

# Tab 1 – Master Agreement

## General Terms and Conditions

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- ◆ Customer Support
  - The vendor shall provide timely and accurate technical advice and sales support. The vendor shall respond to such requests within one (1) working day after receipt of the request.
- ◆ Disclosures
  - Respondent affirms that he/she has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor or service to a public servant in connection with this contract.
  - The respondent affirms that, to the best of his/her knowledge, the offer has been arrived at independently, and is submitted without collusion with anyone to obtain information or gain any favoritism that would in any way limit competition or give an unfair advantage over other vendors in the award of this contract.
- ◆ Renewal of Contract
  - Unless otherwise stated, all contracts are for a period of three (3) years with an option to renew for up to two (2) additional one-year terms or any combination of time equally not more than 2 years if agreed to by Region 14 ESC and the vendor.
- ◆ Funding Out Clause
  - Any/all contracts exceeding one (1) year shall include a standard “funding out” clause. A contract for the acquisition, including lease, of real or personal property is a commitment of the entity’s current revenue only, provided the contract contains either or both of the following provisions:
  - Retains to the entity the continuing right to terminate the contract at the expiration of each budget period during the term of the contract and is conditioned on a best efforts attempt by the entity to obtain appropriate funds for payment of the contract.
- ◆ Shipments (if applicable)
  - The awarded vendor shall ship ordered products within seven (7) working days for goods available and within four (4) to six (6) weeks for specialty items after the receipt of the order unless modified. If a product cannot be shipped within that time, the awarded vendor shall notify the entity placing the order as to why the product has not shipped and shall provide an estimated shipping date. At this point the participating entity may cancel the order if estimated shipping time is not acceptable.
- ◆ Tax Exempt Status
  - Since this is a national contract, knowing the tax laws in each state is the sole responsibility of the vendor.

◆ Payments

- The entity using the contract will make payments directly to the awarded vendor or their affiliates (distributors/business partners/resellers) as long as written request and approval by NCPA is provided to the awarded vendor.

◆ Adding authorized distributors/dealers

- Awarded vendors may submit a list of distributors/partners/resellers to sell under their contract throughout the life of the contract. Vendor must receive written approval from NCPA before such distributors/partners/resellers considered authorized.
- Purchase orders and payment can only be made to awarded vendor or distributors/business partners/resellers previously approved by NCPA.
- Pricing provided to members by added distributors or dealers must also be less than or equal to the pricing offered by the awarded contract holder.
- All distributors/partners/resellers are required to abide by the Terms and Conditions of the vendor's agreement with NCPA.

◆ Pricing

- All pricing submitted shall include the administrative fee to be remitted to NCPA by the awarded vendor. It is the awarded vendor's responsibility to keep all pricing up to date and on file with NCPA.
- All deliveries shall be freight prepaid, F.O.B. destination and shall be included in all pricing offered unless otherwise clearly stated in writing

◆ Warranty

- Proposal should address the following warranty information:
  - Applicable warranty and/or guarantees of equipment and installations including any conditions and response time for repair and/or replacement of any components during the warranty period.
  - Availability of replacement parts
  - Life expectancy of equipment under normal use
  - Detailed information as to proposed return policy on all equipment
- Products
  - Vendor shall provide equipment, materials and products that are new unless otherwise specified, of good quality and free of defects
- Construction
  - Vendor shall perform services in a good and workmanlike manner and in accordance with industry standards for the service provided.

◆ Safety

- Vendors performing services shall comply with occupational safety and health rules and regulations. Also all vendors and subcontractors shall be held responsible for the safety of their employees and any conditions that may cause injury or damage to persons or property.

◆ Permits

- Since this is a national contract, knowing the permit laws in each state is the sole responsibility of the vendor.

◆ Indemnity

- The awarded vendor shall protect, indemnify, and hold harmless Region 14 ESC and its participants, administrators, employees and agents against all claims, damages, losses and expenses arising out of or resulting from the actions of the vendor, vendor employees or vendor subcontractors in the preparation of the solicitation and the later execution of the contract.

◆ Franchise Tax

- The respondent hereby certifies that he/she is not currently delinquent in the payment of any franchise taxes.

◆ Supplemental Agreements

- The entity participating in this contract and awarded vendor may enter into a separate supplemental agreement to further define the level of service requirements over and above the minimum defined in this contract i.e. invoice requirements, ordering requirements, specialized delivery, etc. Any supplemental agreement developed as a result of this contract is exclusively between the participating entity and awarded vendor.

◆ Certificates of Insurance

- Certificates of insurance shall be delivered to the Public Agency prior to commencement of work. The insurance company shall be licensed in the applicable state in which work is being conducted. The awarded vendor shall give the participating entity a minimum of ten (10) days notice prior to any modifications or cancellation of policies. The awarded vendor shall require all subcontractors performing any work to maintain coverage as specified.

◆ Legal Obligations

- It is the Respondent's responsibility to be aware of and comply with all local, state, and federal laws governing the sale of products/services identified in this RFP and any awarded contract and shall comply with all while fulfilling the RFP. Applicable laws and regulation must be followed even if not specifically identified herein.

◆ Protest

- A protest of an award or proposed award must be filed in writing within ten (10) days from the date of the official award notification and must be received by 5:00 pm CST. Protests shall be filed with Region 14 ESC and shall include the following:
  - Name, address and telephone number of protester
  - Original signature of protester or its representative
  - Identification of the solicitation by RFP number
  - Detailed statement of legal and factual grounds including copies of relevant documents and the form of relief requested

- Any protest review and action shall be considered final with no further formalities being considered.

#### ◆ Force Majeure

- If by reason of Force Majeure, either party hereto shall be rendered unable wholly or in part to carry out its obligations under this Agreement then such party shall give notice and full particulars of Force Majeure in writing to the other party within a reasonable time after occurrence of the event or cause relied upon, and the obligation of the party giving such notice, so far as it is affected by such Force Majeure, shall be suspended during the continuance of the inability then claimed, except as hereinafter provided, but for no longer period, and such party shall endeavor to remove or overcome such inability with all reasonable dispatch.
- The term Force Majeure as employed herein, shall mean acts of God, strikes, lockouts, or other industrial disturbances, act of public enemy, orders and regulation of any kind of government of the United States or any civil or military authority; insurrections; riots; epidemics; landslides; lighting; earthquake; fires; hurricanes; storms; floods; washouts; droughts; arrests; restraint of government and people; civil disturbances; explosions, breakage or accidents to machinery, pipelines or canals, or other causes not reasonably within the control of the party claiming such inability. It is understood and agreed that the settlement of strikes and lockouts shall be entirely within the discretion of the party having the difficulty, and that the above requirement that any Force Majeure shall be remedied with all reasonable dispatch shall not require the settlement of strikes and lockouts by acceding to the demands of the opposing party or parties when such settlement is unfavorable in the judgment of the party having the difficulty

#### ◆ Prevailing Wage

- It shall be the responsibility of the Vendor to comply, when applicable, with the prevailing wage legislation in effect in the jurisdiction of the purchaser. It shall further be the responsibility of the Vendor to monitor the prevailing wage rates as established by the appropriate department of labor for any increase in rates during the term of this contract and adjust wage rates accordingly.

#### ◆ Termination

- Either party may cancel this contract in whole or in part by providing written notice. The cancellation will take effect 30 business days after the other party receives the notice of cancellation. After the 30th business day all work will cease following completion of final purchase order.

#### ◆ Open Records Policy

- Because Region 14 ESC is a governmental entity responses submitted are subject to release as public information after contracts are executed. If a vendor believes that its response, or parts of its response, may be exempted from disclosure, the vendor must specify page-by-page and line-by-line the parts of the response, which it believes, are exempt. In addition,



the respondent must specify which exception(s) are applicable and provide detailed reasons to substantiate the exception(s).

- The determination of whether information is confidential and not subject to disclosure is the duty of the Office of Attorney General (OAG). Region 14 ESC must provide the OAG sufficient information to render an opinion and therefore, vague and general claims to confidentiality by the respondent are not acceptable. Region 14 ESC must comply with the opinions of the OAG. Region 14 ESC assumes no responsibility for asserting legal arguments on behalf of any vendor. Respondent are advised to consult with their legal counsel concerning disclosure issues resulting from this procurement process and to take precautions to safeguard trade secrets and other proprietary information.

# Process

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Region 14 ESC will evaluate proposals in accordance with, and subject to, the relevant statutes, ordinances, rules, and regulations that govern its procurement practices. NCPA will assist Region 14 ESC in evaluating proposals. Award(s) will be made to the prospective vendor whose response is determined to be the most advantageous to Region 14 ESC, NCPA, and its participating agencies. To qualify for evaluation, response must have been submitted on time, and satisfy all mandatory requirements identified in this document.

- ◆ Contract Administration
  - The contract will be administered by Region 14 ESC. The National Program will be administered by NCPA on behalf of Region 14 ESC.
- ◆ Contract Term
  - The contract term will be for three (3) year starting from the date of the award. The contract may be renewed for up to two (2) additional one-year terms or any combination of time equally not more than 2 years.
  - It should be noted that maintenance/service agreements may be issued for up to (5) years under this contract even if the contract only lasts for the initial term of the contract. NCPA will monitor any maintenance agreements for the term of the agreement provided they are signed prior to the termination or expiration of this contract.
- ◆ Contract Waiver
  - Any waiver of any provision of this contract shall be in writing and shall be signed by the duly authorized agent of Region 14 ESC. The waiver by either party of any term or condition of this contract shall not be deemed to constitute waiver thereof nor a waiver of any further or additional right that such party may hold under this contract.
- ◆ Products and Services additions
  - Products and Services may be added to the resulting contract during the term of the contract by written amendment, to the extent that those products and services are within the scope of this RFP.
- ◆ Competitive Range
  - It may be necessary for Region 14 ESC to establish a competitive range. Responses not in the competitive range are unacceptable and do not receive further award consideration.
- ◆ Deviations and Exceptions
  - Deviations or exceptions stipulated in response may result in disqualification. It is the intent of Region 14 ESC to award a vendor's complete line of products and/or services, when possible.
- ◆ Estimated Quantities
  - The estimated dollar volume of Products and Services purchased under the proposed Master Agreement is \$30 million dollars annually. This estimate is based on the anticipated volume of Region 14 ESC and current sales within the NCPA program. There is no guarantee or commitment of any kind regarding usage of any contracts resulting from this solicitation

◆ Evaluation

- Region 14 ESC will review and evaluate all responses in accordance with, and subject to, the relevant statutes, ordinances, rules and regulations that govern its procurement practices. NCPA will assist the lead agency in evaluating proposals. Recommendations for contract awards will be based on multiple factors, each factor being assigned a point value based on its importance.

◆ Formation of Contract

- A response to this solicitation is an offer to contract with Region 14 ESC based upon the terms, conditions, scope of work, and specifications contained in this request. A solicitation does not become a contract until it is accepted by Region 14 ESC. The prospective vendor must submit a signed Signature Form with the response thus, eliminating the need for a formal signing process. Contract award letter issued by Region 14 ESC is the counter-signature document establishing acceptance of the contract.

◆ NCPA Administrative Agreement

- The vendor will be required to enter and execute the National Cooperative Purchasing Alliance Administration Agreement with NCPA upon award with Region 14 ESC. The agreement establishes the requirements of the vendor with respect to a nationwide contract effort.

◆ Clarifications / Discussions

- Region 14 ESC may request additional information or clarification from any of the respondents after review of the proposals received for the sole purpose of elimination minor irregularities, informalities, or apparent clerical mistakes in the proposal. Clarification does not give respondent an opportunity to revise or modify its proposal, except to the extent that correction of apparent clerical mistakes results in a revision. After the initial receipt of proposals, Region 14 ESC reserves the right to conduct discussions with those respondent's whose proposals are determined to be reasonably susceptible of being selected for award. Discussions occur when oral or written communications between Region 14 ESC and respondent's are conducted for the purpose clarifications involving information essential for determining the acceptability of a proposal or that provides respondent an opportunity to revise or modify its proposal. Region 14 ESC will not assist respondent bring its proposal up to the level of other proposals through discussions. Region 14 ESC will not indicate to respondent a cost or price that it must meet to neither obtain further consideration nor will it provide any information about other respondents' proposals or prices.

◆ Multiple Awards

- Multiple Contracts may be awarded as a result of the solicitation. Multiple Awards will ensure that any ensuing contracts fulfill current and future requirements of the diverse and large number of participating public agencies.

◆ Past Performance

- Past performance is relevant information regarding a vendor's actions under previously awarded contracts; including the administrative aspects of performance; the vendor's

history of reasonable and cooperative behavior and commitment to customer satisfaction; and generally, the vendor's businesslike concern for the interests of the customer.

## Evaluation Criteria

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- ◆ Pricing (40 points)
  - Electronic Price Lists
    - Products, Services, Warranties, etc. price list
    - Prices listed will be used to establish both the extent of a vendor's product lines, services, warranties, etc. available from a particular bidder and the pricing per item.
- ◆ Ability to Provide and Perform the Required Services for the Contract (25 points)
  - Product Delivery within participating entities specified parameters
  - Number of line items delivered complete within the normal delivery time as a percentage of line items ordered.
  - Vendor's ability to perform towards above requirements and desired specifications.
  - Past Cooperative Program Performance
  - Quantity of line items available that are commonly purchased by the entity.
  - Quality of line items available compared to normal participating entity standards.
- ◆ References and Experience (20 points)
  - A minimum of ten (10) customer references for product and/or services of similar scope dating within past 3 years
  - Respondent Reputation in marketplace
  - Past Experience working with public sector.
  - Exhibited understanding of cooperative purchasing
- ◆ Value Added Products/Services Description, (8 points)
  - Additional Products/Services related to the scope of RFP
  - Marketing and Training
  - Minority and Women Business Enterprise (MWBE) and (HUB) Participation
  - Customer Service
- ◆ Technology for Supporting the Program (7 points)
  - Electronic on-line catalog, order entry use by and suitability for the entity's needs
  - Quality of vendor's on-line resources for NCPA members.
  - Specifications and features offered by respondent's products and/or services



# Signature Form

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The undersigned hereby proposes and agrees to furnish goods and/or services in strict compliance with the terms, specifications and conditions at the prices proposed within response unless noted in writing. The undersigned further certifies that he/she is an officer of the company and has authority to negotiate and bind the company named below and has not prepared this bid in collusion with any other Respondent and that the contents of this proposal as to prices, terms or conditions of said bid have not been communicated by the undersigned nor by any employee or agent to any person engaged in this type of business prior to the official opening of this proposal.

Prices are guaranteed: **120 days**

Company name **Fairway Holdings Inc. dba oasis-berco**

Address **111 Winnebago St.**

City/State/Zip **St Louis, MO. 63118**

Telephone No. **888-772-4788**

Fax No. **888-772-4789**

Email address **jfrancosky@bercotables.com**

Printed name **John Francosky**

Position with company **Executive Vice President sales/marketing**

Authorized signature

A large, stylized handwritten signature in black ink, appearing to read 'John Francosky', is written over the signature line and extends downwards into the space below.

## Tab 2 – NCPA Administration Agreement

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This Administration Agreement is made as of April 19, 2022, by and between National Cooperative Purchasing Alliance ("NCPA") and Oasis-berco ("Vendor").

### Recitals

WHEREAS, Region 14 ESC has entered into a certain Master Agreement dated April 19, 2022, referenced as Contract Number 07-68, by and between Region 14 ESC and Vendor, as may be amended from time to time in accordance with the terms thereof (the "Master Agreement"), for the purchase of Privacy Pods / Furniture Booths;

WHEREAS, said Master Agreement provides that any state, city, special district, local government, school district, private K-12 school, technical or vocational school, higher education institution, other government agency or nonprofit organization (hereinafter referred to as "public agency" or collectively, "public agencies") may purchase products and services at the prices indicated in the Master Agreement;

WHEREAS, NCPA has the administrative and legal capacity to administer purchases under the Master Agreement to public agencies;

WHEREAS, NCPA serves as the administrative agent for Region 14 ESC in connection with other master agreements offered by NCPA

WHEREAS, Region 14 ESC desires NCPA to proceed with administration of the Master Agreement;

WHEREAS, NCPA and Vendor desire to enter into this Agreement to make available the Master Agreement to public agencies on a national basis;

NOW, THEREFORE, in consideration of the payments to be made hereunder and the mutual covenants contained in this Agreement, NCPA and Vendor hereby agree as follows:

#### ◆ General Terms and Conditions

- The Master Agreement, attached hereto as Tab 1 and incorporated herein by reference as though fully set forth herein, and the terms and conditions contained therein shall apply to this Agreement except as expressly changed or modified by this Agreement.
- NCPA shall be afforded all of the rights, privileges and indemnifications afforded to Region 14 ESC under the Master Agreement, and such rights, privileges and indemnifications shall accrue and apply with equal effect to NCPA under this Agreement including, but not limited to, the Vendor's obligation to provide appropriate insurance and certain indemnifications to Region 14 ESC.
- Vendor shall perform all duties, responsibilities and obligations required under the Master Agreement in the time and manner specified by the Master Agreement.
- NCPA shall perform all of its duties, responsibilities, and obligations as administrator of purchases under the Master Agreement as set forth herein, and Vendor acknowledges that NCPA shall act in the capacity of administrator of purchases under the Master Agreement.
- With respect to any purchases made by Region 14 ESC or any Public Agency pursuant to the Master Agreement, NCPA (a) shall not be construed as a dealer, re-marketer, representative, partner, or agent of any type of Vendor, Region 14 ESC, or such Public Agency, (b) shall not be obligated, liable or responsible (i) for any orders made by Region

14 ESC, any Public Agency or any employee of Region 14 ESC or Public Agency under the Master Agreement, or (ii) for any payments required to be made with respect to such order, and (c) shall not be obligated, liable or responsible for any failure by the Public Agency to (i) comply with procedures or requirements of applicable law, or (ii) obtain the due authorization and approval necessary to purchase under the Master Agreement. NCPA makes no representations or guaranties with respect to any minimum purchases required to be made by Region 14 ESC, any Public Agency, or any employee of Region 14 ESC or Public Agency under this Agreement or the Master Agreement.

- The Public Agency participating in the NCPA contract and Vendor may enter into a separate supplemental agreement to further define the level of service requirements over and above the minimum defined in this contract i.e. invoice requirements, ordering requirements, specialized delivery, etc. Any supplemental agreement developed as a result of this contract is exclusively between the Public Agency and Vendor. NCPA, its agents, members and employees shall not be made party to any claim for breach of such agreement.

◆ **Term of Agreement**

- This Agreement shall be in effect so long as the Master Agreement remains in effect, provided, however, that the obligation to pay all amounts owed by Vendor to NCPA through the termination of this Agreement and all indemnifications afforded by Vendor to NCPA shall survive the term of this Agreement.

◆ **Fees and Reporting**

- The awarded vendor shall electronically provide NCPA with a detailed quarterly report showing the dollar volume of all sales under the contract for the previous quarter. Reports are due on the fifteenth (15<sup>th</sup>) day after the close of the previous quarter. It is the responsibility of the awarded vendor to collect and compile all sales under the contract from participating members and submit one (1) report. The report shall include at least the following information as listed in the example below:

Entity Name	Zip Code	State	PO or Job #	Sale Amount

**Total** \_\_\_\_\_

- Each quarter NCPA will invoice the vendor based on the total of sale amount(s) reported. From the invoice the vendor shall pay to NCPA an administrative fee based upon the tiered fee schedule below. Vendor's annual sales shall be measured on a calendar year basis. Deadline for term of payment will be included in the invoice NCPA provides.

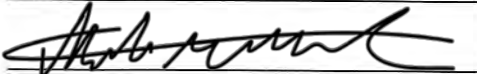
<u>Annual Sales Through Contract</u>	<u>Administrative Fee</u>
0 - \$30,000,000	2%
\$30,000,001 - \$50,000,000	1.5%
\$50,000,001+	1%

- Supplier shall maintain an accounting of all purchases made by Public Agencies under the Master Agreement. NCPA and Region 14 ESC reserve the right to audit the accounting for a period of four (4) years from the date NCPA receives the accounting. In the event of such an audit, the requested materials shall be provided at the location designated by Region 14 ESC or NCPA. In the event such audit reveals an under reporting of Contract Sales and a resulting underpayment of administrative fees, Vendor shall promptly pay NCPA the amount of such underpayment, together with interest on such amount and shall be obligated to reimburse NCPA's costs and expenses for such audit.

◆ General Provisions

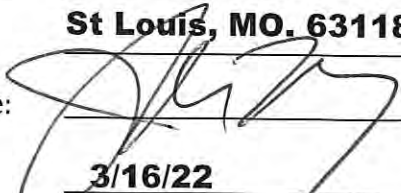
- This Agreement supersedes any and all other agreements, either oral or in writing, between the parties hereto with respect to the subject matter hereof, and no other agreement, statement, or promise relating to the subject matter of this Agreement which is not contained herein shall be valid or binding.
- Awarded vendor agrees to allow NCPA to use their name and logo within website, marketing materials and advertisement. Any use of NCPA name and logo or any form of publicity regarding this contract by awarded vendor must have prior approval from NCPA.
- If any action at law or in equity is brought to enforce or interpret the provisions of this Agreement or to recover any administrative fee and accrued interest, the prevailing party shall be entitled to reasonable attorney's fees and costs in addition to any other relief to which such party may be entitled.
- Neither this Agreement nor any rights or obligations hereunder shall be assignable by Vendor without prior written consent of NCPA, provided, however, that the Vendor may, without such written consent, assign this Agreement and its rights and delegate its obligations hereunder in connection with the transfer or sale of all or substantially all of its assets or business related to this Agreement, or in the event of its merger, consolidation, change in control or similar transaction. Any permitted assignee shall assume all assigned obligations of its assignor under this Agreement.
- This Agreement and NCPA's rights and obligations hereunder may be assigned at NCPA's sole discretion, to an existing or newly established legal entity that has the authority and capacity to perform NCPA's obligations hereunder
- All written communications given hereunder shall be delivered to the addresses as set forth below.

**National Cooperative Purchasing Alliance:**

Name: Matthew Mackel  
Title: Director, Business Development  
Address: PO Box 701273  
Houston, TX 77270  
Signature:   
Date: April 19, 2022

**Vendor:**

**Oasis-Berco**

Name: John Francosky  
Title: **Executive Vice President**  
Address: **111 Winnebago St**  
**St Louis, MO, 63118**  
Signature:   
Date: **3/16/22**



## Tab 3 – Vendor Questionnaire

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Please provide responses to the following questions that address your company's operations, organization, structure, and processes for providing products and services.

♦ States Covered

- Bidder must indicate any and all states where products and services can be offered.
- Please indicate the price co-efficient for each state if it varies.

☒ **50 States & District of Columbia** (Selecting this box is equal to checking all boxes below)

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Alabama              | <input type="checkbox"/> Maryland       | <input type="checkbox"/> South Carolina |
| <input type="checkbox"/> Alaska               | <input type="checkbox"/> Massachusetts  | <input type="checkbox"/> South Dakota   |
| <input type="checkbox"/> Arizona              | <input type="checkbox"/> Michigan       | <input type="checkbox"/> Tennessee      |
| <input type="checkbox"/> Arkansas             | <input type="checkbox"/> Minnesota      | <input type="checkbox"/> Texas          |
| <input type="checkbox"/> California           | <input type="checkbox"/> Mississippi    | <input type="checkbox"/> Utah           |
| <input type="checkbox"/> Colorado             | <input type="checkbox"/> Missouri       | <input type="checkbox"/> Vermont        |
| <input type="checkbox"/> Connecticut          | <input type="checkbox"/> Montana        | <input type="checkbox"/> Virginia       |
| <input type="checkbox"/> Delaware             | <input type="checkbox"/> Nebraska       | <input type="checkbox"/> Washington     |
| <input type="checkbox"/> District of Columbia | <input type="checkbox"/> Nevada         | <input type="checkbox"/> West Virginia  |
| <input type="checkbox"/> Florida              | <input type="checkbox"/> New Hampshire  | <input type="checkbox"/> Wisconsin      |
| <input type="checkbox"/> Georgia              | <input type="checkbox"/> New Jersey     | <input type="checkbox"/> Wyoming        |
| <input type="checkbox"/> Hawaii               | <input type="checkbox"/> New Mexico     |   |
| <input type="checkbox"/> Idaho                | <input type="checkbox"/> New York       |   |
| <input type="checkbox"/> Illinois             | <input type="checkbox"/> North Carolina |   |
| <input type="checkbox"/> Indiana              | <input type="checkbox"/> North Dakota   |   |
| <input type="checkbox"/> Iowa                 | <input type="checkbox"/> Ohio           |   |
| <input type="checkbox"/> Kansas               | <input type="checkbox"/> Oklahoma       |   |
| <input type="checkbox"/> Kentucky             | <input type="checkbox"/> Oregon         |   |
| <input type="checkbox"/> Louisiana            | <input type="checkbox"/> Pennsylvania   |   |
| <input type="checkbox"/> Maine                | <input type="checkbox"/> Rhode Island   |   |

☐ **All US Territories and Outlying Areas** (Selecting this box is equal to checking all boxes below)

☐ American Samoa

☐ Northern Mariana Islands

☐ Federated States of Micronesia

☐ Puerto Rico

☐ Guam

☐ U.S. Virgin Islands

☐ Midway Islands

♦ **Minority and Women Business Enterprise (MWBE) and (HUB) Participation**

- It is the policy of some entities participating in NCPA to involve minority and women business enterprises (MWBE) and historically underutilized businesses (HUB) in the purchase of goods and services. Respondents shall indicate below whether or not they are an M/WBE or HUB certified.

▪ **Minority / Women Business Enterprise**

- Respondent Certifies that this firm is a M/WBE ☐

▪ **Historically Underutilized Business**

- Respondent Certifies that this firm is a HUB ☐

♦ **Residency**

- Responding Company's principal place of business is in the city of **St Louis**,  
State of **Missouri**

♦ **Felony Conviction Notice**

- Please Check Applicable Box;

☒ A publically held corporation; therefore, this reporting requirement is not applicable.

☐ Is not owned or operated by anyone who has been convicted of a felony.

☐ Is owned or operated by the following individual(s) who has/have been convicted of a felony

- If the 3<sup>rd</sup> box is checked, a detailed explanation of the names and convictions must be attached.

♦ **Distribution Channel**

- Which best describes your company's position in the distribution channel:

☐ Manufacturer Direct

☐ Certified education/government reseller

☒ Authorized Distributor

☐ Manufacturer marketing through reseller

☐ Value-added reseller

☐ Other: \_\_\_\_\_

♦ **Processing Information**

- Provide company contact information for the following:

▪ **Sales Reports / Accounts Payable**

Contact Person: **Denise Cason**

Title: **Manager Customer Service**

Company: **Oasis-berco**

Address: **111 Winnebago St**

City: **St Louis** State: **MO** Zip: **63118**

Phone: **314-222-0757** Email: **dcason@bercotables.com**

▪ Purchase Orders

Contact Person: **same as above**  
Title: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Email: \_\_\_\_\_

▪ Sales and Marketing

Contact Person: **John Francosky**  
Title: **Executive Vice-President**  
Company: **Oasis-berco**  
Address: **111 Winnebago St**  
City: **St Louis** State: **MO** Zip: **63118**  
Phone: **314-757-4117** Email: **jfrancosky@bercotables.com**

♦ Pricing Information

- In addition to the current typical unit pricing furnished herein, the Vendor agrees to offer all future product introductions at prices that are proportionate to Contract Pricing.
  - If answer is no, attach a statement detailing how pricing for NCPA participants would be calculated for future product introductions.

☒ Yes      ☐ No
- Pricing submitted includes the required NCPA administrative fee. The NCPA fee is calculated based on the invoice price to the customer.

☒ Yes      ☐ No



## NCPA TAB 4-VENDOR PROFILE

- Company's official registered name
  - Fairway Holdings Inc. dba Oasis-Berco
- History of Company
  - Fairway Holdings, Inc. was established in 2005 as a Missouri corporation. There are 5 brands that Fairway Holdings markets –
  - Oasis-Berco which is our privacy pod division started in 2019, started as a joint venture between Fairway and Frem Group out of England. We have taken the design concept of the privacy pod from our English partner and adapted it to the U.S. market. In addition, all products for this brand are manufactured in the U.S.
  - Berco Designs (current NCPA Contract holder) Berco Designs was established in 1969 and has been serving the contract furniture industry for nearly 50 years
  - One Source Retail was established in 1998 to provide millwork to retailers. Fairway Holdings, Inc. acquired One Source Retail in early 2005.
  - Walsh & Simmons started in 1975 and is a manufacturer of restaurant furniture. Fairway acquired Walsh in 2015.
  - FG Library & Learning started in 2021 is our division that focuses on furniture for public, University, and k-12 libraries.





- Dun & Bradstreet number
- 195888420
- Organization chart:
  - John Francosky- Vice-President Sales 314-757-4117  
[jfrancosky@bercotables.com](mailto:jfrancosky@bercotables.com)
    - Denise Cason- Contract Specialist 314-222-0757  
[dcason@bercotables.com](mailto:dcason@bercotables.com)
  - Mandy Brown- Customer Service 888-772-4788  
[mbrown@bercotables.com](mailto:mbrown@bercotables.com)
- Location
  - 111 Winnebago St
  - St. Louis, Mo. 63118
- Corporate office locations.
  - See above list
  - In addition, we have 66 independent sales reps that cover the entire U.S. market
- Standard payment terms.
  - 1%15Net 30

111 Winnebago Street Saint Louis, Missouri, USA  
Phone 888.772.4788 Fax 888.772.4789



- Competition in the marketplace.
  - Competition in the Market would be from companies that specialize in privacy pods such as, Framery, Orangebox, Nevins, Hush, and Teknion.

What differentiates your company from competitors?

The key differentiator of our company from our competitors would be the fact that we actually produce our product in the U.S. versus importing it. In addition, we have more variety of models to choose from than anyone else, and have more finish options to choose from. Also, all of our booths are UL Listed products, not just the electrical in the booth, but the entire booth is a UL listed item.

Describe how your company plans to market this contract.

- Press release
- Addition of NCPA email and presentation templates, trade show materials



- Connecting with complementary NCPA partners/contract holders to build better solutions and stronger proposals for NCPA members

Describe how you intend to introduce NCPA to your company.

- Since we already have an NCPA contract for Berco we will notify all of our dealers of the addition of this division to the contract.
- Rep webinar to explain benefits and contract usage
- Direct mail to reps and dealers

Describe your firm's capabilities of your on-line catalog /ordering website.

- Currently we do not offer online ordering, you can specify the product online and price it out, and with our booth builder it will actually render the pod for you. We do not want an end user trying to order this product online as they need the technical expertise of our dealer to get all the information necessary to order this product.

Describe company's Customer Service Department (hours of cooperation, number of service centers)

- Customer service located at 111 Winnebago St. St. Louis MO 63118.
- Toll free phone 888-772-4788 toll free fax 888-772-478.  
Hours of operation 8:00 am- 4:30PM CST



Green Initiatives

See attached documentation

Anti-Discrimination Policy

See attached documentation

Vendor Certificates Attached

W9



organization, periodically you will be given feedback on your performance from your supervisor. Likewise, you should give your supervisor feedback on how you feel about your employment with us. Supervisor feedback can range from casual informal verbal conversations to formal written performance appraisals. These are given at each supervisor's sole discretion. You will receive a formal performance evaluation at the end of the orientation period.

## **EQUAL EMPLOYMENT OPPORTUNITY— DISABILITY AND RELIGIOUS ACCOMMODATION**

We are an Equal Opportunity Employer (EOE). Accordingly, we promote equal opportunity in the areas of recruitment, employment, training, development, transfer, and promotion. Our employment practices are without regard to race, color, religion, creed, sex, age, disability or medical condition, national origin, sexual orientation, veteran status, and all other categories protected by federal, state, and local anti-discrimination laws.

Additionally, in keeping with the spirit of the Americans with Disabilities Act and the religious discrimination provisions of Title VII of the Civil Rights Act, we will make appropriate accommodations for employees with qualified disabilities or religious needs whenever possible as long as the accommodation does not cause Fairway Holdings, Inc. or other employees' undue hardship.

## **DISABILITY ACCOMMODATION**

If you require accommodation for a medical condition or disability, contact your supervisor or the VP of Human Resources so that we can evaluate if and how we may accommodate your needs. We will make every effort to handle your request for disability accommodation sensitively and to protect the confidentiality of the information you share with us whenever possible.

---

## RELIGIOUS ACCOMMODATION

If possible, we will allow time off without pay to observe religious holidays that are not otherwise company holidays. Requests for time off for bona fide religious observances will be considered on a case-by-case basis. So that we can reasonably accommodate your request, you must notify your supervisor of your request to take time off to observe a religious holiday at least **three weeks** before the date of your planned absence. If vacation time is available, you may use it for the observance of such holidays, otherwise, such time off is without pay.

***NOTE: This policy applies only to religious holidays. It does not apply to regular weekly days of worship. If an employee's regular work schedule falls on his/her worship days, generally he/she will be required to work as scheduled. Questions regarding work schedule/worship day conflicts should be directed to the VP of Human Resources.***

## REPORTING DISCRIMINATION

If you feel that you are a victim of discrimination **immediately** report it to the VP of Human Resources, even if you have discussed it directly with the individual(s) involved. Please provide the following information when reporting discrimination.

- 1) Date(s), time(s), and location(s) of the incident/incidences that took place;
- 2) Description of each incident: e.g., was any physical contact made? what was said and/or done? etc.;
- 3) Name(s) of anyone present during each incident; and,
- 4) Anyone with whom you've discussed the incident/incidences.

All complaints of discrimination will be investigated and the results of the investigation will be reported to the complaining party. Investigation of a discrimination complaint may include, but is not limited to, interviewing the complaining party as well as other employees and/or customers necessary to obtain sufficient information upon which to make an assessment of the situation. While we will make every effort to be sensitive to

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privacy issues, in the course of an investigation we will discuss relevant information with appropriate parties on a need-to-know-basis.

**Retaliation against an employee who complains of discrimination is strictly prohibited and will not be tolerated.**

We are committed to investigating and correcting any form of discrimination taking place in our company. We are committed to addressing these issues within our organization, and we believe we can effectively address such matters internally when employees advise us of a problem in this area.

**EMPLOYEES WITH LIFE-THREATENING ILLNESSES**

Employees with life-threatening illnesses such as cancer, heart disease, and AIDS often are able to continue working with minimal impact on the workplace. We support the efforts of such employees and will provide reasonable accommodation whenever possible as long as the employee is able to perform his or her essential job functions.

**DISCLOSURE OF MEDICAL INFORMATION**

Medical information is considered confidential. We will make every effort to maintain the confidentiality of medical information divulged to us, however, we cannot guarantee absolute confidentiality when such information is shared with other than the VP of Human Resources. Supervisors, managers, and employees are expected to respect the sensitivity of medical information and to maintain confidentiality when they become privy to such information. Employees who disclose confidential medical information about another employee are subject to corrective action up to and including termination of employment.

# Request for Taxpayer Identification Number and Certification

Give Form to the  
requester. Do not  
send to the IRS.

► Go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9) for instructions and the latest information.

Print or type. See Specific Instructions on page 3.	<b>1</b> Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. <b>Fairway Holdings, Inc</b>	
	<b>2</b> Business name/disregarded entity name, if different from above <b>Oasis Berco</b>	
	<b>3</b> Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only <b>one</b> of the following seven boxes. <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ► <b>Note:</b> Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is <b>not</b> disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner. <input type="checkbox"/> Other (see instructions) ►	
	<b>4</b> Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <small>(Applies to accounts maintained outside the U.S.)</small>	
	<b>5</b> Address (number, street, and apt. or suite no.) See instructions. <b>111 Winnebago Street</b>	Requester's name and address (optional)
	<b>6</b> City, state, and ZIP code <b>St. Louis, MO 63118</b>	
	<b>7</b> List account number(s) here (optional)	

## Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

**Note:** If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.


<b>Social security number</b>									
			-				-		
<b>or</b>									
<b>Employer identification number</b>									
2	0	-	2	5	1	6	2	0	8

## Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

<b>Sign Here</b>	<b>Signature of U.S. person ►</b> 	<b>Date ►</b> 1/26/21
------------------	--	--------------------------

## General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9).

## Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.

# LEED® SPECIFICATION SHEET

## FORMICA® BRAND LAMINATE GRADES 10, 12 & 20



### Project information

Project name

LEED version

### Formica® Brand product information

Product Square feet of product  
**Grade 10 General Purpose (HGS)** 0

**Grade 12 Horizontal Postforming (HGP)**

**Grade 20 Vertical Postforming (VGP)**

Name(s) Material price per square feet  
 0

Number(s)

### LEED credit information

<b>MR Credit 2</b> Construction waste management	Formica® Brand products can be specified to use recyclable packing materials or blanket wraps for delivery. <b>Points: 1 or 2</b> (50% or 75% waste diversion)	Formica® Brand products can indirectly contribute to this credit. There are no additional Formica® sheets that are required to upload for this credit.
<b>MR Credit 4</b> Recycled content	<b>Grade 10 General Purpose (HGS): 9% recycled content</b> 0% pre-consumer / post Industrial Content 9.0% post-consumer content <hr/> <b>Grade 12 Horizontal Postforming (HGP): 11% recycled content</b> 0% pre-consumer / post Industrial content 11% post-consumer content <hr/> <b>Grade 20 Vertical Postforming (VGP): 14% recycled content</b> 0% pre-consumer / post industrial content 14% post-consumer content <hr/> <b>Points: 1 or 2</b> (10% or 20% project recycled content)	Additional information can be downloaded <a href="#">here</a> .
<b>MR Credit 5</b> Regional materials	Manufactured in Evendale, Ohio 45241 or St. Jean Sur Richelieu, Quebec, J3B 6E9, Canada. <b>Points: 1 or 2</b> (requirements vary per LEED version)	See Formica MR Credit 5 template <a href="#">here</a> .
<b>MR Credit 6</b> Rapidly renewable materials	Formica® Brand products contain a weighted average of 6.5% on Grades 10, 12 and 20 using rapidly renewable eucalyptus wood. <b>Points: 1</b> (Based on 2.5% of all building materials)	Upload this sheet for credit compliance.
<b>MR Credit 7</b> Certified wood	Certification number SCS-CoC-003270 Formica® Brand products comply with FSC requirements <b>Points: 1</b> (50% project certified wood)	Chain of custody certificate can be downloaded <a href="#">here</a> .
<b>IEQ Credit 3.2</b> Construction indoor air quality management plan-before occupancy	Formica® Brand products are GREENGUARD certified for air quality & do not attract or store emissions from other materials. <b>Points: 1</b> (Based on flush-out or testing procedures)	Formica® Brand products can indirectly contribute to this credit. There are no additional Formica sheets that are required to upload for this credit.

**LEED® SPECIFICATION SHEET**  
**FORMICA® BRAND LAMINATE GRADES 10, 12 & 20 CONTINUED**



**IEQ Credit 4.1**

Low-emitting materials—  
adhesives & sealants

GREENGUARD Indoor Air Quality Certification for Children  
& Schools.

**Points: 1** (Based on SCAQMD Rule 1168 compliance)

GREENGUARD certificate can be downloaded [here](#).

**IEQ Credit 4.4**

Low-emitting materials—composite wood  
& agrifiber products

Laminate adhesives & substrates that support Formica®  
Brand products must not contain added urea-formaldehyde

**Points: 1** (No added urea-formaldehyde)

Credit does not affect Formica® Brand products  
directly. GREENGUARD certificate can be  
downloaded [here](#).

**IEQ Credit 4.5**

Low-emitting materials—  
systems furniture & seating

GREENGUARD Indoor Air Quality Certification for Children  
& Schools.

**Points: 1** (GREENGUARD Certification)

GREENGUARD certificate can be downloaded [here](#).

©2015 **FORMICA CORPORATION**

Cincinnati, Ohio 45241

Printed in the USA, August 2015



**SCS Global Services** does hereby certify that an independent audit has been completed and conformity to the applicable standard(s) has been confirmed for:

## Roseburg Forest Products

3660 Gateway Street, Springfield, OR 97477, United States

Additional certified locations are listed in an addendum to this certificate.

The multisite certificate covers the production of logs, veneer, plywood, particleboard, MDF, wood chips, and thermal fused laminated panels using the transfer, credit and percentage systems.

The certificate also covers a due diligence system for the control of wood sourced from:

Canada: British Columbia, Alberta, Saskatchewan, Eastern Ontario, and Western Quebec

USA: California, Oregon, Washington, Colorado, Idaho, Montana, Wyoming, Texas, Arkansas, Oklahoma, Alabama, Mississippi, Florida, and Louisiana, Southern and Western Alabama, Southern Arkansas, Louisiana, Mississippi, Southeastern Oklahoma, and East Texas, Georgia, Tennessee, Kentucky.

This certificate also covers the sale of FSC Controlled Wood and the sourcing of pre-consumer reclaimed material.

The facility(s) are hereby Chain of Custody certified to sell products as:

### FSC 100%, FSC Mix, FSC Controlled Wood

The assessment has been conducted by SCS Global Services in accordance with the protocols of the Forest Stewardship Council® A.C. (FSC®).

FSC Standard: FSC-STD-40-003 V2-1; FSC-STD-40-004 V3-0; FSC-STD-40-005 V3-1; FSC-STD-40-007 V2-0; FSC-STD-50-001 V2-0

Certificate Code: SCS-COC-000300 Trademark License Code: FSC-C017580

CW Code: SCS-CW-000300

Valid from: 16 April 2018 Expiry date: 15 April 2023

This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified (or FSC Controlled Wood where applicable). Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on sales and delivery documents. The scope of this certificate is considered accurate on the date of issuance. The current validity and scope, including the full list of products, shall be verified on <http://info.fsc.org>. The certificate shall remain the property of SCS, and this certificate and all copies or reproductions of this certificate shall be returned to SCS immediately upon request.



The mark of  
responsible forestry



A handwritten signature in black ink, reading 'Sarah B. Harris'.

Sarah Harris, Managing Director  
SCS Global Services

2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA

## ***Certification Addendum***

### **Roseburg Forest Products**

This addendum contains the additionally certified locations approved by **Roseburg Forest Products** to participate in the use of the FSC Chain of Custody Certification.

Certificate Number: (SCS-COC-000300)

#### Additional Locations:

California Veneer - 98 Mill Street, Weed, California 96094  
Riddle Plywood - 3064 Riddle Bypass Road, Riddle, Oregon 97469  
Dillard Plywood - PO Box 1088, Roseburg, Oregon 97470  
Dillard Particleboard\* - PO Box 1088, Roseburg, Oregon 97470  
Coquille Plywood Plant - Cedar Point Road, Coquille, Oregon 97423  
Taylorsville Particleboard\* - Highway 28 West, Taylorsville, Mississippi 39168  
Missoula Particleboard\* - 3300 Raser Road, Missoula, Montana 59806

Scott Timber - 98 Mill Street, Weed, California 96094  
Simsboro Particleboard\* - 486 Duraflake Road, Simsboro, Louisiana 71275  
Medford MDF\* - 2685 N. Pacific Hwy, Medford, Oregon 97501  
Coos Bay Shipping Terminal (CBST) - 66237 Jordan Cove Rd., North Bend, Oregon 97459  
Pembroke MDF - 777 Fiberboard Dr., Pembroke, ON K8A 6W4 Canada  
El Dorado MDF\* - 1165 Del-Tin Hwy, El Dorado, Arkansas 71730

\*Also certified to FSC-STD-40-007



**SCS Global Services** does hereby certify that an independent assessment has been conducted on behalf of:

# Ivekter Inc/ezoBord

6845 Rexwood Rd Unit 7, Mississauga, ON, Canada

For the following product(s):

## Building and Construction Products:

ezoBord PET Acoustical Panel

Includes only uncolored panel option.

HPD Screening Dates: 12/2/2019

Verification # qGE-9270



The product(s) meet(s) all of the necessary qualifications to be certified for the following claim(s):

## Verified Health Product Declaration

This validation conforms to the Health Product Declaration Open Standard, Version 2.1.1 (July 2, 2018).

Products have a complete, basic method, product threshold HPD and have been validated for health hazard warnings using full disclosure at an inventory threshold of 100 ppm (0.01%). HPDC Special Conditions was applied for Mixed Recycled Content.

Registration # SCS-HPD-05900

Valid from: January 3, 2020 to December 2, 2022

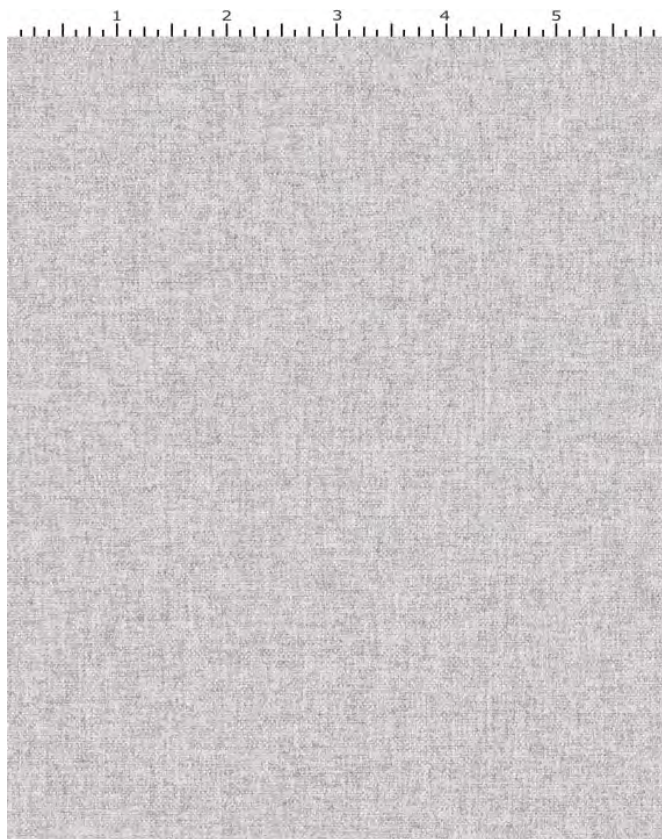


A handwritten signature in black ink that reads "Stanley Mathuram".

Stanley Mathuram, PE, Vice President

SCS Global Services

2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA



#### CLEANING

W: Water-Based Cleaner - Spot clean, using the foam only from a water-based cleaning agent, such as a mild detergent or non-solvent upholstery shampoo product. Apply foam with a soft brush in a circular motion. Always rinse promptly with clean water. Vacuum when dry. Pretest small area before proceeding.

Additional cleaning details at [www.mayerfabrics.com](http://www.mayerfabrics.com)

#### CATEGORY

Upholstery & Panel

#### PROPERTIES



#### CONTENT

100% Polyester

#### BACKING

Polyester

#### FINISH

Stain Repellent - PFOA Free

#### WIDTH

54"

#### WEIGHT

17.2 oz./linear yard

#### SHOWN RAILROADED

No

#### DIRECTIONAL

Yes

#### ROLL LENGTH

50 yards

#### BREAKING STRENGTH

Warp 290/Fill 239

#### SEAM STRENGTH

Warp: 106.1/Fill: 109.2

#### ABRASION RESISTANCE

Passes 100,000 Double Rubs (Wyzenbeek) Multiple factors affect fabric durability and appearance retention, including end-user application and proper maintenance. Wyzenbeek results above 100,000 double rubs have not been shown to be an indicator of increased lifespan.

#### PILLING RESISTANCE

Class 5

#### COLORFASTNESS TO CROCKING

Dry: Class 4 min/Wet: Class 4 min

#### COLORFASTNESS TO LIGHT

40 hours

#### FLAMMABILITY

Passes Cal 117-2013; NFPA 260/UFAC Class 1; ASTM E84 Class 1 or A; May comply with Cal. Tech. Bul. 133 when combined with appropriate components.

**WARRANTY**

Standard Upholstery | '5' Five Year Warranty

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**GREENGUARD**  
GOLD Certified

**GREENGUARD**  
Certified





**Declaration Owner***Vervia Inc.*

325 Corporate Drive  
Elgin IL 60123  
1.847.379.1822  
sales@vervia.net

*Ayrsonics Inc.*

825 Trillium Drive  
Kitchener ON N2R 1J9  
1.844.441.1122  
sales@ayrsonics.com

**Product**

ezoBord PET Acoustical Panel

**Functional Unit**

The functional unit is one square meter of ceiling panel product over a 75-year period

**EPD Number and Period of Validity**

SCS-EPD-05286

EPD Valid January 7, 2019 through January 6, 2024

Version: February 26, 2019

**Product Category Rule**

ISO 21930:2017. Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services.

**Program Operator**

SCS Global Services

2000 Powell Street, Ste. 600, Emeryville, CA 94608

+1.510.452.8000 | [www.SCSglobalServices.com](http://www.SCSglobalServices.com)





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**Disclaimers:** This EPD conforms to ISO 14025, 14040, ISO 14044, and ISO 21930.

**Scope of Results Reported:** The PCR requirements limit the scope of the LCA metrics such that the results exclude environmental and social performance benchmarks and thresholds, and exclude impacts from the depletion of natural resources, land use ecological impacts, ocean impacts related to greenhouse gas emissions, risks from hazardous wastes and impacts linked to hazardous chemical emissions.

**Accuracy of Results:** Due to PCR constraints, this EPD provides estimations of potential impacts that are inherently limited in terms of accuracy.

**Comparability:** The PCR this EPD was based on was not written to support comparative assertions. EPDs based on different PCRs, or different calculation models, may not be comparable. When attempting to compare EPDs or life cycle impacts of products from different companies, the user should be aware of the uncertainty in the final results, due to and not limited to, the practitioner's assumptions, the source of the data used in the study, and the specifics of the product modeled.

In accordance with ISO 21930:2017, EPDs are comparable only if they comply with the core PCR, use the same sub-category PCR where applicable, include all relevant information modules and are based on equivalent scenarios with respect to the context of construction works.

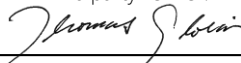
Approved Date: January 7, 2019 – End Date: January 6, 2024

ISO 21930:2017 - serves as the core PCR

Independent verification of the declaration and data, according to ISO 14025:2006.  
ISO 21903:2017 serves as the core PCR

☐ internal ☒ external

Third party verifier:



Tom Gloria, Ph.D., Industrial Ecology Consultants

## 1. About iVekter, Inc.

iVekter is the exclusive manufacturer of ezoBord. Founded in Canada in 2004, iVekter has grown the business worldwide through partnerships with multiple national distribution/fabrication companies dedicated to providing support of the ezoBord brand in the respective markets. Constantly working to be a leader in the acoustics business, iVekter is fully engaged in constant Research & Development, working with Architects, Designers, Dealers, and Engineers to continually evolve the ezoBord material into limitless products and applications.

## 2. Product

### 2.1 Product Description

ezoBord is a new generation high performance acoustical/tackable material. ezoBord offers unlimited design potential to enable architects and designers to redefine and reinvent custom acoustical applications for any space.

### 2.2 Application

ezoBord's PET panels are intended for decorative wall and ceiling acoustical panels, office partitions, acoustic tack boards, visual and acoustical full height privacy barriers and other custom applications for use in commercial interiors.

### 2.3 Technical Data

**Table 1.** Product specifications for the ezoBord Ceiling Panel Products.

Property	Test Method	Test Results	
Building Code Classification	2015 Intl. Building Code Sec. 803.1.1	Class A	
Flame Spread Index	ASTM E84	25	
Smoke Developed Index	ASTM E84	350	
Sound Absorption Coefficient	ASTM C423 (D50 mounting method)	0.76	
Noise Reduction Coefficient	ASTM C423 (D50 mounting method)	0.75	
Fire Growth Rate - FIGRA <sub>0.2MJ</sub> (W/s)	EN 13823:2014	0.00	
Fire Growth Rate - FIGRA <sub>0.4MJ</sub> (W/s)	EN 13823:2015	0.00	
Total Heat Release - THR (MJ)	EN 13823:2016	0.20	
Total Smoke Production - TSP (m <sup>2</sup> )	EN 13823:2017	8.75	
Smoke Growth Rate - SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	EN 13823:2018	0.00	
Lateral Flame Spread - LFS	EN 13823:2019	None	
Flame Spread (30s exposure - surface)	EN ISO 11925-2:2010	F <sub>s</sub>	62.5 m
		Flaming droplets	None
Flame Spread (30s exposure - edge)	EN ISO 11925-2:2010	F <sub>s</sub>	38.3 m
		Flaming droplets	None

## 2.4 Delivery Status

Product dimensions vary by installation. Standard sheet panel dimensions are summarized in Table 2

**Table 2.** ezoBord ceiling panel products dimensions.

Parameter	Value	
Thickness	9 mm (3/8"); standard	12 mm (1/2")
Sheet Dimensions	1,219 mm (48") x 2,440 mm (96)	1,219 mm (48") x 2,750 mm (108")
Thickness	9 mm (3/8"); standard	12 mm (1/2")
Weight/Sheet	3.85 kg (8.5 lb)	7.27 kg (16.0 lb)
Density	1.30 kg/m <sup>2</sup> (0.266 lb/ft <sup>2</sup> )	2.17 kg/m <sup>2</sup> (0.444 lb/ft <sup>2</sup> )

## 2.5 Base Materials

The primary materials include polyester sheet container 50% post-consumer recycled material, and adhesives. Packaging materials consist of plastic wrap and cardboard.

**Table 3.** Material content for the ezoBord ceiling panel products, per square meter.

Component	Material	ezoBord 9mm		ezoBord 12mm	
		(kg/m²)	(%)	(kg/m²)	(%)
Product					
PET sheet / ezoBord	Polyester (50% recycled)	1.1	85%	1.91	88%
ezoTape	Polyurethane tape	0.1	7.70%	0.13	6.10%
PL Construction Adhesive	Acrylic adhesive	0.1	7.70%	0.13	6.10%
Total Product		1.3	100%	2.17	100%
Packaging					
Packaging	Packaging film (LDPE)	0.1	25%	0.1	25%
Packaging	Bubble wrap (PUR)	5.0x10 <sup>-2</sup>	13%	5.0x10 <sup>-2</sup>	13%
Packaging	Corrugated	0.25	63%	0.25	63%
Total Packaging		0.4	100%	0.4	100%

## 2.6 Manufacture

ezoBord's acoustic ceiling panels are manufactured at two production facilities, *Ayrsonics* in Kitchener, Ontario and *Vervia* in Elgin, Illinois. The primary component materials include polyester (PET) sheet, containing a minimum of 50% post-consumer recycled content, and adhesives. Resources use at the fabrication facilities is allocated to the product based on mass.

## 2.7 Environment and Health during Manufacture

No environmental or health impacts are expected during the manufacture of the ceiling panel product.

## 2.8 Product Processing/Installation

Typical installation is accomplished using adhesive tape included with the product and hand tools.

## 2.9 Packaging

The ezoBord products are packaged for shipment using plastic wrap and cardboard cartons.

## 2.10 Condition of Use

No special conditions of use are noted.

## 2.11 Environment and Health during use

No environmental or health impacts are expected due to normal use of the ceiling panel product.

## 2.12 Reference Service Life

The Reference Service Life (RSL) of the ceiling panel product is 75 years.

## 2.13 Extraordinary Effects

No environmental or health impacts are expected due to extraordinary effects including fire and/or water damage and product destruction.

## 2.14 Re-Use Phase

The ceiling panel product is not typically reused or recycled at end-of-life.

## 2.15 Disposal

At end-of-life, the products may be recycled or disposed of in a landfill or via incineration.

Society of the Plastics Industry (SPI) Resin Identification Code: Plastic #1: Polyethylene Terephthalate (PET)

## 2.16 Further Information

Further information on the product can be found on the manufacturers' website at <http://ezobord.com/>.

# 3. LCA: Calculation Rules

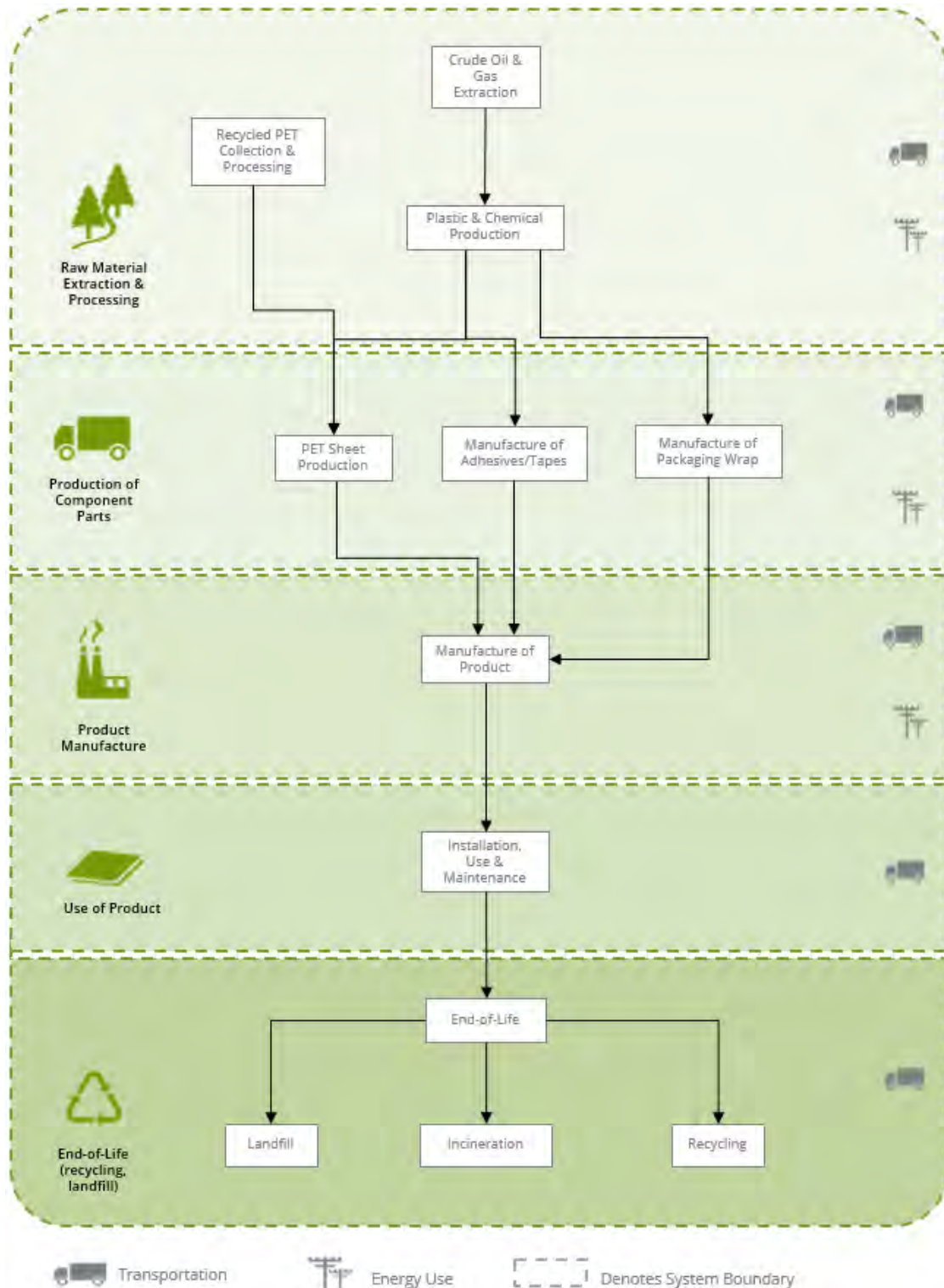
## 3.1 Functional Unit

The functional unit used in the study is defined as 1 m<sup>2</sup> of ceiling panel installed for use over a 75-year period. The reference flow for the product system is 1.30 kg/m<sup>2</sup> for the 9 mm product and 2.17 kg/m<sup>2</sup> for the 12 mm product.

Parameter	Value		Unit
	ezoBord - 9 mm	ezoBord - 12 mm	
Thickness of panel	0.009	0.012	m
Gross density	144.4	180.8	kg/m <sup>3</sup>
Conversion factor to 1 kg	0.769	0.461	-
Declared unit	1.00	1.00	m <sup>2</sup>
Declared unit	1.30	2.17	kg
Proportion of joints	-	-	%

### 3.2 System Boundary

The scope of the EPD is cradle-to-grave, including raw material extraction and processing, transportation, product manufacture, product delivery, installation and use, and product disposal. The life cycle phases included in the product system boundary are shown below.





### 3.3 Estimates and Assumptions

- The Elgin, Illinois facility is located in the RFCW eGRID EPA NERC subregion. An Ecoinvent inventory dataset was modified to reflect the eGRID energy mix for RFCW to estimate resource use and emissions from electricity use at the manufacturing facility. Electricity use at the Kitchener, Ontario facility is based on regional Ecoinvent data for Canada.
- Electricity use at the production facilities were allocated to the ceiling panel products based on product mass utilizing production data for calendar year 2017 provided by the manufacturer.
- Material data for various components of the ceiling panel products were provided by the manufacturer. The extraction and processing of raw materials for the primary polyester component material could not be modeled with actual process information. Representative data from the Ecoinvent LCI databases were utilized as appropriate.
- Specific data were not available for adhesives used in the products. Based on the SDS of these chemicals, secondary datasets on acrylic binders and dispersions from the Ecoinvent database were used to represent these chemicals in the LCA model.
- Disposal of product and packaging is modeled based on regional statistics regarding municipal solid waste generation and disposal in the United States. The data include end-of-life recycling rates of packaging and product materials.
- For final disposal of the product and packaging material at end-of-life, all materials are assumed to be transported 20 miles by diesel truck to either a landfill, incineration facility, or material reclamation facility (for recycling). Datasets representing disposal in a landfill and waste incineration are from Ecoinvent.

It should also be noted that LCIA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks.

The PCR allows for the results for several inventory flows related to construction products to be reported as “other parameters”. These are aggregated inventory flows, and do not characterize any potential impact; results should be interpreted taking into account this limitation.

### 3.4 Cut-off criteria

According to the PCR, processes contributing greater than 1% of the total environmental impact indicator for each impact are included in the inventory. No data gaps were allowed which were expected to significantly affect the outcome of the indicator results. No known flows are deliberately excluded from this EPD

### 3.5 Background Data

Primary data were provided by ezoBord for the Elgin, Illinois and Kitchener, Ontario manufacturing facilities. The sources of secondary LCI data are the Ecoinvent database.

**Table 4.** Data sources for the ezoBord product system.

Component	Material Description	Material Dataset	Data Source	Publication Date
<b>PRODUCT</b>				
PET Fibers / ezoBord	Polyethylene terephthalate, granulate, amorphous {RoW}   production; Recycled postconsumer PET pellet {GLO}   market for	Extrusion of plastic sheet and thermoforming, inline {RoW}   Market for	Ecoinvent <sup>1</sup> ; Ecoinvent <sup>1</sup>	2016; 2016
ezoTape	Acrylic dispersion, without water, in 65% solution state {GLO}   market for	Including in manufacturing process	Ecoinvent <sup>1</sup>	2016
PL Construction Adhesive	Polyurethane, flexible foam {GLO}   market for	Including in manufacturing process	Ecoinvent <sup>1</sup>	2016
<b>PACKAGING</b>				
Cardboard	Corrugated board box {GLO}   market for corrugated board box	Included in dataset	Ecoinvent <sup>1</sup>	2016
Packaging film	Packaging film, low density polyethylene, granulate {GLO}   market for	Included in dataset	Ecoinvent <sup>1</sup>	2016
Packaging foam	Polyurethane, flexible foam {GLO}   market for	Included in dataset	Ecoinvent <sup>1</sup>	2016
<b>RESOURCES</b>				
Regional electricity mix	Electricity, medium voltage {CA-ON}   market for   Alloc Rec, U	n/a	Ecoinvent <sup>1</sup>	2016
Regional electricity mix	Electricity, medium voltage, at grid/RFCW 2015	n/a	Ecoinvent <sup>2</sup>	2015
<b>TRANSPORTATION</b>				
Truck	Transport, freight, lorry 16-32 metric ton, EURO4 {GLO}   market for	n/a	Ecoinvent <sup>1</sup>	2016
Ship	Transport, freight, sea, transoceanic ship {GLO}   market for	n/a	Ecoinvent <sup>1</sup>	2016

1) Ecoinvent v3.3 Life Cycle Database

2) Ecoinvent v2.2 Life Cycle Database



### 3.6 Data Quality

The data quality assessment addressed the following parameters: time-related coverage, geographical coverage, technological coverage, precision, completeness, representativeness, consistency, reproducibility, sources of data, and uncertainty.

**Table 5.** *Data quality assessment for the ezoBord product system.*

Data Quality Parameter	Data Quality Discussion
<b>Time-Related Coverage:</b> Age of data and the minimum length of time over which data is collected	The most recent available data are used, based on other considerations such as data quality and similarity to the actual operations. Typically, these data are less than 10 years old (typically 2015 or more recent). All of the data used represented an average of at least one year's worth of data collection, and up to three years in some cases. Manufacturer-supplied data (primary data) are based on annual production for 2017.
<b>Geographical Coverage:</b> Geographical area from which data for unit processes is collected to satisfy the goal of the study	The data used in the analysis provide the best possible representation available with current data. Actual processes for upstream operations are primarily North American. Surrogate data used in the assessment are representative of North American or European operations. Data representative of European operations are considered sufficiently similar to actual processes. Data representing product disposal are based on US statistics.
<b>Technology Coverage:</b> Specific technology or technology mix	For the most part, data are representative of the actual technologies used for processing, transportation, and manufacturing operations. Representative fabrication datasets, specific to the type of material, are used to represent the actual processes, as appropriate.
<b>Precision:</b> Measure of the variability of the data values for each data expressed	Precision of results are not quantified due to a lack of data. Data collected for operations were typically averaged for one or more years and over multiple operations, which is expected to reduce the variability of results.
<b>Completeness:</b> Percentage of flow that is measured or estimated	The LCA model included all known mass and energy flows for production of the ceiling panel products. In some instances, surrogate data used to represent upstream and downstream operations may be missing some data which is propagated in the model. No known processes or activities contributing to more than 1% of the total environmental impact for each indicator are excluded. In total, these missing data represent less than 5% of the mass or energy flows.
<b>Representativeness:</b> Qualitative assessment of the degree to which the data set reflects the true population of interest	Data used in the assessment represent typical or average processes as currently reported from multiple data sources, and are therefore generally representative of the range of actual processes and technologies for production of these materials. Considerable deviation may exist among actual processes on a site-specific basis; however, such a determination would require detailed data collection throughout the supply chain back to resource extraction.
<b>Consistency:</b> Qualitative assessment of whether the study methodology is applied uniformly to the various components of the analysis	The consistency of the assessment is considered to be high. Data sources of similar quality and age are used with a bias towards Ecoinvent v3.2 data where available. Different portions of the product life cycle are equally considered; however, it must be noted that final disposition of the product is based on assumptions of current average practices in the United States.
<b>Reproducibility:</b> Qualitative assessment of the extent to which information about the methodology and data values would allow an independent practitioner to reproduce the results reported in the study	Based on the description of data and assumptions used, this assessment would be reproducible by other practitioners. All assumptions, models, and data sources are documented.
<b>Sources of the Data:</b> Description of all primary and secondary data sources	Data representing energy use at the <i>AyrSonics</i> and <i>Vervia</i> manufacturing facilities represent an annual average and are considered of high quality due to the length of time over which these data are collected, as compared to a snapshot that may not accurately reflect fluctuations in production. The Ecoinvent database is used for secondary LCI datasets.
<b>Uncertainty of the Information:</b> Uncertainty related to data, models, and assumptions	Uncertainty related to materials in the panel products and packaging is low. Actual supplier data for upstream operations was not available for all suppliers and the study relied upon the use of existing representative datasets. These datasets contained relatively recent data (<10 years), but lacked geographical representativeness. Uncertainty related to the impact assessment methods used in the study are high. The impact assessment method required by the PCR includes impact potentials, which lack characterization of providing and receiving environments or tipping points.

### 3.7 Period under review

The period of review is calendar year 2017.

### 3.8 Allocation

Manufacturing resource use was allocated to the products based on mass. Impacts from transportation were allocated based on the mass of material and distance transported. Life cycle impact results are presented for a production weighted average for the two manufacturing facilities.

The product system includes some recycled materials, which were allocated using the recycled content allocation method (also known as the 100-0 cut-off method). Using the recycled content allocation approach, system inputs with recycled content do not receive any burden from the previous life cycle other than reprocessing of the waste material. At end-of-life, materials which are recycled leave the system boundaries with no additional burden.

### 3.9 Comparability

The PCR this EPD was based on was not written to support comparative assertions. EPDs based on different PCRs, or different calculation models, may not be comparable. When attempting to compare EPDs or life cycle impacts of products from different companies, the user should be aware of the uncertainty in the final results, due to and not limited to, the practitioner's assumptions, the source of the data used in the study, and the specifics of the product modeled.

## 4. LCA: Scenarios and Additional Technical Information

### ***Delivery and Installation stage (A4 - A5)***

Distribution of the panel products to the point of installation assumed a transport distance of 1,030 km by diesel truck from the *Ayrsonics* production facility and 2,400 km by diesel truck from the *Vervia* facility. Transportation parameters for modeling are summarized in Table 6.

**Table 6.** *Transport parameters, per m<sup>2</sup> (A4)*

Parameter	Value	Unit
Transport distance from <i>Ayrsonics</i> (truck)	1,030	km
Transport distance from <i>Vervia</i> (truck)	2,400	km
Gross mass of products transported – 9 mm	1.70	kg
Gross mass of products transported – 12 mm	2.57	kg

Installation of the product is accomplished using hand tools with no associated emissions and negligible impacts and no waste generated. The impacts associated with packaging disposal are included with the installation phase as per PCR requirements.

### ***Use stage (B1)***

No impacts are associated with the use of the product over the Reference Service Lifetime.

### ***Maintenance stage (B2)***

The panel product can be cleaned and maintained by removing dust and dirt with a stiff plastic bristle brush, with no associated impacts.

**Repair/Replacement/Refurbishment stage (B3 - B5)**

Product repair, replacement and refurbishment are not relevant during the lifetime of the product. No product replacements are required over the 75 year building lifetime.

**Building operation stage (B6 – B7)**

There is no operational energy or water use associated with the use of the product and the results for these stages are zero.

**Disposal stage (C1 - C4)**

The disposal stage includes demolition of the products (C1); transport of the panel products to waste treatment facilities (C2); waste processing (C3); and associated emissions as the product degrades in a landfill or is burned in an incinerator (C4). For the ezoBord products, no emissions are generated during demolition (C1) while no waste processing (C3) is required for incineration or landfill disposal. Transportation of waste materials at end-of-life (C2) assumes a 20-mile average distance to disposal, consistent with assumptions used in the US EPA WARM model. The relevant recycling rates used for the product and packaging are based on regional statistics regarding municipal solid waste generation and disposal in the United States for 2015, from the US Environmental Protection Agency. The data include end-of-life recycling rates of packaging and product materials. The relevant recycling rates used for the product and packaging are summarized in Table 7.

**Table 7.** Recycling rates for materials at end-of-life.

Material	Product	Packaging
Plastics	6.6%	14.6%
Paper and paperboard	n/a	78.2%

## 5. LCA: Results

Results of the Life Cycle Assessment are presented below. It is noted that LCA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks.

**Table 8.** Life cycle phases included in the product system boundary.

Product			Construction Process		Use								End-of-life				Benefits and loads beyond the system boundary
A1	A2	A3	A4	A5	B1	B1	B3	B4	B5	B6	B7		C1	C2	C3	C4	D
Raw material extraction and processing	Transport to manufacturer	Manufacturing	Transport	Construction - installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use		Deconstruction demolition	Transport	Waste processing	Disposal	Reuse, recovery and/or recycling potential
X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	MND



The following environmental impact category indicator are reported using characterization factors based on the U.S. EPA's Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts – TRACI:

Impact Category	Unit
Global Warming Potential (GWP 100)	kg CO <sub>2</sub> eq
Ozone Depletion Potential (ODP)	kg CFC 11 eq
Acidification Potential (AP)	kg SO <sub>2</sub> eq
Eutrophication Potential (EP)	kg N eq
Smog Formation Potential (POCP)	kg O <sub>3</sub> eq
Fossil Fuel Depletion Potential (FFD)	MJ Surplus, LHV

These six impact categories are globally deemed mature enough to be included in Type III environmental declarations. Other categories are being developed and defined and LCA should continue making advances in their development, however the EPD users shall not use additional measures for comparative purposes.

The following optional environmental impact category indicators are also reported based on the CML-IA characterization factors:

Impact Category	Unit
Global Warming Potential (GWP 100)	kg CO <sub>2</sub> eq
Depletion potential of the stratospheric ozone layer (ODP)	kg CFC 11 eq
Acidification Potential of soil and water (AP)	kg SO <sub>2</sub> eq
Eutrophication Potential (EP)	kg PO <sub>4</sub> <sup>3-</sup> eq
Photochemical Oxidant Creation Potential (POCP)	kg C <sub>2</sub> H <sub>4</sub> eq
Abiotic depletion potential (ADP-elements) for non-fossil resources	kg Sb eq
Abiotic depletion potential (ADP-fossil fuels) for fossil resources	MJ, LHV



**Table 9.** CML Life Cycle Impact Assessment (LCIA) results for the 9mm ezoBord panel product over a 75-yr time horizon. All values are rounded to two significant digits. Results reported in MJ are calculated using lower heating values.

Impact category	Unit	Module A1 - Raw material extraction and processing	Module A2 - Transport to manufacturer	Module A3 - Manufacturing	Module A4 - Transport	Module A5 - Construction - installation	Module C2 - Transport	Module C4 - Disposal	Module D - Reuse, recovery and/or recycling potential
Global warming (GWP, 100 year)	kg CO <sub>2</sub> eq	4.8	0.10	1.2	0.50	0.16	7.9x10 <sup>-3</sup>	0.76	MND
	%	64%	1.4%	16%	6.6%	2.1%	0.10%	10%	
Acidification	kg SO <sub>2</sub> eq	2.7x10 <sup>-2</sup>	4.2x10 <sup>-4</sup>	6.0x10 <sup>-3</sup>	2.0x10 <sup>-3</sup>	5.2x10 <sup>-5</sup>	3.1x10 <sup>-5</sup>	2.4x10 <sup>-4</sup>	MND
	%	76%	1.2%	17%	5.5%	0.14%	0.09%	0.67%	
Eutrophication	kg (PO <sub>4</sub> ) <sup>3-</sup> eq	7.6x10 <sup>-3</sup>	9.4x10 <sup>-5</sup>	1.8x10 <sup>-3</sup>	4.4x10 <sup>-4</sup>	1.0x10 <sup>-3</sup>	7.1x10 <sup>-6</sup>	7.9x10 <sup>-3</sup>	MND
	%	40%	0.50%	9.8%	2.4%	5.4%	0.04%	42%	
Ozone depletion	kg CFC-11 eq.	2.9x10 <sup>-7</sup>	1.9x10 <sup>-8</sup>	4.3x10 <sup>-8</sup>	9.1x10 <sup>-8</sup>	1.0x10 <sup>-9</sup>	1.5x10 <sup>-9</sup>	5.8x10 <sup>-9</sup>	MND
	%	64%	4.3%	9.6%	20%	0.23%	0.32%	1.3%	
Smog	kg C <sub>2</sub> H <sub>4</sub> eq	1.3x10 <sup>-3</sup>	1.8x10 <sup>-5</sup>	2.8x10 <sup>-4</sup>	8.4x10 <sup>-5</sup>	1.8x10 <sup>-5</sup>	1.3x10 <sup>-6</sup>	4.3x10 <sup>-5</sup>	MND
	%	75%	1.0%	16%	4.8%	1.0%	0.08%	2.4%	
Abiotic depletion (elements)	kg Sb eq	1.1x10 <sup>-5</sup>	3.1x10 <sup>-7</sup>	9.8x10 <sup>-7</sup>	1.5x10 <sup>-6</sup>	1.1x10 <sup>-8</sup>	2.3x10 <sup>-8</sup>	3.9x10 <sup>-8</sup>	MND
	%	80%	2.2%	7.0%	10%	0.08%	0.17%	0.28%	
Abiotic depletion (fossil fuels)	MJ	80	1.7	20	7.9	0.10	0.13	0.57	MND
	%	72%	1.5%	18%	7.1%	0.09%	0.11%	0.51%	

**Table 10.** TRACI Life Cycle Impact Assessment (LCIA) results for the 9mm ezoBord panel product over a 75-yr time horizon. All values are rounded to two significant digits. Results reported in MJ are calculated using lower heating values.

Impact category	Unit	Module A1 - Raw material extraction and processing	Module A2 - Transport to manufacturer	Module A3 - Manufacturing	Module A4 - Transport	Module A5 - Construction - installation	Module C2 - Transport	Module C4 - Disposal	Module D - Reuse, recovery and/or recycling potential
Global warming (GWP, 100 year)	kg CO <sub>2</sub> eq	4.7	0.10	1.2	0.49	0.14	7.8x10 <sup>-3</sup>	0.73	MND
	%	64%	1.4%	16%	6.7%	2.0%	0.11%	9.8%	
Acidification	kg SO <sub>2</sub> eq	2.7x10 <sup>-2</sup>	4.8x10 <sup>-4</sup>	5.9x10 <sup>-3</sup>	2.3x10 <sup>-3</sup>	6.5x10 <sup>-5</sup>	3.6x10 <sup>-5</sup>	3.0x10 <sup>-4</sup>	MND
	%	75%	1.3%	16%	6.4%	0.18%	0.10%	0.83%	
Eutrophication	kg N eq	1.5x10 <sup>-2</sup>	1.2x10 <sup>-4</sup>	3.7x10 <sup>-3</sup>	5.5x10 <sup>-4</sup>	2.6x10 <sup>-3</sup>	8.8x10 <sup>-6</sup>	2.1x10 <sup>-2</sup>	MND
	%	35%	0.27%	8.5%	1.3%	6.0%	0.02%	49%	
Ozone depletion	kg CFC-11 eq	2.9x10 <sup>-7</sup>	1.9x10 <sup>-8</sup>	4.2x10 <sup>-8</sup>	9.1x10 <sup>-8</sup>	1.0x10 <sup>-9</sup>	1.5x10 <sup>-9</sup>	5.8x10 <sup>-9</sup>	MND
	%	64%	4.3%	9.5%	20%	0.23%	0.32%	1.3%	
Smog	kg O <sub>3</sub> eq	0.29	1.1x10 <sup>-2</sup>	6.1x10 <sup>-2</sup>	5.3x10 <sup>-2</sup>	1.5x10 <sup>-3</sup>	8.5x10 <sup>-4</sup>	6.9x10 <sup>-3</sup>	MND
	%	68%	2.7%	14%	13%	0.36%	0.20%	1.6%	
Fossil fuel depletion	MJ surplus	8.9	0.23	2.3	1.1	1.3x10 <sup>-2</sup>	1.7x10 <sup>-2</sup>	7.4x10 <sup>-2</sup>	MND
	%	71%	1.8%	18%	8.6%	0.10%	0.14%	0.58%	

MND = Module not declared

**Table 11.** Resource use for the 9mm ezoBord panel product over a 75-yr time horizon. All values are rounded to two significant digits. Results reported in MJ are calculated using lower heating values.

Impact category	Unit	Module A1 - Raw material extraction and processing	Module A2 - Transport to manufacturer	Module A3 - Manufacturing	Module A4 - Transport	Module A5 - Construction - installation	Module C2 - Transport	Module C4 - Disposal	Module D - Reuse, recovery and/or recycling potential
Use of renewable primary energy excluding the renewable primary energy resources used as raw materials	MJ	4.3	$2.0 \times 10^{-2}$	3.0	$9.6 \times 10^{-2}$	$3.0 \times 10^{-3}$	$1.5 \times 10^{-3}$	$2.0 \times 10^{-2}$	MND
	%	58%	0.28%	40%	1.3%	0.04%	0.02%	0.27%	
Use of renewable primary energy resources used as raw materials	MJ	-	-	-	-	-	-	-	MND
Total use of renewable primary energy resources	MJ	4.3	$2.0 \times 10^{-2}$	3.0	$9.6 \times 10^{-2}$	$3.0 \times 10^{-3}$	$1.5 \times 10^{-3}$	$2.0 \times 10^{-2}$	MND
	%	58%	0.28%	40%	1.3%	0.04%	0.02%	0.27%	
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA	INA	INA	INA	MND
Use of non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA	INA	INA	INA	MND
Total use of non-renewable primary energy resources	MJ	88	1.7	26	8.0	0.11	0.13	0.59	MND
	%	71%	1.4%	21%	6.4%	0.08%	0.10%	0.47%	
Use of secondary materials	Kg	0.55	-	-	-	-	-	-	MND
	%	100%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Use of renewable secondary fuels	MJ	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	MND
Use of non-renewable secondary fuels	MJ	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	MND

MND = Module not declared

INA = Indicator not assessed

Neg. = Negligible



**Table 12.** Waste and outflows for the 9mm ezoBord panel product over a 75-yr time horizon. All values are rounded to two significant digits. Results reported in MJ are calculated using lower heating values.

Impact category	Unit	Module A1 - Raw material extraction and processing	Module A2 - Transport to manufacturer	Module A3 - Manufacturing	Module A4 - Transport	Module A5 - Construction - installation	Module C2 - Transport	Module C4 - Disposal	Module D - Reuse, recovery and/or recycling potential
Non-hazardous waste disposed	kg	2.2x10 <sup>-4</sup>	9.5x10 <sup>-7</sup>	1.6x10 <sup>-5</sup>	4.5x10 <sup>-6</sup>	9.5x10 <sup>-8</sup>	7.2x10 <sup>-8</sup>	7.4x10 <sup>-7</sup>	MND
	%	91%	0.39%	6.7%	1.8%	0.04%	0.03%	0.30%	
Hazardous waste disposed	kg	0.42	7.5x10 <sup>-2</sup>	8.0x10 <sup>-2</sup>	0.35	0.15	5.6x10 <sup>-3</sup>	1.7	MND
	%	15%	2.7%	2.9%	13%	5.6%	0.20%	61%	
Radioactive waste disposed (high-level)	kg	2.5x10 <sup>-5</sup>	1.0x10 <sup>-7</sup>	3.8x10 <sup>-5</sup>	4.7x10 <sup>-7</sup>	1.5x10 <sup>-8</sup>	7.5x10 <sup>-9</sup>	6.6x10 <sup>-8</sup>	MND
	%	40%	0.16%	59%	0.74%	0.02%	0.01%	0.10%	
Radioactive waste disposed (low-level)	kg	1.3x10 <sup>-4</sup>	1.1x10 <sup>-5</sup>	3.5x10 <sup>-5</sup>	5.1x10 <sup>-5</sup>	5.2x10 <sup>-7</sup>	8.2x10 <sup>-7</sup>	2.9x10 <sup>-6</sup>	MND
	%	57%	4.6%	15%	22%	0.22%	0.35%	1.2%	
Components for re-use	kg	0	0	0	0	0	0	0	MND
Materials for recycling	kg	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	MND
Materials for energy recovery	Kg	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	MND
Exported energy	MJ	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	MND
Use of renewable material resources	kg	0	0	0	0	0	0	0	MND

MND = Module not declared

Neg. = Negligible

**Table 13.** CML Life Cycle Impact Assessment (LCIA) results for the 12mm ezoBord panel product over a 75-yr time horizon. All values are rounded to two significant digits. Results reported in MJ are calculated using lower heating values.

Impact category	Unit	Module A1 - Raw material extraction and processing	Module A2 - Transport to manufacturer	Module A3 - Manufacturing	Module A4 - Transport	Module A5 - Construction - installation	Module C2 - Transport	Module C4 - Disposal	Module D - Reuse, recovery and/or recycling potential
Global warming (GWP, 100 year)	kg CO <sub>2</sub> eq	8.1	0.17	1.5	0.75	0.16	1.3x10 <sup>-2</sup>	1.3	MND
	%	68%	1.5%	13%	6.3%	1.3%	0.11%	11%	
Acidification	kg SO <sub>2</sub> eq	4.6x10 <sup>-2</sup>	6.9x10 <sup>-4</sup>	8.0x10 <sup>-3</sup>	3.0x10 <sup>-3</sup>	5.2x10 <sup>-5</sup>	5.3x10 <sup>-5</sup>	4.0x10 <sup>-4</sup>	MND
	%	79%	1.2%	14%	5.1%	0.09%	0.09%	0.70%	
Eutrophication	kg (PO <sub>4</sub> ) <sub>3</sub> eq	1.3x10 <sup>-2</sup>	1.6x10 <sup>-4</sup>	2.4x10 <sup>-3</sup>	6.7x10 <sup>-4</sup>	1.0x10 <sup>-3</sup>	1.2x10 <sup>-5</sup>	1.3x10 <sup>-2</sup>	MND
	%	42%	0.51%	8.0%	2.2%	3.3%	0.04%	44%	
Ozone depletion	kg CFC-11 eq.	4.9x10 <sup>-7</sup>	3.2x10 <sup>-8</sup>	5.3x10 <sup>-8</sup>	1.4x10 <sup>-7</sup>	1.0x10 <sup>-9</sup>	2.4x10 <sup>-9</sup>	9.8x10 <sup>-9</sup>	MND
	%	67%	4.4%	7.3%	19%	0.14%	0.34%	1.4%	
Smog	kg C <sub>2</sub> H <sub>4</sub> eq	2.2x10 <sup>-3</sup>	3.0x10 <sup>-5</sup>	3.5x10 <sup>-4</sup>	1.3x10 <sup>-4</sup>	1.8x10 <sup>-5</sup>	2.2x10 <sup>-6</sup>	6.8x10 <sup>-5</sup>	MND
	%	79%	1.1%	13%	4.6%	0.64%	0.08%	2.5%	
Abiotic depletion (elements)	kg Sb eq	1.8x10 <sup>-5</sup>	5.2x10 <sup>-7</sup>	1.1x10 <sup>-6</sup>	2.2x10 <sup>-6</sup>	1.1x10 <sup>-8</sup>	3.9x10 <sup>-8</sup>	6.6x10 <sup>-8</sup>	MND
	%	82%	2.3%	4.8%	10.0%	0.05%	0.18%	0.29%	
Abiotic depletion (fossil fuels)	MJ	140	2.8	24	12	0.10	0.21	0.96	MND
	%	77%	1.6%	14%	6.8%	0.06%	0.12%	0.55%	

**Table 14.** TRACI Life Cycle Impact Assessment (LCIA) results for the 12mm ezoBord panel product over a 75-yr time horizon. All values are rounded to two significant digits. Results reported in MJ are calculated using lower heating values.

Impact category	Unit	Module A1 - Raw material extraction and processing	Module A2 - Transport to manufacturer	Module A3 - Manufacturing	Module A4 - Transport	Module A5 - Construction - installation	Module C2 - Transport	Module C4 - Disposal	Module D - Reuse, recovery and/or recycling potential
Global warming (GWP, 100 year)	kg CO <sub>2</sub> eq	7.9	0.17	1.5	0.75	0.14	1.3x10 <sup>-2</sup>	1.2	MND
	%	68%	1.5%	13%	6.4%	1.2%	0.11%	10%	
Acidification	kg SO <sub>2</sub> eq	4.5x10 <sup>-2</sup>	8.0x10 <sup>-4</sup>	7.7x10 <sup>-3</sup>	3.4x10 <sup>-3</sup>	6.5x10 <sup>-5</sup>	6.1x10 <sup>-5</sup>	5.0x10 <sup>-4</sup>	MND
	%	78%	1.4%	13%	6.0%	0.11%	0.11%	0.87%	
Eutrophication	kg N eq	2.6x10 <sup>-2</sup>	1.9x10 <sup>-4</sup>	4.9x10 <sup>-3</sup>	8.3x10 <sup>-4</sup>	2.6x10 <sup>-3</sup>	1.5x10 <sup>-5</sup>	3.6x10 <sup>-2</sup>	MND
	%	36%	0.27%	7.0%	1.2%	3.7%	0.02%	52%	
Ozone depletion	kg CFC-11 eq	4.9x10 <sup>-7</sup>	3.2x10 <sup>-8</sup>	5.1x10 <sup>-8</sup>	1.4x10 <sup>-7</sup>	1.0x10 <sup>-9</sup>	2.4x10 <sup>-9</sup>	9.8x10 <sup>-9</sup>	MND
	%	67%	4.5%	7.1%	19%	0.14%	0.34%	1.4%	
Smog	kg O <sub>3</sub> eq	0.49	1.9x10 <sup>-2</sup>	7.5x10 <sup>-2</sup>	8.1x10 <sup>-2</sup>	1.5x10 <sup>-3</sup>	1.4x10 <sup>-3</sup>	1.2x10 <sup>-2</sup>	MND
	%	72%	2.8%	11%	12%	0.23%	0.21%	1.7%	
Fossil fuel depletion	MJ surplus	15	0.38	2.4	1.6	1.3x10 <sup>-2</sup>	2.9x10 <sup>-2</sup>	0.12	MND
	%	76%	1.9%	12%	8.3%	0.07%	0.15%	0.64%	

MND = Module not declared

**Table 15.** Resource use for the 12mm ezoBord panel product over a 75-yr time horizon. All values are rounded to two significant digits. Results reported in MJ are calculated using lower heating values.

Impact category	Unit	Module A1 - Raw material extraction and processing	Module A2 - Transport to manufacturer	Module A3 - Manufacturing	Module A4 - Transport	Module A5 - Construction - installation	Module C2 - Transport	Module C4 - Disposal	Module D - Reuse, recovery and/or recycling potential
Use of renewable primary energy excluding the renewable primary energy resources used as raw materials	MJ	7.2	3.4x10 <sup>-2</sup>	3.2	0.15	3.0x10 <sup>-3</sup>	2.6x10 <sup>-3</sup>	3.3x10 <sup>-2</sup>	MND
	%	68%	0.32%	30%	1.4%	0.03%	0.02%	0.31%	
Use of renewable primary energy resources used as raw materials	MJ	-	-	-	-	-	-	-	MND
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	INA	INA	INA	INA	INA	INA	INA	MND
Use of non-renewable primary energy resources used as raw materials	MJ.	INA	INA	INA	INA	INA	INA	INA	MND
Use of secondary materials	kg	0.73	-	-	-	-	-	-	MND
	%	100%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Use of renewable secondary fuels	MJ.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	MND
Use of non-renewable secondary fuels	MJ.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	MND

MND = Module not declared | INA = Indicator not assessed | Neg. = Negligible

**Table 16.** Waste and outflows for the 12mm ezoBord panel product over a 75-yr time horizon. All values are rounded to two significant digits. Results reported in MJ are calculated using lower heating values.

Impact category	Unit	Module A1 - Raw material extraction and processing	Module A2 - Transport to manufacturer	Module A3 - Manufacturing	Module A4 - Transport	Module A5 - Construction - installation	Module C2 - Transport	Module C4 - Disposal	Module D - Reuse, recovery and/or recycling potential
Non-hazardous waste disposed	kg	3.8x10 <sup>-4</sup>	1.6x10 <sup>-6</sup>	2.4x10 <sup>-5</sup>	6.8x10 <sup>-6</sup>	1.1x10 <sup>-7</sup>	1.2x10 <sup>-7</sup>	6.6x10 <sup>-7</sup>	MND
	%	3.8x10 <sup>-4</sup>	1.6x10 <sup>-6</sup>	2.4x10 <sup>-5</sup>	6.8x10 <sup>-6</sup>	9.5x10 <sup>-8</sup>	1.2x10 <sup>-7</sup>	1.2x10 <sup>-6</sup>	
Hazardous waste disposed	kg	92%	0.38%	5.8%	1.6%	0.02%	0.03%	0.29%	MND
	%	0.67	0.12	9.1x10 <sup>-2</sup>	0.53	0.15	9.4x10 <sup>-3</sup>	2.9	
Radioactive waste disposed (high-level)	kg	15%	2.8%	2.1%	12%	3.5%	0.21%	64%	MND
	%	4.3x10 <sup>-5</sup>	1.7x10 <sup>-7</sup>	6.4x10 <sup>-5</sup>	7.1x10 <sup>-7</sup>	1.5x10 <sup>-8</sup>	1.3x10 <sup>-8</sup>	1.1x10 <sup>-7</sup>	
Radioactive waste disposed (low-level)	kg	40%	0.15%	59%	0.66%	0.01%	0.01%	0.10%	MND
	%	2.3x10 <sup>-4</sup>	1.8x10 <sup>-5</sup>	5.2x10 <sup>-5</sup>	7.8x10 <sup>-5</sup>	5.2x10 <sup>-7</sup>	1.4x10 <sup>-6</sup>	4.9x10 <sup>-6</sup>	
Components for re-use	kg	0	0	0	0	0	0	0	MND
Materials for recycling	kg	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	MND
Materials for energy recovery	kg	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	MND
Recovered energy	MJ eq.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	MND
Exported energy	MJ eq.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	MND
Use of renewable material resources	kg	0	0	0	0	0	0	0	MND

MND = Module not declared

Neg. = Negligible

## 6. LCA: Interpretation

The interpretation phase conforms to ISO 14044 with further guidance from the ILCD General Guide for Life Cycle Assessment. The interpretation included the use of evaluation and sensitivity checks to steer the iterative process during the assessment, and a final evaluation including completeness, sensitivity, and consistency checks, at the end of the study.

The main contributions to indicator results are from the material extraction phase (A1). Other life cycle stage results vary across indicators although generally the product manufacturing (A3) and upstream transport (A2) phases combined are the next highest contributors followed by the product distribution phase (A4).

## 7. Additional Environmental Information

### 7.1 VOC emissions

**Table 17.** VOC emissions test results based on Test Method US EPA 5021A:2003.

Chemical	CAS NO	Unit	Method Detection Limit	Value
n-Hexane	110-54-3	mg/kg	5	ND
Benzene	71-43-2	mg/kg	5	ND
Styrene	100-42-5	mg/kg	5	ND
Bromoform	75-25-2	µg/g	1	ND

ND = Not Detected ( < MDL )



## 8. References

1. Life Cycle Assessment of ezoBord PET Panel Products. SCS Global Services Report. Prepared for iVekter, Inc. October 2018.
2. ISO 14025:2006 Environmental labels and declarations – Type III environmental declarations – Principles and Procedures.
3. ISO 14040: 2006 Environmental Management – Life cycle assessment – Principles and Framework
4. ISO 14044: 2006 Environmental Management – Life cycle assessment – Requirements and Guidelines.
5. ISO 21930: 2017 Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services.
6. SCS Type III Environmental Declaration Program: Program Operator Manual. V9.0 January 2018. SCS Global Services.
7. Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts (TRACI). Dr. Bare, J., <http://www.epa.gov/nrmrl/std/traci/traci.html>
8. CML-IA Characterization Factors. Leiden University, Institute of Environmental Sciences. April 2013. <http://cml.leiden.edu/software/data-cmlia.html>
9. Ecoinvent Centre (2012) ecoinvent data from v2.2. Swiss Center for Life Cycle Inventories, Dübendorf, 2012, <http://www.ecoinvent.org>
10. Ecoinvent Centre (2016) ecoinvent data from v3.3. Swiss Center for Life Cycle Inventories, Dübendorf, 2016, <http://www.ecoinvent.org>
11. European Joint Research Commission. International Reference Life Cycle Data System handbook. *General guide for Life Cycle Assessment – Detailed Guidance*. © European Union, 2010.
12. US EPA. Advancing Sustainable Materials Management: 2015 Fact Sheet. Assessing Trends in Material Generation, Recycling and Disposal in the United States. July 2018. [https://www.epa.gov/sites/production/files/2018-7/documents/2015\\_smm\\_msw\\_factsheet\\_07242018\\_fnl\\_508\\_002.pdf](https://www.epa.gov/sites/production/files/2018-7/documents/2015_smm_msw_factsheet_07242018_fnl_508_002.pdf).
13. "WARM Model Transportation Research - Draft." Memorandum from ICF Consulting to United States Environmental Protection Agency. September 7, 2004. <http://epa.gov/epawaste/conserve/tools/warm/SWMGHGreport.html#background>.



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**Ayrsonics Inc.**

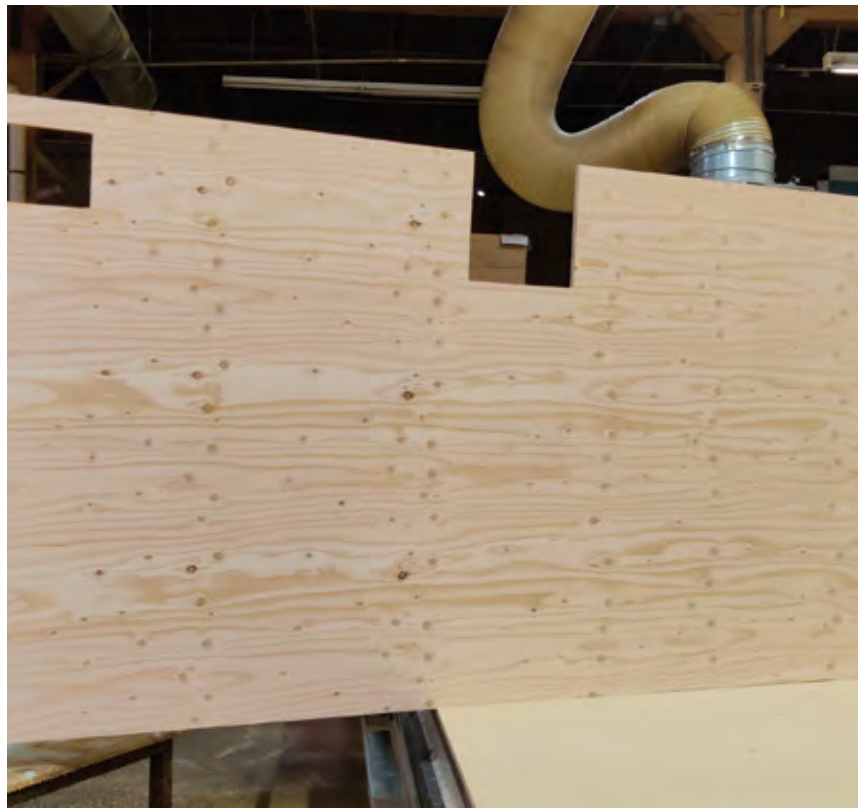
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**SCS Global Services**

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# Marine and Exterior Sanded Plywood



Combine the natural beauty of real wood and the manufacturing expertise of Roseburg and you have a quality plywood panel for countless applications. A variety of panel face and back grades are available with core options to meet the most demanding industry requirements and standards.

# Marine and Exterior Sanded Plywood

## PRODUCTS

- AB Marine
- Roseburg Custom Marine
- BB Marine
- AC
- BC
- CCPTS

## SUSTAINABLE ATTRIBUTES

Our Marine and Exterior Sanded panels can help customers achieve sustainability and green building objectives.

## CERTIFICATIONS AND CREDENTIALS

- Environmental Product Declaration - Type III product-specific EPD verified by UL environment
- Forest Stewardship Council® (FSC®)-Certified Available
- Leadership in Energy and Environmental Design® LEED v4 Low Emitting Materials
- Made with moisture-resistant adhesives that meet ASTM 2559
- No surface treatments with added urea-formaldehyde resins or coatings
- APA Trademarked and Compliant with PS 1-19



## MARINE SANDED PLYWOOD

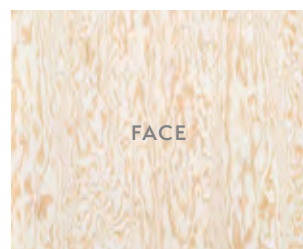
Roseburg Marine Core panels are all made with 100% Douglas-fir B-grade or better veneers – face, core, and back. The face and back of each panel is fully sanded and any core gaps are limited to 1/8" or less. Marine Core panels are Roseburg's highest quality industrial sanded panels and are designed to meet the most rigorous project demands.

## APPLICATIONS

- Boat houses
- Docks
- Outdoor furniture
- Pontoon boats

### AB Marine

SANDED PLYWOOD



FACE

#### Face

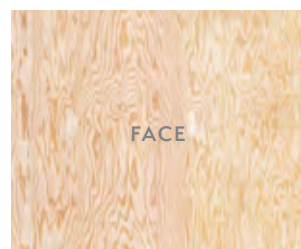
Grade: Marine A

Max Wood Repairs (footballs): 9

Synthetic Repairs Allowed: None

### Custom Marine BB Marine

SANDED PLYWOOD



FACE

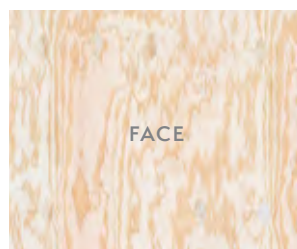
#### Face

Grade: A with custom features

Max Wood Repairs (footballs): 9

Synthetic Repairs Allowed:

Yes - < 3/8"



FACE

#### Face

Grade: B

Max Wood Repairs (footballs): Unlimited

Synthetic Repairs Allowed: Yes



CORE

BACK

#### Core

Grade: B -

solid natural

Core Gaps:

1/8" max

#### Back

Grade: B

Max Wood Repairs (footballs): Unlimited

Synthetic Repairs Allowed: Yes

# Marine and Exterior Sanded Plywood

## SPECIFICATIONS & PACKAGING DETAILS Lengths - 8' and limited 10' availability Width - 4'

	Thickness (# of plys)	Pieces per unit	Pounds per MSF	Pounds per unit
Marine Core Panels	1/4 (3 ply)	120*	725	2,784
	3/8 (4 ply)	80*	950	2,432
	1/2 (5 ply)	60	1,458	2,800
	5/8 (7 ply)	50*	1,700	2,720
	3/4 (7 ply)	40	2,250	2,880
	1 (9 ply)	30	2,968	2,849
Exterior Core Panels	1/4 (3 ply)	120	807	3,100
	11/32 (3 ply)	90	727	2,093
	15/32 (5 ply)	66	1,302	2,750
	19/32 (5 ply)	53	1,600	2,720
	23/32 (5 & 7 ply)	40	2,250	2,714
	31/32 (7 ply)	30	2,700	2,592

Units have 3 bands, 3 stickers, and a top cover with thickness and grade, \*Half packs available

## EXTERIOR SANDED PLYWOOD

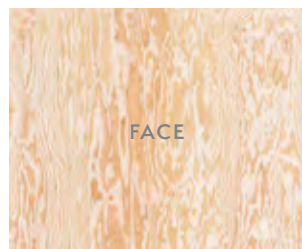
Our Exterior Core panels are made with western wood veneers C grade or better core and back. AC and BC panels offer a fully sanded face. The CCPTS panel has a touch-sanded face to provide a tighter thickness tolerance. These Exterior Core panels meet the high quality industrial grade requirements of most projects.

## APPLICATIONS

- Storage cabinets
- Garage & carport shelving/cabinets
- Home projects
- Platforms for bed frames
- Playhouses
- Furniture
- Countertop underlayment
- Outdoor signs
- Wooden toys
- Commercial projects
- Furniture components
- Racks, mezzanine floors
- Display structure

### AC

SANDED PLYWOOD



#### Face

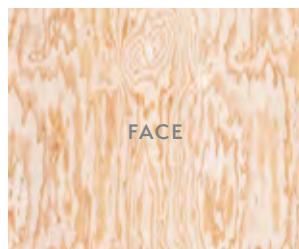
Grade: A

Max Wood Repairs (footballs): 18

Synthetic Repairs Allowed: Yes

### BC

SANDED PLYWOOD



#### Face

Grade: B

Max Wood Repairs (footballs): Unlimited

Synthetic Repairs Allowed: Yes

### CCPTS

SANDED PLYWOOD



#### Face

Grade: C

Max Wood Repairs (footballs): Unlimited

Synthetic Repairs Allowed: Yes



#### Core

Grade: C

Core Gaps:  
Per PS 1

#### Back

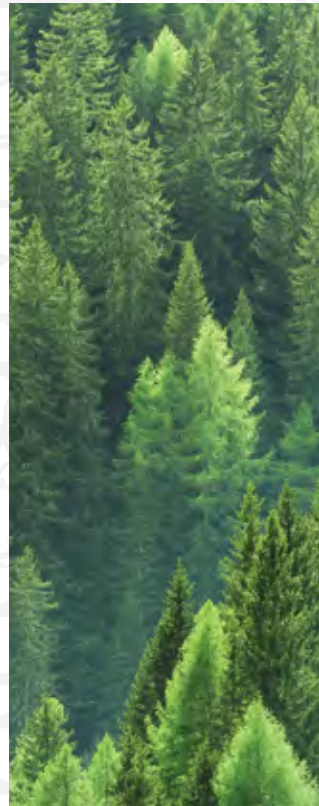
Grade: C



## ABOUT ROSEBURG

Since 1936, Roseburg has been a major manufacturer and supplier of high-quality wood products. From humble beginnings in Oregon, we've grown through smart management of natural resources, state-of-the-art manufacturing facilities, talented and experienced team members and a reputation for reliably supplying quality wood products to a wide variety of clients.

Unique in today's wood products industry with a vertically integrated structure driven by over 600,000 acres of our own sustainably managed forestlands in Oregon, Virginia and North Carolina, Roseburg products are shipped and used throughout North America and the Pacific Rim.



3660 Gateway St, Springfield, OR 97477  
800.245.1115 | [roseburg.com](https://www.roseburg.com)

SANDED PLYWOOD 02052021





## NCPA TAB 5- Products and Services

- Warranty

See attached copy of standard warranty. In addition, the standard lead time for replacement parts will depend on if the new item needs to be made from scratch or is an existing part in inventory. If made from scratch we normally try to build replacement items with a 2-week window whenever possible.

Life expectancy of this product is estimated to be about 20 years with normal use.

We do not have a return policy as standard as each item is made to order. That is why we do not allow end users to order from our website, we want to make certain our local dealer is working with them to make certain they understand what they are purchasing.

- All Products will be new and meet the BIFMA standard for the privacy pod category.

- Construction

All products are built to meet industry standards and beyond. The line of Oasis-Berco includes a total of 17 different pods depending on application required for the client. The fully enclosed units are used specifically for speech privacy and include a motion sensor activated light and fan that turn on when you step inside of the pod. After you leave the pod the motion sensor will not register any movement and after about 10 minutes will turn off the light and fan.

All of these fully enclosed units have adjustable light intensity and fan speeds to choose from that are preset when installing the pod.



All fully enclosed pods will include several knockouts built into the ceiling to allow access for fire suppression system to be brought into the pod if needed. (There will be a sheet attached showing the location of those knockouts)

With the adjustable fan there are a variety of speeds to choose from depending on how many air changes the client desires per hour. (I am also attaching a sheet showing those ranges per enclosed pod) The way the fan works is it draws air from above the ceiling and blows it down into the unit. If desired, you can reverse the fan so that it is pulling the air out of the pod and fresh air is coming in from below the door.

For the pods that are not fully enclosed they have a louvered ceiling that eliminates the need for bringing fire suppression into the pod as it is 80% open and will meet any fire codes nationwide. You can also get this ceiling as an option versus the fully enclosed ceiling on our standard pods.

As far as acoustic ratings, each unit has a slightly different rating and attached you will find some of the standards. Privacy pods do not go by NRC or STC ratings since they are enclosed units, so they are actually measured by decibel ratings which the attached will show.

As far as electrical, as a standard we offer our pods with a standard wall plug in corded unit. This makes it easy to access your electrical, but if required we can offer a hard wire option.

IT SHOULD BE NOTED THAT ALL OF OUR BOOTHS ARE UL LISTED AS UL STD 962, WHICH IS A LISTING FOR THE ENTIRE UNIT NOT JUST THE ELECTRICAL INSIDE OF THE UNIT, THIS DISTINGUISHES US FROM MANY COMPETITORS. A COPY OF THE LISTING IS ATTACHED.

The fabric that we use is Mayer Fedora which was chosen for acoustic value, durability, fire retardancy and a multitude of color



choices. Attached you will find a full report related to the materials that we use and fire retardancy.

One of the other key features of our units compared to others is that when constructed the unit has no floor in it and sits on the clients existing floor. The reason for this construction, is that it only has a ½" threshold to step across or wheel across if in a wheelchair versus many of our competitors have a 4"-6" step up to step inside of the unit. Because of this minimal threshold, we have a variety of pods that meet ADA requirements with any additional ramps to be added.

See attached brochures for additional information.

# WARRANTY



## Conditional 5 Year Warranty (subject to exceptions at right)

Oasis Berco, LLC warrants its manufactured products are free of defects in design, material and workmanship for up to 5 years, for as long as the original purchaser owns them. If written notice of the defect is given to Oasis Berco, LLC within the applicable warranty period, Oasis Berco, LLC will repair or replace with comparable product, at Oasis Berco, LLC's choice, without charge to the original purchaser, which fails under normal use as a result of such defect.

OASIS BERCO, LLC'S LIMITED WARRANTY IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY SPECIFICALLY DISCLAIMED. OASIS BERCO, LLC WILL NOT BE RESPONSIBLE FOR CONSEQUENTIAL OR PUNITIVE DAMAGES. OASIS BERCO, LLC NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH THE SALE OF ANY ITEM OR ANY PART THEREOF.

## Exceptions

The following are exceptions from the 5 year warranty:

One Year Warranty: Laminate self-edges, Bar Stools

Twelve Year Warranty: Booths

Items not manufactured by Oasis Berco, LLC are covered by the Manufacturer Warranty, including: chairs, electrification, network accessories, laminate and solid surface material.

Exclusions From Warranty: Normal wear and tear; Customer's own material (COM); Any product that has been abused, altered or subjected to any use other than that which was originally intended; Any product cleaned with a solvent-based cleaner; Products that were not installed, used, or maintained in accordance with product instructions and warnings; Matching of color, grain and texture of wood due to natural variations, which cannot be controlled.

At Oasis Berco, LLC's sole discretion, we will repair or replace any item determined by Oasis Berco, LLC to be defective as a result of manufacturing defects. In no event shall liability under this warranty exceed the current depreciated price of the defective product.

# OASIS SPRINKLER KNOCK-OUTS

## BACKGROUND: NFPA 13 & IBC

NFPA 13 requires that sprinklers be provided throughout the premises. However, certain provisions permit sprinklers to be omitted from certain spaces where specific conditions are satisfied:

8.5.5.3 Obstructions That Prevent Sprinkler Discharge from Reaching the Hazard. Continuous or non-continuous obstructions that interrupt the water discharge in a horizontal plane more than 18 in. (457mm) below the sprinkler deflector in a manner to limit the distribution from reaching the protected hazard shall comply with 8.5.5.3.

The International Building Code (IBC) in Chapter 9 "Fire Protection Systems" 903.3 states:

"Automatic sprinklers shall be installed with due regard to obstructions that will delay activation or obstruct the water distribution pattern. Automatic sprinklers shall be installed in or under covered kiosks, displays, booths, concession stands, or equipment that exceeds 4 feet (1219mm in width)."



Oasis Linear Phone Booth  
Exterior: 45"w x 45"d x 89"h  
Interior: 39"w x 39"d x 83"h

Oasis Soft Phone Booth  
Exterior: 38"w x 38"d x 89"h  
Interior: 32"w x 32"d x 83"h

## OASIS PHONE BOOTHS

Both the Oasis Linear Phone Booth and the Oasis Soft Phone Booth were designed to fall under the NFPA guideline 8.5.5.3.

Both units are obstructions that are under 4 feet in any horizontal dimension and are not fixed in place. If the booth is at least 18" below the sprinkler deflector/discharge, then sprinklers are not required in these booths, according to NFPA 13.

*Note: Local fire codes vary and some may require sprinklers in the Oasis Phone Booth. Always consult with your local code officials prior to installation.*

## SPRINKLER KNOCK-OUTS

ALL Oasis units (including Oasis Linear and Soft Phone Booths, include one or more Sprinkler knock-outs to allow a sprinkler head to be dropped into the unit.

When no sprinkler is required, the knock-out is invisible to the eye. If a sprinkler is needed, a ceiling diagram will be provided allowing you to locate the knock-out. It can be easily knocked out by hand. Holes in the ceiling panels above the knock-out can be cut by your installer with commonly used tools.

For information about the number and location of sprinkler knock-outs in your unit, contact your Oasis Berco Customer Service Representative or email [sales@oasis-berco.com](mailto:sales@oasis-berco.com)




[oasis-berco.com](http://oasis-berco.com)  
[sales@oasis-berco.com](mailto:sales@oasis-berco.com)  
888-772-4788

### Sources:


BIFMA Pods-2020 Business & institutional Furniture Industry Guidance for Pods (September, 2020)  
NFPA Standard for the Installation of Sprinkler Systems, 2019 Edition.  
IBC Chapter 9 "Fire Protection Systems" section 903.3




Oasislinear

	# of Fans	FAN SETTING		
		<u>Low</u>	<u>Medium</u>	<u>High</u>
Linear Phone Booth	1	33 ACH	62 ACH	90 ACH


	Linear Studio	1	28 ACH	53 ACH	78 ACH
--	---------------	---	--------	--------	--------

	Linear Duo Pod	1	16 ACH	30 ACH	45 ACH
--	----------------	---	--------	--------	--------

	Linear Team Pod (Small)	1	12 ACH	22 ACH	32 ACH
--	-------------------------	---	--------	--------	--------


	Linear Team Pod (Large)	2	16 ACH	30 ACH	44 ACH
--	-------------------------	---	--------	--------	--------

Oasissoft

	# of Fans	FAN SETTING			
		<u>Low</u>	<u>Medium</u>	<u>High</u>	
	Soft Phone Booth	1	49 ACH	91 ACH	134 ACH

	Soft Duo Pod	2	17 ACH	32 ACH	47 ACH
--	--------------	---	--------	--------	--------

	Soft Team Pod (Small)	2	10 ACH	19 ACH	28 ACH
--	-----------------------	---	--------	--------	--------

	Soft Team Pod (Large)	3	13 ACH	24 ACH	35 ACH
--	-----------------------	---	--------	--------	--------

\*internal dimensions

# ACOUSTICS

- Will my conversation inside the booth/pod be understood by those outside?
  - Noise reduction (NR) expressed in decibels (dBA) at 2m (appx. 6.5 ft)
  - Privacy, correlated to % of sentence intelligibility, also at 2m (appx. 6.5 ft)

	NR at Door	NR at Side Wall	Speech Intelligibility %	Privacy Rating
Linear Phone Booth	32dB	33dB	0%	Confidential
Linear Duo Pod	32dB	35dB	0%	Confidential
Soft Phone Booth	26dB	31dB	0-5%	Confidential
Soft Team Booth (Large)	16dB	22dB	n/a	n/a
Soft Team Hub	n/a	20dB	n/a	n/a

# ACOUSTICS

- Is the booth quiet enough inside that I can focus?
  - Noise reduction (NR) expressed in decibels (dBA) at 2m (appx. 6.5 ft)

	Noise Reduction
Linear Phone Booth	29dB
Linear Duo Pod	32dB
Soft Phone Booth	23dB
Soft Team Booth (Large)	12dB
Soft Team Hub	19dB

# ACOUSTICS

- Tips for Maximizing Acoustic Performance / Speech Privacy
  - ❑ Pods perform better in areas with higher ambient sound levels (40dB or greater)
  - ❑ Be mindful of flooring; if pods are placed on wood or tile floors, add a carpet square for added sound absorption
  - ❑ Add sound absorbing furniture (soft seating vs. hard surfaces) when feasible to improve internal sound absorption
  - ❑ Ensure all gaskets are installed properly
  - ❑ Glass doors provide the lowest noise reduction; when possible, place glass doors away from “traffic” or listeners
  - ❑ Ensure fan is not turned to “off” position



# ETL INTERTEK LISTING



ALL Oasis Berco units are ETL/Intertek Listed, demonstrating compliance to UL STD 962 and CSA STD C22.2 #9.0.

This certification has been earned through rigorous independent testing and follow up inspections by an NRTL (Nationally Recognized Testing Laboratory). These tests and inspections are identical to those done by competing certification marks (UL, CSA, and others). The ETL Intertek lab is accredited by the same organizations, agencies, and regulatory bodies as UL.

ETL (Electrical Testing Labs) was founded by Thomas Alva Edison in 1896 and has a long history of providing assurance to consumers through product performance and safety testing.

Inspectors, code officials, and Authorities Having Jurisdiction all recognize the ETL Mark as proof of product compliance throughout North America.

---

If you have any questions about the ETL Intertek Mark, don't hesitate to contact your Oasis Berco Sales Representative or [sales@oasis-berco.com](mailto:sales@oasis-berco.com)

**OASIS-BERCO.COM**





Space to think

[www.oasis-berco.com](http://www.oasis-berco.com)





「Oasis of calm」

# 「Oasislinear」

The way we work has changed.

Creating an environment designed to work for you. Choose from the Phone Booth, Duo and Team Pods, and Team Booth designs for a stylish, flexible, and cost-effective solution.

Oasis Linear is designed with straight and bold edges, and crafted with acoustically absorbent fabric interior panels. Hydraulically closing doors quietly seal behind you, allowing you to concentrate and converse.







# Oasislinear

## Phone Booth

Privacy can be difficult to find in a modern, open plan office.

Providing a peaceful environment for phone calls or video conferences, the Oasis Linear Phone Booth is designed with your office in mind.

Equipped with top-of-the-line acoustically absorbent materials, LED lighting, and an air circulation fan, the space is practical and private, and made even more comfortable with the option to stand or sit.

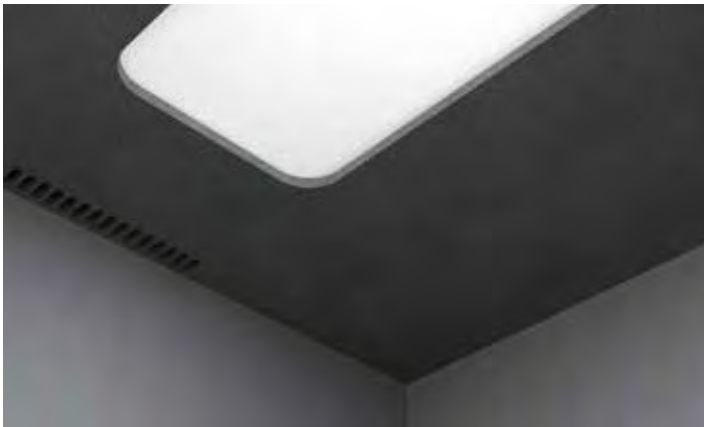
Unlike other systems, the Oasis Linear Phone Booth has no base and stands directly on your office floor for no trip hazard, quick installation, and easy relocation.



### Linear Phone Booth

**Exterior dimensions:** 45"(w) x 45"(d) x 89"(h)

**Interior dimensions:** 39"(w) x 39"(d) x 83"(h)



# Oasislinear

## Duo and Team Pod

Bring your team together.

Space for collaboration or private one-to-ones is always hard to find in a modern, open plan office environment; Oasis Linear Duo and Team Pods are the ideal solution.

Fully-enclosed units with a ceiling and glass rear wall, Pods stay light, airy, and fresh, yet private. With no compromise on comfort, the Pods include top-of-the-line acoustically absorbent materials, an LED ceiling light, air circulation fan, and occupancy sensor.



### Linear Duo Pod

**Exterior dimensions:** 84"(w) x 45"(d) x 89"(h)

**Interior dimensions:** 79"(w) x 39"(d) x 83"(h)



### Linear Team Pod (Small)

**Exterior dimensions:** 84"(w) x 59"(d) x 89"(h)

**Interior dimensions:** 79"(w) x 54"(d) x 83"(h)



### Linear Team Pod (Large)

**Exterior dimensions:** 84"(w) x 84"(d) x 89"(h)

**Interior dimensions:** 79"(w) x 79"(d) x 83"(h)



# 「Oasislinear」

## Team Booth

A space to suit you.

A room for your every need, the Oasis Linear Team Booth is completely versatile, with uses from small group work to presentations, video conferencing to break out room, or even a space for personal reflection, yoga, or meditation.

Space for three or more people, the open-front booth is enclosed with a full ceiling for privacy and the option to include glass panels, fitted workspaces, or low back sofas.

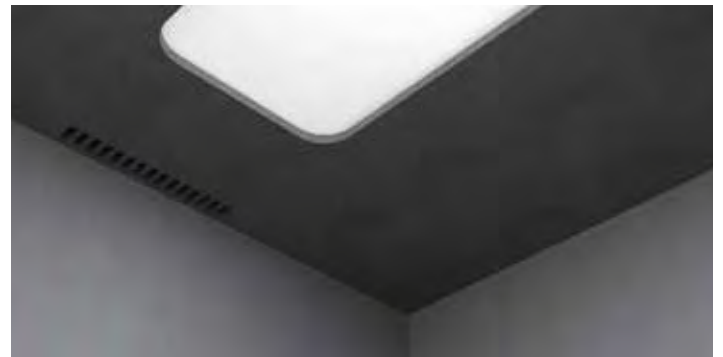


### Linear Team Booth

**Exterior dimensions:** 96"(w) x 83"(d) x 89"(h)

**Interior dimensions:** 90"(w) x 79"(d) x 83"(h)





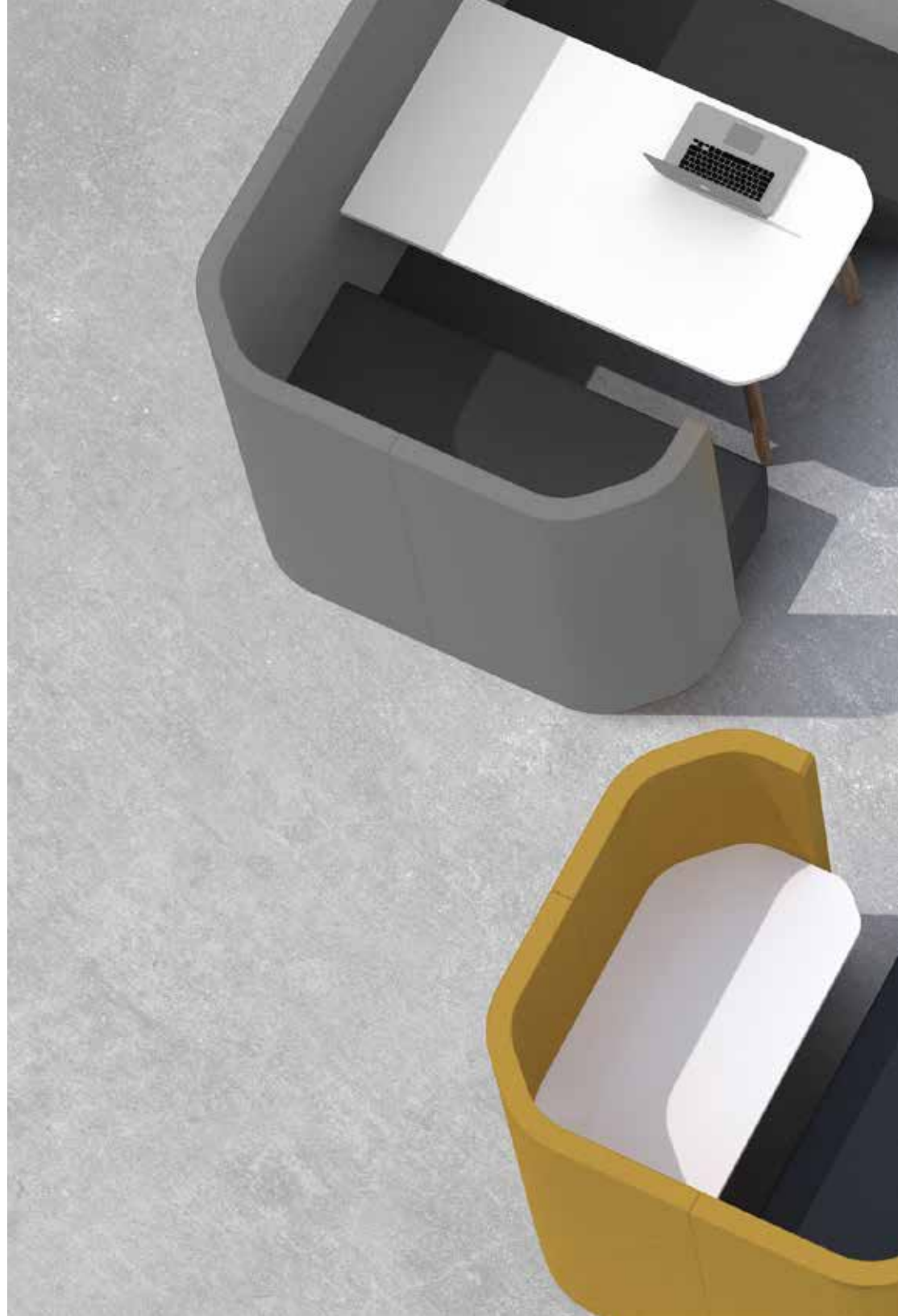
# Oasissoft

## Creating an environment designed to work for you.

The way we work has changed. Tranquility is hard to find in open plan offices. Oasis Soft offers a haven of calm in a collection of Hub, Booth, and Pod designs.

Oasis Soft is an upholstered product line designed to give a softer, more residential feel, providing smart, flexible, and adaptable spaces for your every need.

The line has soft lines and curves and acoustically absorbent panels. It is ideal for individual and collaborative work as well as for informal or formal meetings.









## Phone Booth

Privacy can be difficult to find in a modern open plan office.

Providing a peaceful environment for phone calls or video conferences, and a silent retreat for uninterrupted work, the Oasis Soft Phone Booth is designed with your office in mind.

Equipped with top-of-the-line acoustically absorbent materials, ambient lighting, and an air circulation fan, the space is practical and private yet comfortable.

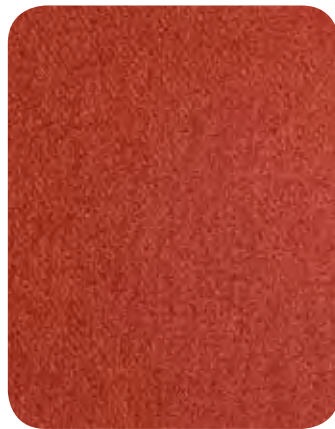
Unlike other systems the Phone Booth has no base and stands directly on the floor of your office, making it safe, quick to install, and easy to relocate.



### Soft Phone Booth

**Exterior dimensions:** 38"(w) x 38"(d) x 89"(h)

**Interior dimensions:** 32"(w) x 32"(d) x 83"(h)





## Hub

### Collaborate, work or socialize.

Collaborative and individual work, without distractions, is demanded by the modern day office environment.

Hub provides low-level open seating spaces and is available in Solo, Duo, and Team size options. Hub works with your existing open plan feel, with its acoustic panels ensuring increased privacy.

Options include integrated power and USB as well as stylish sofa and table options.



#### **Soft Solo Hub (Small)**

**Exterior dimensions:** 61"(w) x 45"(d) x 55"(h)

**Interior dimensions:** 55"(w) x 39"(d) x 55"(h)



#### **Soft Solo Hub (Large)**

**Exterior dimensions:** 61"(w) x 53"(d) x 55"(h)

**Interior dimensions:** 55"(w) x 47"(d) x 55"(h)



#### **Soft Duo Hub**

**Exterior dimensions:** 100"(w) x 45"(d) x 55"(h)

**Interior dimensions:** 94"(w) x 39"(d) x 55"(h)



#### **Soft Team Hub**

**Exterior dimensions:** 100"(w) x 61"(d) x 55"(h)

**Interior dimensions:** 94"(w) x 55"(d) x 55"(h)







## Booth

Break away from the norm.

A room within a room, the open-front booth has no door, allowing this semi-private space to be used for multiple purposes, from impromptu meetings to informal breakout sessions.

The booth's distinctive and functional louvre ceiling is 88% open, allowing both light and sprinklers to filter through, bringing the space into easy compliance with fire codes.



### Soft Duo Booth

**Exterior dimensions:** 100"(w) x 45"(d) x 91"(h)

**Interior dimensions:** 94"(w) x 39"(d) x 85"(h)



### Soft Team Booth (Small)

**Exterior dimensions:** 100"(w) x 61"(d) x 91"(h)

**Interior dimensions:** 94"(w) x 55"(d) x 85"(h)



### Soft Team Booth (Large)

**Exterior dimensions:** 92"(w) x 92"(d) x 91"(h)

**Interior dimensions:** 85"(w) x 85"(d) x 85"(h)





## Pod

### Meeting your needs.

Formal meetings are essential, but at times difficult to bear. The fully-enclosed Pod has features that can create a more comfortable, private experience. From an air circulation fan to a sliding door and glazed panels, the Pod stays light, airy, and fresh.

The Oasis Soft Pod is a fully-enclosed space for complete privacy, and is available in both Duo and Team sizes.



#### Soft Duo Pod

**Exterior dimensions:** 112"(w) x 61"(d) x 89"(h)

**Interior dimensions:** 106"(w) x 55"(d) x 83"(h)



#### Soft Team Pod (Small)

**Exterior dimensions:** 112"(w) x 100"(d) x 89"(h)

**Interior dimensions:** 106"(w) x 94"(d) x 83"(h)

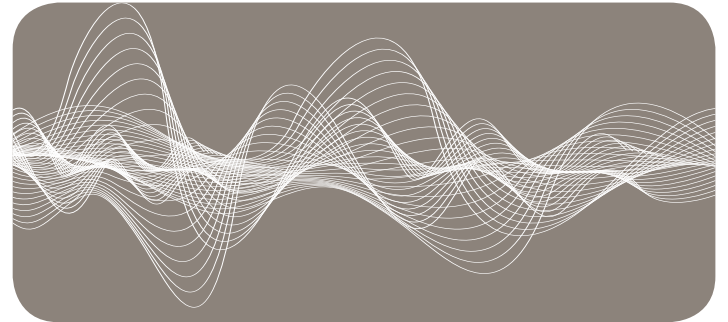
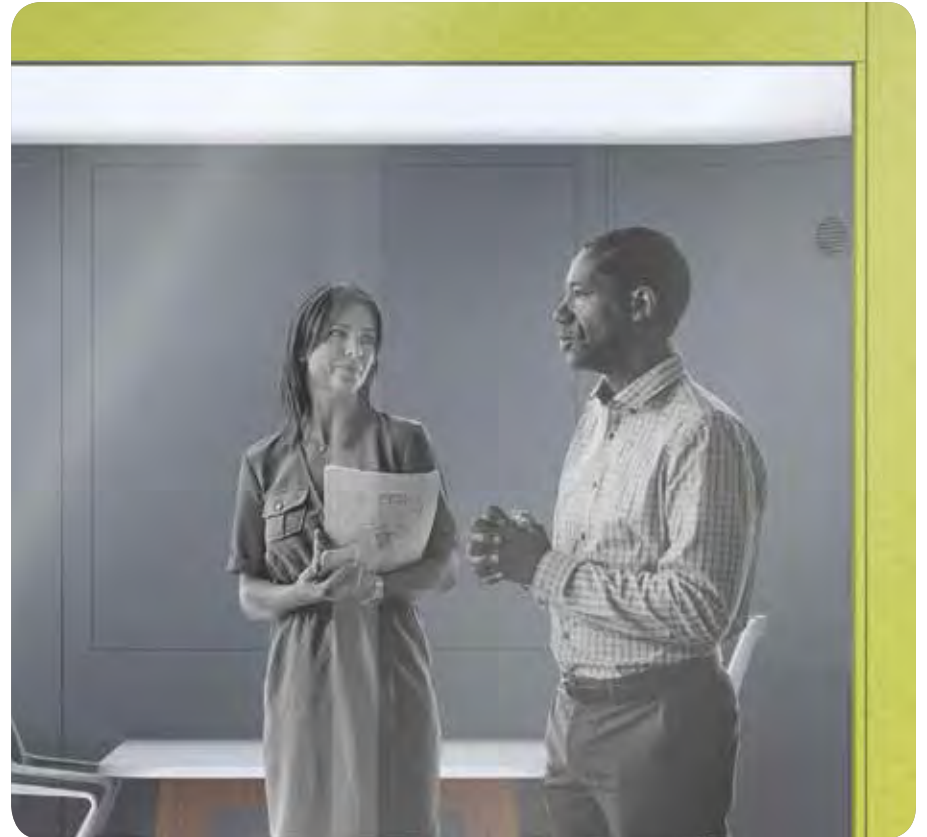


#### Soft Team Pod (Large)

**Exterior dimensions:** 120"(w) x 108"(d) x 89"(h)

**Interior dimensions:** 114"(w) x 102"(d) x 83"(h)





# 「Linear Acoustics」

Acoustic control for peace and privacy.

The Oasis Linear Phone Booth and Pod provide the perfect space for communication to take place, ensuring all conversations remain private.

- Acoustic lined speech panels absorb high frequency sounds and reduce reverberation, making it a pleasant and comfortable environment
- The 3" thick locking walls have been crafted with a combination of top-of-the-line materials to interrupt sound on its path in and out of the unit
- The unit's glass doors and walls further reduce noise levels
- The air circulation fan keeps the booth fresh and creates ambient noise to cover sound from within the booth, making speech inaudible



# Soft Acoustics



Acoustic control for peace and privacy.

Oasis Soft provides the perfect space for important meetings, phone calls, informal breakouts, and collaborative work

- The acoustically absorbent multi-layer panel system results in an increase in speech privacy by reducing excessive reverberation within the space
- The hard surface on the panel exterior, combined with the 2.5mm rubber layer helps block the transmission of unwanted sound from the outside
- The combination of both absorption and blocking results in a much more comfortable working environment
- On the Soft Phone Booth and Soft Pod, glass doors and walls add to the units' noise-reduction capabilities



Need help, have a question, or want  
to explore the possibilities?

We would love to hear from you.

**Office Address:**

111 Winnebago Street  
St. Louis, MO 63118

**Phone:**

888-772-4788  
314-772-4700

**Shipping Address:**

3700 Cleon Street  
St. Louis, MO 63118

**Fax:**

888-772-4789  
314-772-2744

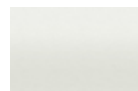
[www.oasis-berco.com](http://www.oasis-berco.com)  
[sales@oasis-berco.com](mailto:sales@oasis-berco.com)



MADE IN THE USA

## Standard Finishes

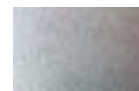
### Standard Powder Coats



Snow



Dusty Ash



Silver Texture



Chrometal



Graphite



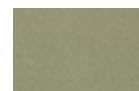
Gunmetal



Ebony



Black Wrinkle



Champagne



Mink

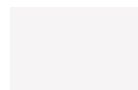


Wasabi



Tranquil

### Standard Laminates



White



Zen Gray



Fog



Graphite



Chelsea Maple



Cognac Maple



Natural  
Walnut



Bleached  
Legno



Smokey Brown  
Pear



Cherry  
Heartwood



Acajou  
Mahogany



Blackened  
Legno

### Standard Fabrics



Chrome



Platinum



Mineral



Zinc



Caviar



Truffle



Honey



Apple



Marmelade



Poppy



Lagoon



Cobalt

### Standard Wood Stains



Natural



Light Cherry



Cherry



AB Cherry



JITB



Dark Walnut



Mahogany

Oasis-Berco Material & Electrical Technical Specifications  
& Fire Rating Documentation  
*Updated January, 2019*



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# GREENWICH

The Modern Look and Feel of Wool Felt



## APPLICATIONS

Hospitality, Contract/Office, Residential

Upholstery

## SPECIFICATIONS

- Content: 100% Polyester
- Weight: 15/16 oz per linear yard
- Abrasion: 100,000+ Double Rubs Wyzenbeek
- Seam Slippage: 96.7 Warp 120.6 Fill
- F/R: Cal 117, NFPA 260

## FINISH

- Stain Repellant
- Backing

## Design

- The luxurious look and feel of wool felt
- 25 sophisticated colors, ideally suited for contemporary hospitality, office, education and residential environments
- Usable in any design setting and perfect companion to patterned fabrics

## Performance

- Meets or exceeds ACT standards
- Crafted for commercial upholstery
- Superior abrasion resistance & seam slippage
- Stocked with stain repellent

## Availability

- Available from stock
- Warehoused in New Jersey
- Custom colors available; minimum 500 yards; 10 week delivery
- 60 yard rolls

# NASSIMI | TEXTILES

Pattern : Greenwich

## Product Specification Sheet

Date: 3/5/2015

### Description

Weight ( <i>linear yard</i> )	15/16 oz/Linear yard
Width	54"
Picks per inch	224 Warp    221 Fill
Yarn Size	400D Warp    400D Fill
Finish	Stain Repellent
Backing	SBR
Composition	100% Polyester

Cleaning Code	S	Spot clean using a water-free solvent or dry cleaning product. Cleaning by a professional service is recommended.
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### Physical Properties

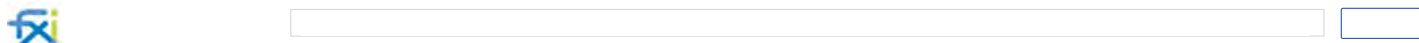
Abrasion Resistance	100,000+ Double Rubs	(CFFA-1A / Method ASTM D 4157-10)
Breaking Strength and Elongation	334 Warp    109 Fill	(CFFA /Method ASTM 5034)
Brush Pill	Class 5	(CFFA-16b / ASTM D3511)
Seam Slippage	96.7 Warp    120.6 Fill	(CFFA-14 / Method ASTM D4034-92)
Tear Strength	28 Warp    12.7 Fill	(ASTM D2261-13)
Colorfastness to Crocking	4.5 Dry    5 Wet	(AATCC 8)
Colorfastness to Light	Class 4.5    40 Hours	(CFFA-2/AATCC16 Option 3)

### Flame Retardancy

California Technical Bulletin 117	Pass
NFPA 260	Pass

<b><u>Tariff Code</u></b>	5407.52.2060
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ARESTO™

- PRODUCTS
- ACOUSTICS

AEROFONIC®

ARESTO™

DURASORB™

HYFONIC™

HYFONIC™ NATURAL

PYRELL®

QUIET TIRE™ TECHNOLOGY

QYLITE® 200 & 400
- AUTO/TRANSPORTATION

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Absorbing and Insulating Foam UL 94 HF-1



FXI acoustical solutions are engineered to perform multiple functions including sound absorption and vibration damping. FXI low-density foams are ideal for sound absorption while higher-density or lower permeability foams work well for damping. Complementing their acoustic capabilities, all FXI foams are moldable and meet various fire and performance requirements. Additionally, these acoustic technologies can withstand varying operating temperatures and offer insulation performance for different industry applications. FXI acoustical solutions provide efficiency, reliability, and predictability in high-stress environments and applications over time, while simplifying handling, manufacturing and assembly, to reduce overall costs for sound and vibration reduction solutions.



RESOURCES

- [VPF™](#)
- [SMT™](#)

CONTACT US

[Questions, Information, RFQ,](#)  
[Samples and Data Sheets](#)

OVERVIEW

ARESTO™ is a fire-retardant, flexible polyester polyurethane foam which has been designed for applications where flammability characteristics must meet standards such as Department of Transportation Motor Vehicle Safety Standards FMVSS-302 or Underwriters Laboratories Classification UL 94 HF-1.

BENEFITS

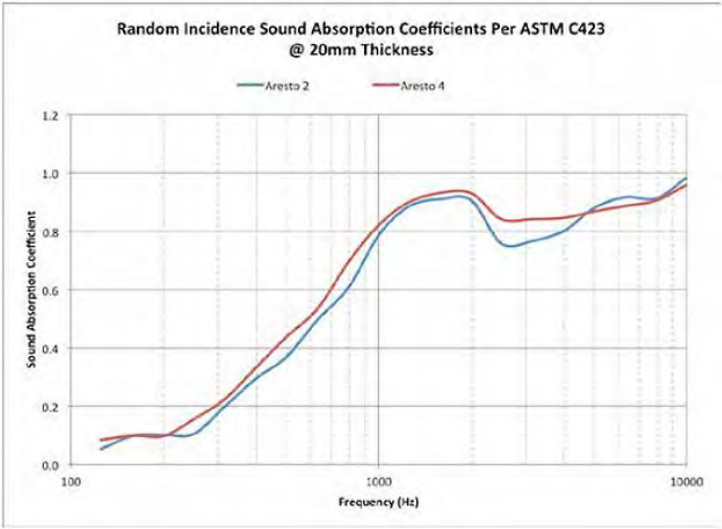
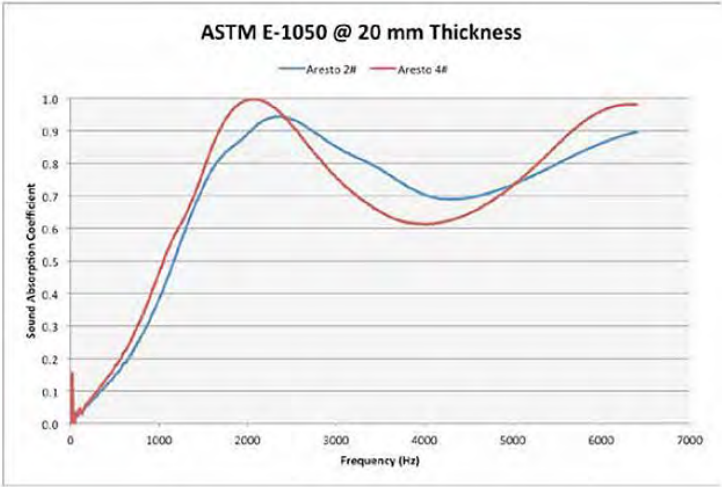
- Excellent lamination ability
- Versatility on a wide range of NVH
- Superb sound absorption
- Available in several densities

APPLICATIONS

- Vehicle engine covers and hood liners
- Absorption blankets and panels for appliances such as dishwashers and refrigerators
- Class 8 truck cabs
- Off-highway equipment cabs
- Industrial machinery and generator
- Anechoic & semi-anechoic chambers
- Recording studios and home theater acoustic treatment applications

Flammability Performance													
FRI Test UL 94 HF-1													
Thermal Properties													
Foam Code	Density lb/in <sup>3</sup>	Pore Size µm	Permeability 0.00012	Tensile psi	Tear lb/in	Elongation %	GF 25% psi	GF 45% psi	Clickability	Comp. Set 50%	TEC	SAA	R Value m <sup>2</sup> /W
Areto 2#	2.0	70	70	20	2.5	190	11	0.8	Good	10	0.45	0.5	0.561
Areto 4#	4.0	70	70	23	3.4	330	61.83	1.1	Good	5	0.55	0.56	0.520

Test procedure ASTM D-3574.1 \*\*Pore size not determined by ASTM procedure.  
\*Typical physicals not to be used for specification purposes. Please contact your account rep for specification information.





# Acoustical Surfaces, Inc.

**SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS**

123 Columbia Court North • Suite 201 • Chaska, MN 55318

(952) 448-5300 • Fax (952) 448-2613 • (800) 448-0121

Email: [sales@acousticalsurfaces.com](mailto:sales@acousticalsurfaces.com)

Visit our Website: [www.acousticalsurfaces.com](http://www.acousticalsurfaces.com)

**We Identify and S.T.O.P. Your Noise Problem**

## NOISE S.T.O.P.™ VINYL BARRIER

### Mass Loaded Vinyl Noise Barrier

- **Reduces Sound Transmission**
- **Contains Noise**
- **Improves Communications**
- **Improves Health & Safety**



**MATERIAL:** Mass Loaded Vinyl.

**PATTERN:** Smooth Finish.

**FEATURES:** High density, limp material to reduce noise transmission.

**APPLICATIONS:** Reduced noise transmission through ceilings, walls, floors, machinery enclosures, ductwork. Apply over suspended ceilings on studs or joists.

**SIZE:** 54" Wide x 20', 30', 60' Rolls - 2'x2', 2'x4' Sheets. Die cutting available.

**THICKNESS:** 1/16" - 1/2 lb./sq.ft. 1/8" - 1 lb./sq.ft. 1/4" - 2 lb./sq.ft.

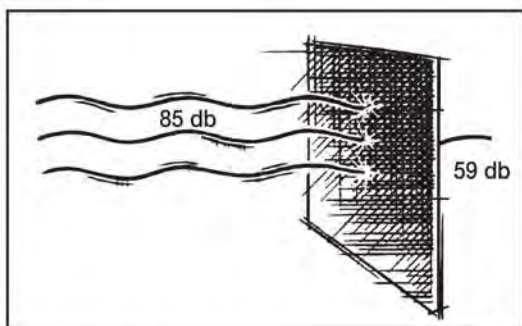
**COLOR:** Black, Grey (Reinforced), Tan and Clear (Transparent or Translucent).

**INSTALLATION:** Material can nailed, glued, screwed, stapled or can be reinforced and grommeted and hung like a curtain.

**FLAMMABILITY: UL94VO**

#### Mass Loaded Vinyl Noise Barrier™ – Sound Absorption / Noise Reduction

Barriers	Noise Transmission Loss (dB) Per Octave Band (HZ)						
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	STC
2 lb. psf	16	22	26	32	35	40	31
1.25 lb. psf	14	18	24	27	33	38	28
1 lb. psf	13	17	22	26	32	37	27
1/2 lb. psf	8	13	17	22	27	31	20



Continued on next page.

• Soundproofing Products • Sonex™ Ceiling & Wall Panels • Sound Control Curtains • Equipment Enclosures • Acoustical Baffles & Banners • Solid Wood & Veneer Acoustical Ceiling & Wall Systems  
 • Professional Audio Acoustics • Vibration & Damping Control • Fire Retardant Acoustics • Hearing Protection • Moisture & Impact Resistant Products • Floor Impact Noise Reduction  
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# Acoustical Surfaces, Inc.

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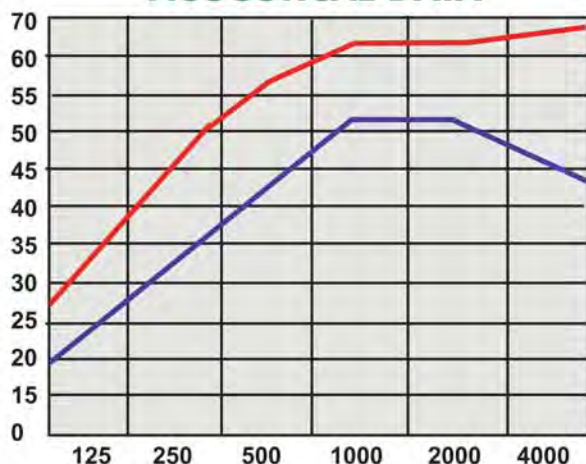
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Email: [sales@acousticalsurfaces.com](mailto:sales@acousticalsurfaces.com)

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**We Identify and S.T.O.P. Your Noise Problem**

## ACOUSTICAL DATA



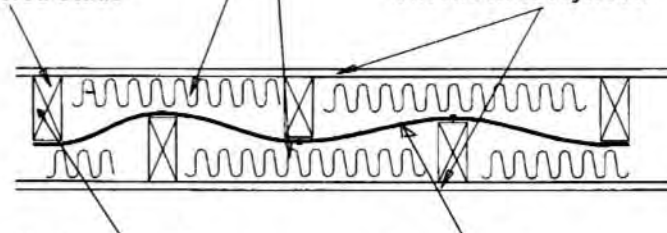
— Standard Wall Construction STC 41  
— Vinyl Barrier Treated Wall STC 50

## UltraTouch Stud Assembly

“Standard” Building Insulation

“Staggered Studs”

Sheetrock or Plywood



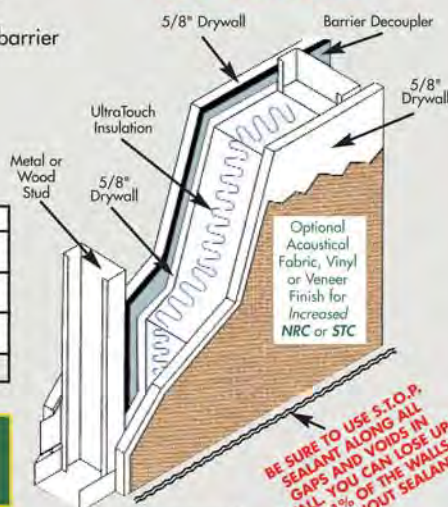
Wood or Metal Stud

Barricade Noise Barrier

## ASI Pro Audio's Suggested Retrofit Wall Construction System

1. Fill area between studs with UltraTouch insulation, 3" or 5".
2. Glue 1.25 lb. sq. ft. barrier to back of drywall.
3. Install drywall.
4. Use A.S.I. Acoustic Sealant on gaps in drywall.

### Acoustical Treated Retrofit Wall Construction



Part #	Description
SSR-1916	UltraTouch Insulators
STOP SEAL-29	29 Oz. Sealant
1.25B-20R	Noise S.T.O.P. Vinyl Barrier
RSIC	RSIC Clips

**Wall System  
Estimated  
STC 49**

\*NOTE: use of RSIC-1 clips and hat channel with another layer of 1/2" drywall could increase STC to 67



RSIC CLIP

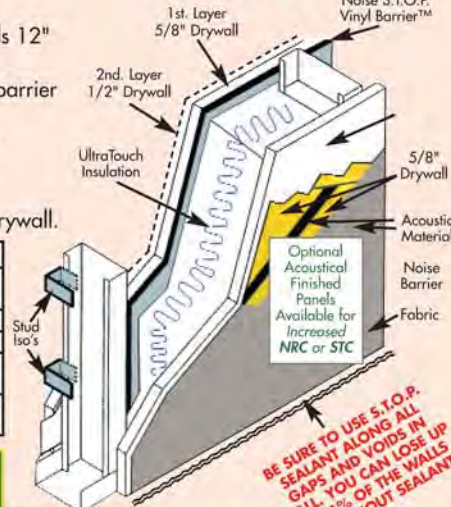
**BE SURE TO USE S.T.O.P. SEALANT ALONG ALL GAPS AND VOIDS IN WALL YOU CAN LOSE UP TO 11% OF THE WALLS STC WITHOUT SEALANT.**

**Proudly Made in the USA**

## ASI Pro Audio's Suggested New Wall Construction System

1. Fill area between studs with UltraTouch insulation, 3" or 5".
2. Stud insulators on studs 12" to 16" on center.
3. Glue 1.25 lb. sq. ft. barrier to back of drywall.
4. 2nd layer of drywall (if possible).
5. Use A.S.I. Acoustic Sealant on gaps in drywall.

### Acoustical Treated New Wall Construction



Part #	Description
SSR-1916	UltraTouch Insulators
SI OR RSIC	Stud Insulators or RSIC Clips
STOP SEAL-29	29 Oz. Sealant
1.25B-20R	Noise S.T.O.P. Vinyl Barrier

**Wall System  
Estimated  
STC 57**

\*NOTE: use of RSIC-1 clips and hat channel could increase STC to 67



STUD ISO



RSIC CLIP

**BE SURE TO USE S.T.O.P. SEALANT ALONG ALL GAPS AND VOIDS IN WALL YOU CAN LOSE UP TO 11% OF THE WALLS STC WITHOUT SEALANT.**

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# Acoustical Surfaces, Inc.

**SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS**

123 Columbia Court North • Suite 201 • Chaska, MN 55318

(952) 448-5300 • Fax (952) 448-2613 • (800) 448-0121

Email: [sales@acousticalsurfaces.com](mailto:sales@acousticalsurfaces.com)

Visit our Website: [www.acousticalsurfaces.com](http://www.acousticalsurfaces.com)

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***We Identify and S.T.O.P. Your Noise Problems***



February 21, 2013

Our Reference: SV19452/13CA09185

Subject: Report Of Surface Burning Characteristics Tests On Samples

This is a Report summarizing the results of a test conducted under the Commercial Inspection and Testing Services (CITS) program of UL LLC (UL) identified as Assignment NO. 13CA09185

**GENERAL:**

The results relate only to items tested.

**METHOD:**

Each test was conducted in accordance with Standard ANSI/UL723, Tenth Edition, dated September 13, 2010, "Test for Surface Burning Characteristics of Building Materials", (ASTM E84-11).

The test determines the Surface Burning Characteristics of the material, specifically the flame spread and smoke developed indices when exposed to fire.





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***We Identify and S.T.O.P. Your Noise Problem***

The maximum distance the flame travels along the length of the sample from the end of the igniting flame is determined by observation. The Flame Spread Index of the material is derived by plotting the progression of the flame front on a time-distance basis, ignoring any flame front recession, and using the equations described below:

A.  $CFS = 0.515 A_T$  when  $A_T$  is less than or equal to 97.5 minute-foot.

B.  $CFS = 4900/(195-A_T)$  when  $A_T$  is greater than 97.5 minute-foot.

Where  $A_T$  = total area under the time distance curve expressed in minute-foot.

The Smoke Developed Index (SDI) is determined by rounding the Calculated Smoke Developed (CSD) as described in UL 723. The CSD is determined by the output of photoelectric equipment operating across the furnace flue pipe. A curve is developed by plotting the values of light absorption (decrease in cell output) against time. The CSD is derived by expressing the net area under the curve for the material tested as a percentage of the area under the curve for untreated red oak.

The CSD is expressed as:

$$CSD = (A_m/A_{ro}) \times 100$$

Where:

CSD = Calculated Smoke Developed

$A_m$  = The area under the curve for the test material.

$A_{ro}$  = The area under the curve for untreated red oak.

## SAMPLES:

The white barrier sample utilized in this investigation was neither prepared nor selected by a Laboratories' representative such that no verification of composition can be provided.

### Sample Description

Test No.	System
1	TBC Class A MLV

Each test sample was supported by 2 in. hexagonal poultry netting supported by 1/4 in. diameter steel rods spaced 2 ft apart.

## RESULTS:

The results are tabulated below are considered applicable only to the specific samples tested.

Data sheets and graphical plots of flame travel versus time and smoke developed versus time are also enclosed.





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***We Identify and S.T.O.P. Your Noise Problem***

Table 1: Test Summary

Test No.	Test Code	Sample Description	CFS Calculated Flame Spread	FSI Flame Spread Index	CSD Calculated Smoke Developed	SDI Smoke Developed Index
1	02201313	TBC Class A MLV	11.26	10	51.9	50

The Classification Marking of UL on the product is the only method provided by UL to identify products which have been produced under its Classification and Follow-Up Service. No use of a Classification Marking has been authorized as a result of this investigation.

Since the anticipated work has been completed, we have instructed our Accounting Department to terminate the investigation and invoice you for the charges incurred to date.

Should you have any questions, please contact the undersigned.

Very truly yours

James Smith (ext. 42666)  
Staff Engineering Associate  
Fire Protection Division

Reviewed by:

Randall Laymon (ext. 42687)  
Senior Staff Engineer  
Fire Protection Division



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***We Identify and S.T.O.P. Your Noise Problems***

Project: 13CA09185  
Tested by: SCOTT KNIGHTON

File: SV19452  
Engineer: JAMES SMITH

TestCode: 02201313  
Date: 2013-02-20

TEST METHOD: The test was conducted in accordance with UL 723, Tenth Edition.

Test Duration 10 minutes  
Mounting: Rods & Wire

Test No.: 1  
Test Type: CITS

Hot Test: No  
Burn-Out Required: No

**Test Sample:** TBC Class A MLV

## FLAME SPREAD RESULTS

### Flame Spread Data

Distance (Feet)		Time (Sec)
Ignition		54
0.5		70
1		76
1.5		80
2		82
2.5		84

Calculated Flame Spread (CFS): 11.26  
Flame Spread Index (FSI): 10

Time to Ignition (sec): 54  
Maximum Flame Spread (ft): 2.5  
Area Under the Flame Spread Curve (ft.-min): 21.9

## SMOKE RESULTS

Calculated Smoke Developed (CSD): 51.9  
Smoke Developed Index (SDI): 0

Area Under the Smoke Curve (Obs.-min.): 41.76  
Area Under Red Oak Curve (Obs.-min.): 0.45

## Post-Test Observations

Discoloration (Feet From Burner): 24  
Char (Feet From Burner): 10.5

ULS-00723-BIKT-DataSheet-2001  
Form Page 4

Form Issued: 2004-01-28  
Form Revised: 2007-15-10

Form Copyright © 2012 UL LLC

Only those products bearing the UL mark should be considered as being covered by UL

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• Soundproofing Products • Sonex™ Ceiling & Wall Panels • Sound Control Curtains • Equipment Enclosures • Acoustical Baffles & Banners • Solid Wood & Veneer Acoustical Ceiling & Wall Systems  
• Professional Audio Acoustics • Vibration & Damping Control • Fire Retardant Acoustics • Hearing Protection • Moisture & Impact Resistant Products • Floor Impact Noise Reduction  
• Sound Absorbers • Noise Barriers • Fabric Wrapped Wall Panels • Acoustical Foam (Egg Crate) • Acoustical Sealants & Adhesives • Outdoor Noise Control • Assistive Listening Devices  
• OSHA, FDA, ADA Compliance • On-Site Acoustical Analysis • Acoustical Design & Consulting • Large Inventory • Fast Shipment • No Project too Large or Small • Major Credit Cards Accepted



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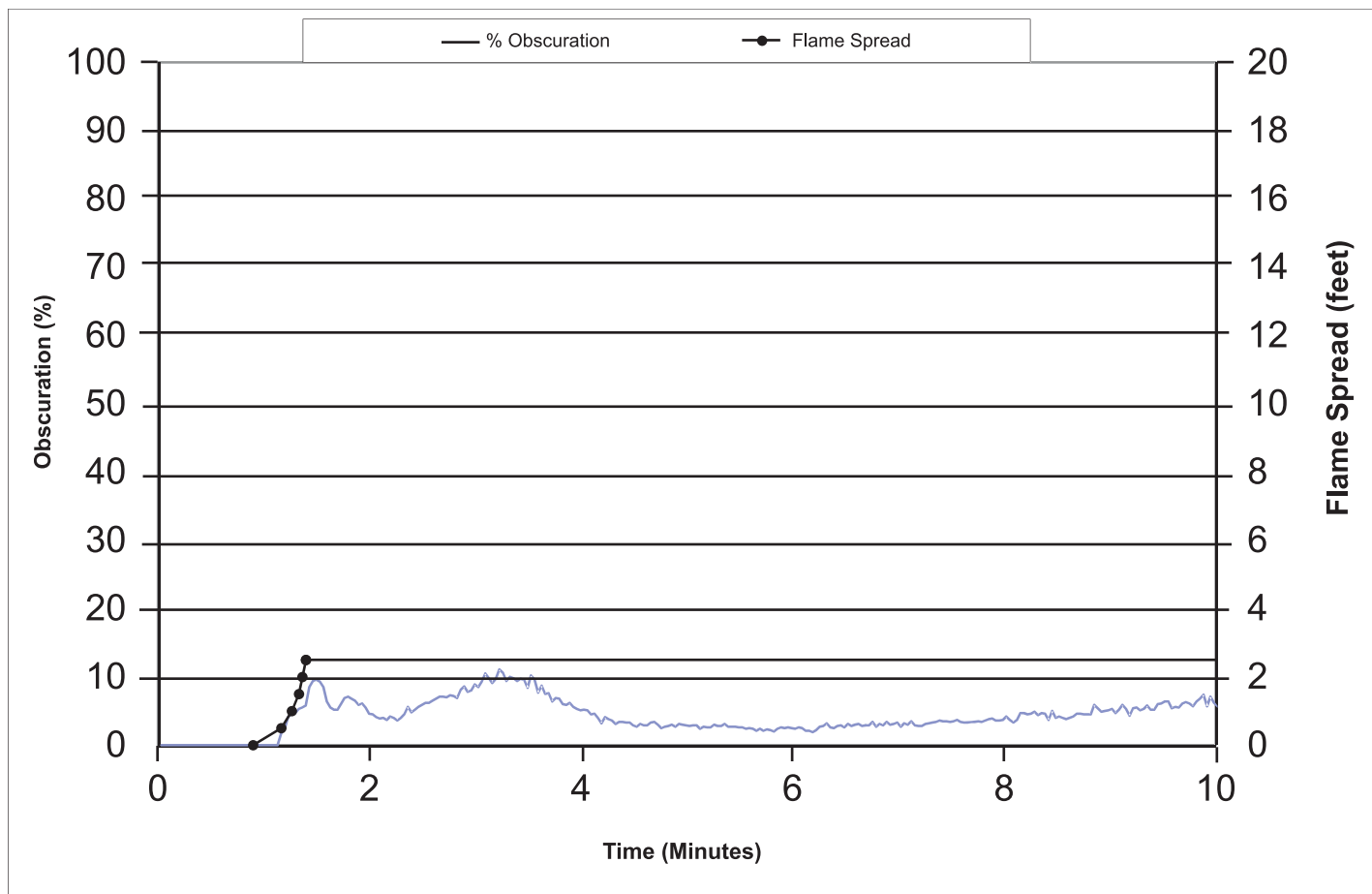
Email: [sales@acousticalsurfaces.com](mailto:sales@acousticalsurfaces.com)

Visit our Website: [www.acousticalsurfaces.com](http://www.acousticalsurfaces.com)

**We Identify and *S.T.O.P.* Your Noise Problems**

## Flame Spread / Smoke Results

TBC Class A MLV



Test Num.: 1  
SV19452 / 13CA09185  
02201313

Flame Spread Index: 10  
Smoke Developed Index: 50  
Max. Flame Spread (ft.): 2.5



# EZOBORD SPECIFICATIONS

## Colors

15 standard colors in both  $\frac{3}{8}$ " (9mm) &  $\frac{1}{2}$ " (12mm). Colors vary by thickness.

## Composition

100% Polyester (min 50% (+/-) recycled PET fiber).

## Thickness

Available in two thicknesses:

- $\frac{3}{8}$ " (9mm)
- $\frac{1}{2}$ " (12mm)

## Weight

- $\frac{3}{8}$ " (9mm) sheet: 8.5lbs (+/- 5%)
- $\frac{1}{2}$ " (12mm) sheet: 16lbs (+/- 5%)

## Stiffness

70 (Shore Durometer) minimum

## Dimensions

- $\frac{3}{8}$ " (9mm) sheet: 48" (1219mm) x 96" (2439mm) (+/- 1mm)
- $\frac{1}{2}$ " (12mm) sheet: 48" (1219mm) x 96" (2439mm) (+/- 1mm) standard sizing. 48" (1219mm) x 108" (2750mm) (+/- 1mm) available in select colors.

## Fire Testing

- North America: ASTM E-84 Class A / CAN ULC S102-10
- Europe and UK: EN13501-1: 2007

## Environment

Made with recycled polyester fiber, 50% +/- of which comes from recycled water bottles which contributes towards LEED MR Credit and BREEAM Health and Wellbeing, Materials points due to recycled content, acoustic performance, and no VOC's.

## Acoustics

Refer to ASTM C423 test chart for specific absorption rates/frequency.

- $\frac{3}{8}$ " (9mm): NRC 0.75 (subject to mounting conditions)
- $\frac{1}{2}$ " (12mm): NRC 0.85 (subject to mounting conditions)

## Applications

Wall and ceiling, tackboards, visual and acoustical privacy barriers, acoustic canopies, and other custom applications.

## Product Variances

Variation in fiber mix and colour may occur. All products will be supplied within commercial tolerances.

## General

Tackable, impact resistant, bacteria resistant, moisture resistant, installation friendly.



[www.ezoBord.com](http://www.ezoBord.com)

## USA

Vervia Inc.  
325 Corporate Drive  
Elgin IL 60123  
☎ 1-847-379-1822  
✉ [sales@vervia.net](mailto:sales@vervia.net)

## CANADA

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825 Trillium Drive  
Kitchener ON N2R 1J9  
☎ 1-844-441-1122  
✉ [sales@ayrsonics.com](mailto:sales@ayrsonics.com)

## UNITED KINGDOM

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Discovery Park Limited  
Innovation House  
Ramsgate Road, Sandwich  
Kent, CT13 9FF  
☎ + 44 7981 111236  
✉ [sales@ezobord.co.uk](mailto:sales@ezobord.co.uk)

# William T. Burnett & Co. PRODUCT

## FOAM DIVISION SPECIFICATIONS

### FLER4 POLYETHER POLYURETHANE FOAM

#### PHYSICAL PROPERTIES\*

#### TEST VALUES\*

#### U.S. STANDARD

#### METRIC

#### MINIMUM

#### AVERAGE

#### MINIMUM

#### AVERAGE

Density

1.90 ± 10 % lbs./ft.<sup>3</sup>

30.4 ± 10 % kg/M<sup>3</sup>

X

Tensile Strength

20.0 psi

20.0 psi

138 kPa

138 kPa

X

Elongation

180%

300%

180%

300%

X

Tear Resistance

1.50 pli

3.00 pli

263 N/M

525 N/M

X

Indentation Force Deflection

25% Deflection

30 lbs./50 in.<sup>2</sup>

40 lbs./50 in.<sup>2</sup>

133 N/323cm<sup>2</sup>

178

N/323cm<sup>2</sup>

65% Deflection

55 lbs./50 in.<sup>2</sup>

80 lbs./50 in.<sup>2</sup>

245 N/323cm<sup>2</sup>

356

N/323cm<sup>2</sup>

X

Retention of Tensile Strength after  
5 hours, 120°C, steam autoclave

Min. 70%

Retention of Tensile Strength after  
22 hours, 140°C, dry heat aging

Min. 70%

X

Air Flow

0.50 ft<sup>3</sup> / 4 in<sup>2</sup> / min

5.49 m<sup>3</sup> / m<sup>2</sup> / min

X

Flammability Characteristics: §

• Meets the requirements of S4.3 of Federal Motor Vehicle Safety Standard No. 302.‡

X

Features:

- This product meets the basic foam physical requirements of General Motors Engineering Standard GM6291M type 1.
- This product meets the performance requirements of Chrysler Engineering Standards MS-AY309 and MS-AY313.
- Minimum IFD at 20 mm (0.79 in) 20 lbs/50 sq in; max 30
- General Motors Material Specification approval January, 1999

Molded

Urethane Foam.

of

‡ FMVSS 302 is a test procedure that specifies the burn resistance requirements for material used in the occupant compartments of motor vehicles.

§ The flammability test(s) described in this specification is/are small scale test procedure(s) performed under controlled laboratory

CFC's are not used in the manufacturing of Wm. T. Burnett & Co. polyurethane foams.

Edition

11/17/2005

FOAM DIVISION:

2112 Montevideo Road • Jessup, MD 20794 • Tel: 410.799.1788 • Toll Free: 800.638.0606 • Fax: 410.799.2620



# FORMICA® LAMINATE BY FORMICA GROUP/FIRE-RATING ASTM E-84, NFPA 255 TECHNICAL BRIEF



## FIRE-RATED PANEL ASSEMBLIES

Formica Corporation conducts and maintains an active fire testing program to provide code regulators, architects, and product designers with current information on a variety of panel assemblies and to eliminate the necessity for fabricators to run fire tests on their own. Various combinations of surface laminates and backers, including both fire-rated grades and standard laminates, were assembled and tested using different substrate and adhesive combinations. All data is grouped, based on flame spread values, into one of the following classifications:

### CLASSIFICATION

(A): 0-25

(B): 26-75

(C): 76-200

Classifications for interior finish codes are generally based on these flame spread ranges, which are relative values. The requirement for smoke-developed values is usually set at a maximum value of 450 in most codes. Due to the variety of codes, specifiers should check with the local regulatory authority for specific requirements in the area where the panels will be installed.

All reports on test data or other technical data apply only to the actual panel assembly (substrate, adhesive, and laminate) or panel assemblies tested, and not to any similar material or product, nor to any production run of such material or product. Different test results can occur based different test conditions, substrates, adhesives, and testing methods or standards. Users of published information about test data or other technical data should carefully review the description of actual specimens tested and test information provided or available from the manufacturer or testing agency. Manufacturer disclaims any legal responsibility with respect to such data and technical data.

Formica Corporation hereby states that the products listed below have been tested for conformity with an "Independent Third Party Testing Agency" and that those test results confirmed compliance with the above-referenced standard as of the test date.

Any information or suggestion provided by Manufacturer concerning applications, specifications or compliance with codes or standards relating to Formica® Brand Products is provided solely for your convenient reference and without any representation as to accuracy or suitability. Manufacturer disclaims any legal responsibility with respect to such information or suggestions. The user must independently verify and test the suitability of any information or products for their own particular purpose or specific application.

The Product is further described in Manufacturer's most current product warranty, use and test information located at [www.formica.com](http://www.formica.com), which is the only authorized source for published technical information about Formica Brand Products. Due to the variety of uses and applications to which Formica Brand Products may be put, Manufacturer can make no warranty that this product is suitable for any particular purpose, and can make no other warranties, express or implied, other than those set forth at [www.formica.com](http://www.formica.com).

# FORMICA® LAMINATE BY FORMICA GROUP/FIRE-RATING ASTM E-84, NFPA 255

## TECHNICAL BRIEF CONTINUED



### GR ADE / FORMICA® BR AND PRODUCTS

( F ACED MATERIAL)	ADHESIVE	SUBSTR ATE	THICKNESS	BACKER	FL AME	SMOKE	CL ASS
10/HPL (HGS)	cat PVAc	PTB	3/4	91/BKL	55	210	B
10/HPL (HGS)	cat PVAc	FR PTB	3/4	91/BKL	55	115	B
10/HPL (HGS)	contact	PTB	3/4	91/BKL	160	155	C
10/HPL (HGS)	contact	FR PTB	3/4	91/BKL	35	75	B
10/HPL (HGS)	PVAc	PTB	3/4	91/BKL	120	175	C
10/HPL (HGS)	PVAc	FR PTB	3/4	91/BKL	150	160	C
10/HPL (HGS)	unbonded				95	135	C
12/HPL (HGP)	cat PVAc	PTB	3/4	91/BKL	60	205	B
12/HPL (HGP)	cat PVAc	FR PTB	3/4	91/BKL	60	135	B
12/HPL (HGP)	contact	PTB	3/4	91/BKL	170	85	C
12/HPL (HGP)	contact	FR PTB	3/4	91/BKL	45	100	B
12/HPL (HGP)	PVAc	PTB	3/4	91/BKL	185	70	C
12/HPL (HGP)	PVAc	FR PTB	3/4	91/BKL	150	135	C
12/HPL (HGP)	unbonded				80	40	C
20/HPL ( VGP)	cat PVAc	PTB	3/4	91/BKL	65	185	B
20/HPL ( VGP)	PVAc	FR PTB	3/4	91/BKL	175	70	C
20/HPL ( VGP)	PVAc	PTB	3/4	91/BKL	190	80	C
20/HPL ( VGP)	unbonded				35	50	B
A3CT/Chemtop2™	cat PVAc	FR PTB	3/4	91/BKL	70	95	B
A3CT/Chemtop2™	cat PVAc	PTB	3/4	91/BKL	130	90	C
A3CT/Chemtop2™	contact	FR PTB	3/4	91/BKL	65	100	B
840 Lab Grade	contact	PTB	3/4	91/BKL	80	85	C
CC/ColorCore2™	unbonded				40	125	B
CC/ColorCore2™	contact	FR PTB	3/4		45	350	B
91/BKL	contact	PTB	1/2	91/BKL	100	60	C
R6/BKL	unbonded				65	10	B
36/BasicMetal™	contact	PTB	3/4	91/BKL	65	90	B
36/BasicMetal™	unbonded				40	25	B
82/DecoMetal®	contact	PTB	3/4	91/BKL	20	25	A
83/DecoMetal® (Solid Metal)	contact	PTB	3/4	91/BKL	0	110	A
83/DecoMetal® (Solid Metal)	unbonded				5	5	A
84/DecoMetal®	contact	PTB	3/4	91/BKL	10	0	A
84/DecoMetal®	unbonded				15	10	A
85/DecoMetal®	contact	PTB	3/4	91/BKL	5	0	A
85/DecoMetal®	unbonded				5	20	A
86/DecoMetal®	contact	PTB	3/4	91/BKL	15	10	A
86/DecoMetal®	unbonded				10	25	A
S2/Compact (1/8" Thick Phenolic)	unbonded				80	160	C
P7/Compact (1/4" Thick Phenolic)	unbonded				55	284	B
P9/Compact (5/16" Thick Phenolic)	unbonded				49	259	B
S8/Compact (3/8" Thick Phenolic)	unbonded				45	230	B
P8/Compact (5/8" Thick Phenolic)	unbonded				37	196	B
S6/Compact (1/2" Thick Phenolic)	unbonded				30	110	B
S7/Compact (3/4" Thick Phenolic)	unbonded				30	110	B
R3/Compact (1" Thick Phenolic)	unbonded				20	80	A
D4/HPL (VGS)	unbonded				55	30	B
D5/HPL (HGS)	unbonded				55	35	B
A7/HPL (HGP)	unbonded				45	100	B
M8/ Magnetic Markerboard	unbonded				40	120	B
M8/ Magnetic Chalkboard	unbonded				35	60	B
T9/Chalkable	unbonded				230	70	Unclassified

# FORMICA® LAMINATE BY FORMICA GROUP/FIRE-RATING ASTM E-84, NFPA 255

## TECHNICAL BRIEF CONTINUED



HIGH PRESSURE L AMINATES / GRADES 10 , 12 , 20 AND  
DECOMETAL® WERE ALSO FIRE TESTED AND FOUND TO MEET THE FOLLOWING  
TEST METHODS:

MVSS 302		SWRI TEST ID
HPL – Grade 10/HGS	pass	01.11810.01.012b
HPL – Grade 12/HGP	pass	01.11810.01.012c
HPL – Grade 20/ VGP	pass	01.11810.01.012a
DecoMetal® Grade 85	pass	01.13544.01.627
ASTM E162		SWRI TEST ID
HPL – Grade 10/HGS	pass	01.11810.01.011c
HPL – Grade 12/HGP	pass	01.11810.01.011b
HPL – Grade 20/ VGP	pass	01.11810.01.011a
DecoMetal® Grade 85	pass	01.13539.02.011b

ASTM E662		SWRI TEST ID
Grade 10/HGS	pass	01.11813.02.010a
Grade 12/HGP	pass	01.11813.02.010b
Grade 20/ VGP	pass	01.11813.02.010
DecoMetal® Grade 85	pass	01.13539.02.011a
ABBREVIATIONS		
contact	Formica® F150/F151 contact adhesive spray applied	
PVAc	Choice Brands XA2600 PVAc adhesive roller applied	
cat PVAc	Borden/Hexion WB1116/M316 catalyzed PVAc adhesive roller applied	



## ASHLEY DUO WEDGE™





# ASHLEY DUO WEDGE™



## PROMINENT POWER

The Ashley Duo Wedge provides bustling areas with convenient, easy-to-use electricity options to power the technology and devices that help energize our work. The quality componentry and durable housing make the Ashley Duo Wedge perfect for demanding environments like public spaces, school settings, and common areas.

Each USB port utilizes a Smart Device Recognition Chip to monitor and independently deliver the required amperage to your devices – up to 2.1 amps each – and charge them in half the time it takes with similar products on the market.

The Ashley Duo Wedge's USB charging is UL 1310 recognized, Class 2, FCC Part 15A approved. The unit meets UL spill requirements and USB.org Battery Charging 1.2 specifications.



Harvest Pumpkin



Neon Red



Daisy Blue



Light Green

## DISTINCTLY RESOURCEFUL

The user friendly form of the Ashley Duo Wedge produces an always-open wedge that gives easy access to two AC outlets and two USB ports. But the appearance can be enhanced further with the eye-catching new standard colors.

The durable metal bezel and plastic face are available in classic White, Gray, and Black, while the fresh plastic tints include: Neon Red, Harvest Pumpkin, Blue Daisy, and Light Green.

More custom plastic and/or color painted metal trim possible as a special order.

### Standard Metal Trim Finishes:



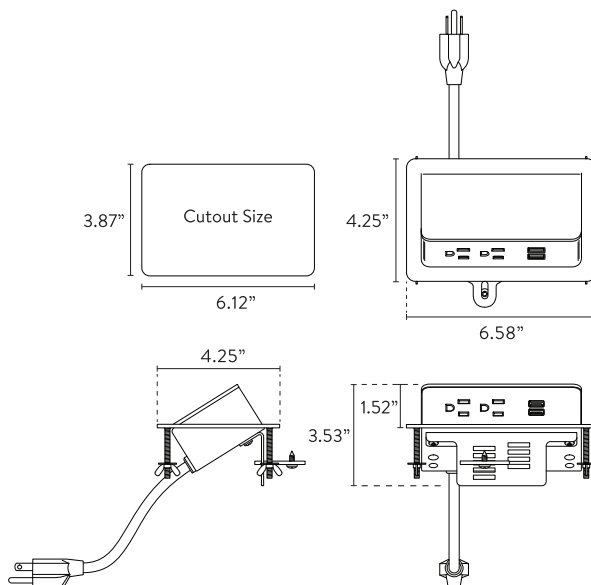
### Standard Plastic Colors:



\*Matching custom plastic and/or color painted metal trim possible as a special order.

## ACCOMMODATING APPLICATIONS

The flexibility offered by the Ashley Duo Wedge's frame allows the power unit to be mounted where it's most accessible and will perform best in a given area. The Ashley Duo Wedge is an effective and attractive module – whether it's embedded in a piece of furniture, a training table, or on a work surface.







### Specifications:

- Mounts to surface thicknesses: .25"-1.25"
- Optional mounting bracket for surface thicknesses up to 1.50"
- 12A, 120 VAC spill resistant receptacles
- 2.1A (10.5W) USB charging ports
- Cord Length: 108"
- 90° Flat Plug with 45° Rotation
- Standard Faceplate Finishes Include: Silver, Black, Gloss White powder coat and Clear Brushed Aluminum
- ETL Listed for US and Canada

## Cove™ Corded Series

The Cove is a versatile power and charging solution designed to seamlessly integrate power, USB charging ports, and data capabilities into a variety of spaces. Available in over 20 different configurations, and with multiple mounting options, the Cove can easily change any area into a powerful multifunctional space. Spill resistant receptacles protect against unexpected spill hazards and provide freedom to mount the Cove unit face up in table surfaces. Receptacles are strategically orientated to optimize the surface area of each unit accomodating large and small device plugs.

### Ordering Information

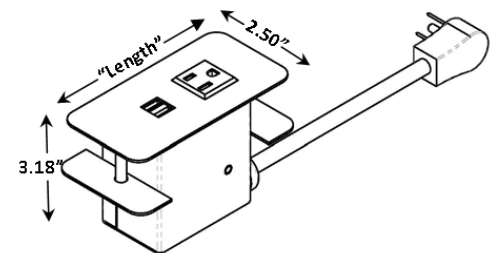
Part Number	Configuration	Finish	Length
Power Only			
COV-2-GW-108 COV-2-S-108 COV-2-B-108 COV-2-AL-108	Cove with 2 power, 108" cord	Gloss White Silver Black Clear Aluminum	5.00"
COV-3-GW-108 COV-3-S-108 COV-3-B-108 COV-3-AL-108	Cove with 3 power, 108" cord	Gloss White Silver Black Clear Aluminum	6.25"
COV-4-GW-108 COV-4-S-108 COV-4-B-108 COV-4-AL-108	Cove with 4 power, 108" cord	Gloss White Silver Black Clear Aluminum	7.75"
COV-6-GW COV-6-S-108 COV-6-B-108 COV-6-AL-108	Cove with 6 power, 108" cord	Gloss White Silver Black Clear Aluminum	10.75"

### Cove Configurations:

Number of Receptacles:	1	2	3	4	6
Power Only		✓	✓	✓	✓
USB	✓	✓	✓	✓	✓
Screw Mount	✓	✓	✓		
Convenience Outlet		✓	✓		
Data Capability			✓	✓	
USB & Data		✓	✓	✓	✓

### Product Dimensions:

DIMENSIONS: LENGTH X 2.50" W X 3.18" D



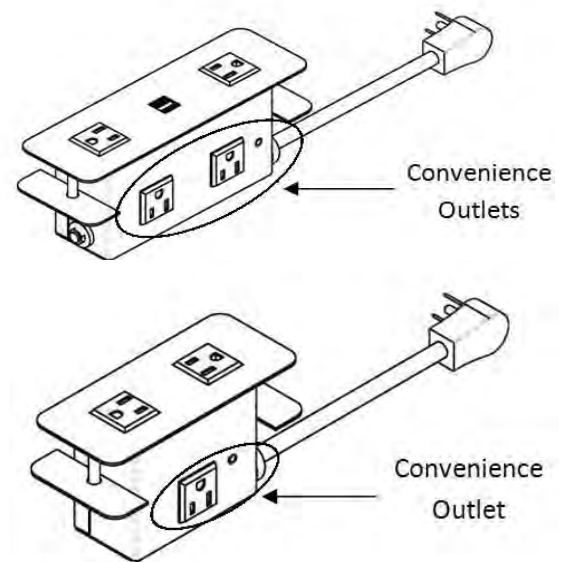
(COVE ONE POWER, TWO USB SHOWN)

## Ordering Information continued...

Part Number	Configuration	Finish	Length
<b>Power and USB Charging</b>			
COV-1U-GW-108 COV-1U-S-108 COV-1U-B-108 COV-1U-AL-108	Cove with 1 power and (2) 2.1 USB charging ports, 108" cord	Gloss White Silver Black Clear Aluminum	5.00"
COV-2U-GW-108 COV-2U-S-108 COV-2U-B-108 COV-2U-AL-108	Cove with 2 power and (2) 2.1 USB charging ports, 108" cord	Gloss White Silver Black Clear Aluminum	5.75"
COV-3U-GW-108 COV-3U-S-108 COV-3U-B-108 COV-3U-AL-108	Cove with 3 power and (2) 2.1 USB charging ports, 108" cord	Gloss White Silver Black Clear Aluminum	7.75"
COV-4U-GW-108 COV-4U-S-108 COV-4U-B-108 COV-4U-AL-108	Cove with 4 power and (2) 2.1 USB charging ports, 108" cord	Gloss White Silver Black Clear Aluminum	8.75"
COV-6U-GW-108 COV-6U-S-108 COV-6U-B-108 COV-6U-AL-108	Cove with 6 power and (4) 2.1 USB charging ports, 108" cord	Gloss White Silver Black Clear Aluminum	13.25"
<b>Power with Convenience Outlets</b>			
COV-21-GW-108 COV-21-S-108 COV-21-B-108 COV-21-AL-108	Cove with 2 power and 1 Convenience outlet, 108" cord	Gloss White Silver Black Clear Aluminum	5.75"
COV-22U-GW-108 COV-22U-S-108 COV-22U-B-108 COV-22U-AL-108	Cove with 2 power and (2) 2.1 USB charging ports, 2 Convenience Outlet, 108" cord	Gloss White Silver Black Clear Aluminum	7.75"
COV-31U-GW-108 COV-31U-S-108 COV-31U-B-108 COV-31U-AL-108	Cove with 3 power and (2) 2.1 USB charging ports, 1 Convenience Outlet, 108" cord	Gloss White Silver Black Clear Aluminum	7.75"
<b>Power with Data Capability</b>			
COV-3-D-GW-108 COV-3-D-S-108 COV-3-D-B-108 COV-3-D-AL-108	Cove with 3 power and 1 telecom plate cutout, 108" cord	Gloss White Silver Black Clear Aluminum	10.00"
COV-4-D-GW-108 COV-4-D-S-108 COV-4-D-B-108 COV-4-D-AL-108	Cove with 4 power and 1 telecom plate cutout, 108" cord	Gloss White Silver Black Clear Aluminum	11.50"



## A Closer Look at Convenience Outlets:



\* AVAILABLE ON SELECT TWO AND THREE POWER CONFIGURATIONS

Convenience outlets are perfect for stationary accessories like lamps, computers, or monitors which do not need to be accessed often allowing more room to plug in temporary devices like laptops, tablets, and mobile phones above the work surface where they are more easily accessible.

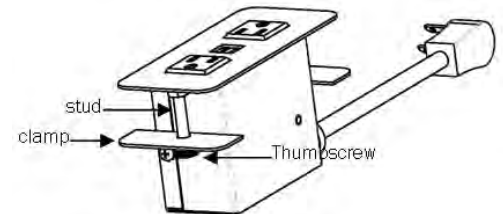
Ordering Information continued...

Part Number	Configuration	Finish	Length
<b>Power with USB Charging and Data Capability</b>			
COV-2U-D-GW-108 COV-2U-D-S-108 COV-2U-D-B-108 COV-2U-D-AL-108	Cove with 2 power, (2) 2.1 USB charging ports, and 1 Telecom Plate Cutout, 108" cord	Gloss White Silver Black Clear Aluminum	9.50"
COV-3U-D-GW-108 COV-3U-D-S-108 COV-3U-D-B-108 COV-3U-D-AL-108	Cove with 3 power, (2) 2.1 USB charging ports, and 1 Telecom Plate Cutout, 108" cord	Gloss White Silver Black Clear Aluminum	11.50"
COV-4U-D-GW-108 COV-4U-D-S-108 COV-4U-D-B-108 COV-4U-D-AL-108	Cove with 4 power, (2) 2.1 USB charging ports, and 1 Telecom Plate Cutout, 108" cord	Gloss White Silver Black Clear Aluminum	12.50"
COV-6U-D-GW-108 COV-6U-D-S-108 COV-6U-D-B-108 COV-6U-D-AL-108	Cove with 6 power, (4) 2.1 USB charging ports, and 1 Telecom Plate Cutout, 108" cord	Gloss White Silver Black Clear Aluminum	17.00"
<b>Screw Mount Options</b>			
COV-1U-S-GW-108 COV-1U-S-S-108 COV-1U-S-B-108 COV-1U-S-AL-108	Cove with 1 power, (2) 2.1 USB charging ports, screw mount, 108" cord	Gloss White Silver Black Clear Aluminum	5.75"
COV-2-S-GW-108 COV-2-S-S-108 COV-2-S-B-108 COV-2-S-AL-108	Cove with 2 power, screw mount, 108" cord	Gloss White Silver Black Clear Aluminum	5.75"
COV-2U-S-GW-108 COV-2U-S-S-108 COV-2U-S-B-108 COV-2U-S-AL-108	Cove with 2 power, (2) 2.1 USB charging ports, screw mount, 108" cord	Gloss White Silver Black Clear Aluminum	6.50"
COV-22U-S-GW-108 COV-22U-S-S-108 COV-22U-S-B-108 COV-22U-S-AL-108	Cove with 2 power, (2) 2.1 USB charging ports, and 2 Convenience Outlet, screw mount, 108" cord	Gloss White Silver Black Clear Aluminum	8.50"
COV-3U-S-GW-108 COV-3U-S-S-108 COV-3U-S-B-108 COV-3U-S-AL-108	Cove with 3 power, (2) 2.1 USB charging ports, screw mount, 108" cord	Gloss White Silver Black Clear Aluminum	8.50"
COV-2U-S-D-GW-108 COV-2U-S-D-S-108 COV-2U-S-D-B-108 COV-2U-S-D-AL-108	Cove with 2 power, (2) 2.1 USB charging ports, and 1 Telecom Plate Cutout, screw mount, 108" cord	Gloss White Silver Black Clear Aluminum	10.25"
COV-3U-S-D-GW-108 COV-3U-S-D-S-108 COV-3U-S-D-B-108 COV-3U-S-D-AL-108	Cove with 3 power, (2) 2.1 USB charging ports, and 1 Telecom Plate Cutout, screw mount, 108" cord	Gloss White Silver Black Clear Aluminum	12.25"



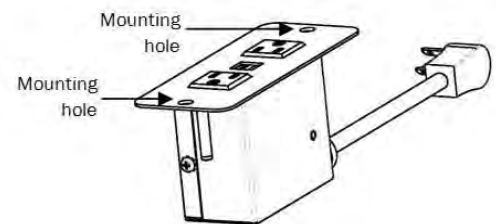
## Clamp vs. Screw Mount:

### Clamp Mount-



The Clamp mounting method requires no tools, and is best suited for installations where the back of the unit is easily accessible. The clamp mount works well for desks, benches, tables and case goods. The Cove is fastened to the furniture from the rear by tightening the thumbscrews.

### Screw Mount-



The Screw mounting method is best suited for installations where the back of the unit has limited, or no access. Ideal for soft sided seating, lounge furniture and support columns. The screws are inserted from the front of the unit, through the face of the Cove, fastening the Cove to the furniture.

- Features & Benefits
  - Details
  - Product Specs
  - Compatible Accessories
- Home > Inline LED Dimmer Switch

INLINE LED DIMMER SWITCH



This easy-to-use LED Dimmer Switch allows you to adjust the brightness of LED lights with a classic rotary knob without any troublesome flickering.  
[Learn more](#)

1 **MAXIMUM LOAD:\***

- 2 Amp
- 5 Amp

2 **FINISH:\***

- Black
- White

**SKU:** Select Options Above

3 **QTY:**

1

**ADD TO SHOPPING LIST**

**Build a Shopping List**  
Build a Shopping List and take it to your local Diode LED Dealer to complete your purchase.

**Find a Dealer**  
To purchase this product, find a Diode LED Dealer in your area

ZIP Code

SEARCH

4 [Choose Compatible Accessories](#)

Features & Benefits

FEATURES & BENEFITS

- Good for small installations
- White or Black
- 12V and 24V compatible
- Use with Constant Voltage Drivers and Plug-In Adapters



Details

DETAILS

This easy-to-use LED Dimmer Switch allows you to adjust the brightness of LED lights with a classic rotary knob without any troublesome flickering.

**CLASS 2 Loads only :**

**2 Amp - 12VDC : 24W max. | 24VDC : 48W max.**

**5 Amp - 12VDC : 60W max. | 24VDC : 100W max.**

Product Specs

PRODUCT SPECS

	Connection Type	DC Plug
	Dimensions	2.6 x 1.4 x 1.3 in.
	Environment / IP Rating	Indoor
Features & Benefits	Input Voltage	12-24VDC
Details	Output Voltage	12-24V DC
Product Specs	Warranty	2-Year Limited
Compatible Accessories		

Please refer to [Downloads](#) section for complete product details, including specifications, installation guides, and warranty information.

SKU	Output Voltage	Item	Finish
DI-0715	12-24V DC	2 Amp	White
DI-0715-B	12-24V DC	2 Amp	Black
DI-INLINE-DS-5A-B	12-24V DC	5 Amp	Black
DI-INLINE-DS-5A-W	12-24V DC	5 Amp	White

Compatible Accessories

COMPATIBLE ACCESSORIES

TAPE/STRIP LIGHT	POWER SUPPLIES	WIRE/EXTENSIONS/CONNECTORS	FIXTURES
------------------	----------------	----------------------------	----------


FLUID VIEW® 12V LED Tape Light

The FLUID VIEW® LED Tape Light is our most popular LED lighting solution and is an excellent accent indoor lighting solution.

	Name	
	FLUID VIEW® 12V LED Tape Light	VIEW IN NEW TAB

AVENUE 24™ Premium 24V LED Tape Light

AVENUE 24™ Premium 24V LED Tape Light is an architectural grade, low-voltage lighting solution with an impressive color rendering level of 90+ that delivers high quality lighting for true to color representation.

	Name	
	AVENUE 24™ Premium 24V LED Tape Light	VIEW IN NEW TAB

SUBSCRIBE TO OUR NEWSLETTER

Diode LED Product Catalog

VIEW CATALOG

Have questions?

Call us at 877.817.6028 or Email: [info@diodeled.com](mailto:info@diodeled.com)



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20181018-E503903  
**Report Reference** E503903-20181018  
**Issue Date** 2018-OCTOBER-18

**Issued to:** AC INFINITY INC  
18221 Railroad St.City of Industry CA US US 91748


**This is to certify that  
representative samples of** FANS, ELECTRIC - COMPONENT  
Fans - (X)S8025A (a), (Y)S1225A (b), (X)S8038A (a),  
(X)S9225A (a), (X)S1238A (a), (Y)S1751A (b)  
Note: (a) Where "X" may be L,M incl: (b) Where "Y" may be  
L,M,H incl: Fans - HS1238A, PS1225A, HS8025A,  
HS8038A, HS9225A, PS1751A

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 507 - Electric Fans; CSA C22.2 No. 113-15 Fans and  
Ventilators

**Additional Information:** See the UL Online Certifications Directory at  
[www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's  
Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog  
number, model number or other product designation as specified under "Marking" for the particular  
Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products  
that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark:  
 may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is  
required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual  
recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance  
capabilities and are intended for use as components of complete equipment submitted for investigation rather  
than for direct separate installation in the field. The final acceptance of the component is dependent upon its  
installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please  
contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



VERIFICATION-PROBERKA-検証-VÉRIFICATION-검증-التحقق

<b>Certificate No.</b>	:	CTL1811096018-EC
<b>Applicant</b>	:	AC Infinity Inc.
<b>Address</b>	:	18221 Railroad St., City of Industry, CA 91748, USA
<b>Product</b>	:	AXIAL Series
<b>Trademark</b>	:	AC Infinity
<b>Model(s)</b>	:	See models list on next pages for details
<b>Manufacturer</b>	:	AC Infinity Inc.
<b>Address</b>	:	18221 Railroad St., City of Industry, CA 91748, USA
<b>Test Report</b>	:	CTL1811096018-E

Complies with the requirements of the  
**EC EMC Directive 2014/30/EU**

**Test Standards:**

EN 55032: 2015  
EN 55024: 2010+A1: 2015  
EN 61000-3-2: 2014  
EN 61000-3-3: 2013

Remarks:

Based on the voluntary assessment of the product sample and technical file, we confirm that the above-mentioned product meets the requirements of the EC directive.

The CE mark as show below can be used, under the responsibility of the manufacturer or the importer, after completion of an EC declaration of conformity and compliance with all relevant EC directives.



Lucy Q.

For Chief Executive  
Dec. 07, 2018



**Shenzhen CTL Testing Technology Co., Ltd.**

Add: Floor 1-A, Baisha Technology Park, No.3011, Shahe Xi Road, Nanshan District, Shenzhen, China 518055

Tel: (86)0755-89486194    Web: [www.cti-lab.com](http://www.cti-lab.com)    E-mail: [cti@cti-lab.com](mailto:cti@cti-lab.com)



## Verification of Conformity

**Certificate No.** : CTL1811096018-EC

**Test Report** : CTL1811096018-E

**Model(s)** :

AXIAL Series, AI-1238SCXD, LS6030A-X, MS6030A-X, HS6030A-X,  
LS8025A-X, MS8025A-X, HS8025A-X, LS8038A-X, MS8038A-X,  
HS8038A-X, LS9225A-X, MS9225A-X, HS9225A-X, LS9238A-X,  
MS9238A-X, HS9238A-X, LS1225A-X, MS1225A-X, HS1225A-X,  
LS1238A-X, MS1238A-X, HS1238A-X, LS1738A-X, MS1738A-X,  
HS1738A-X, LS1751A-X, MS1751A-X, HS1751A-X, LS1865A-X,  
MS1865A-X, HS1865A-X, LS2589A-X, MS2589A-X, HS2589A-X,  
AI-120SCX, AI-120SCXD, AI-1238SCX, AI-1238SCXD, LS6030A-W,  
HS6030A-W, LS8025A-W, HS8025A-W, LS8038A-W, HS8038B-W,  
HS9225A-W, LS9225A-W, HS9225B-W, HS9238A-W, LS1225A-W,  
HS1225A-W, HS1225B-W, LS1238A-W, HS1238A-W, HS1238B-W,  
AI-SC72A, AI-SC72DC



For Chief Executive  
Dec. 07, 2018



**Shenzhen CTL Testing Technology Co., Ltd.**

Add: Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan District, Shenzhen, China 518055

Tel: (86)0755-89486194 Web: www.ctl-lab.com E-mail: ctl@ctl-lab.com



Item #

Project



DI-24V-LGP50-	0811	1117	1824	2436	1224	1236
<b>Dimensions</b>	8" x 11" x .25" (L x W x H)	11" x 17" x .25" (L x W x H)	18" x 24" x .25" (L x W x H)	24" x 36" x .25" (L x W x H)	12" x 24" x .25" (L x W x H)	12" x 36" x .25" (L x W x H)
<b>Lumens</b>	430	760	1140	1810	1175	1880
<b>Wattage</b>	6W	9.5W	13W	20W	13.5W	20W
<b>Voltage</b>	24V					
<b>CCT</b>	5000K					
<b>CRI</b>	80+					
<b>Dimmable</b>	Yes					
<b>Diffusion</b>	Yes					
<b>Environment¹</b>	Indoor / Dry Location					
<b>Certification</b>	UL Listed 48					
<b>Warranty</b>	5-Year Warranty					

## FEATURES

**\*WARNING: NOT FOR USE IN SUBMERSIBLE APPLICATIONS**

- Most popular sign lighting solution
- Customizable to your specifications
- Provides bright, even lighting
- Premium diffused, no hot spots
- Snap Frames available

**SKU Builder**

DI

-

24V

-

LGP50

-

Voltage

Model and CCT

Dimensions

0811	1224	
1117	1236	
1824	CSTM	(custom)
2436		

# LED LIGHT GUIDE PANEL

## SPECIFICATION SHEET

### SPECIFICATIONS

- LED Chip Beam Angle: 120°
- Connections<sup>2</sup>: 3 ft. Female DC plug.
- Environment: Indoor / damp location

### COMPLIANCE & REGULATORY APPROVALS

#### Safety

- UL Listed 48, Electrical Signs. CSA C22.2 No. 207 Certified for United States and Canada. E497870

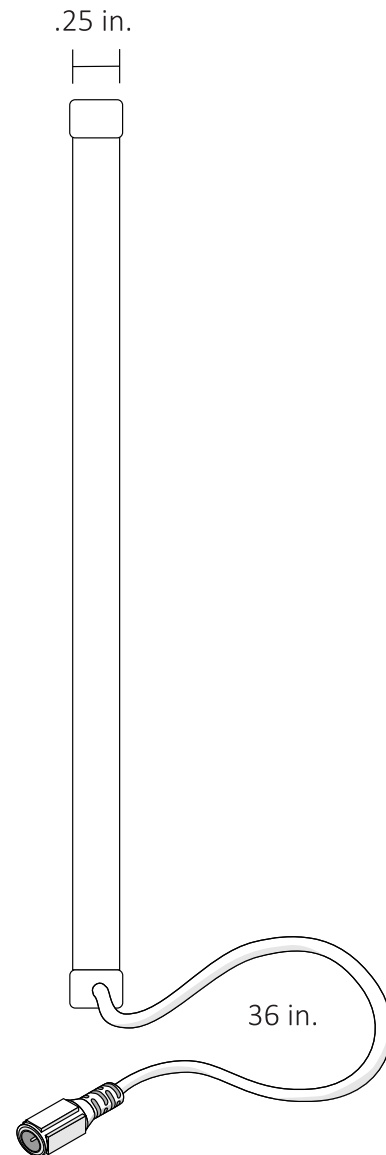
#### Performance

- LED chip data measured in accordance to IES LM-80-08.
- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Elemental LED's Innovation Lab.

### COMPATIBLE DRIVERS

Additional information on compatible Drivers can be found on page 3-9 or on the Diode LED web site at: [www.DiodeLED.com](http://www.DiodeLED.com).

### MECHANICAL DIAGRAMS



1. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
2. Wire leads and accessories are not rated for in-wall installation unless otherwise noted. Attached wire leads and connections are field-cutttable.



# LED LIGHT GUIDE PANEL

SPECIFICATION SHEET

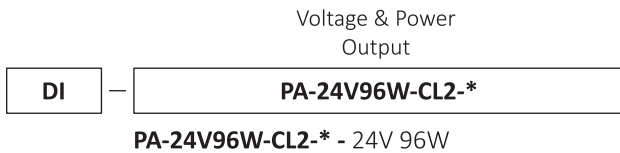
## COMPATIBLE PRODUCTS

### LED DRIVERS Cont. (Required)

The following Listed LED Drivers are recommended to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED's product page at: <https://www.diodeled.com/products/led-power-supplies.html>

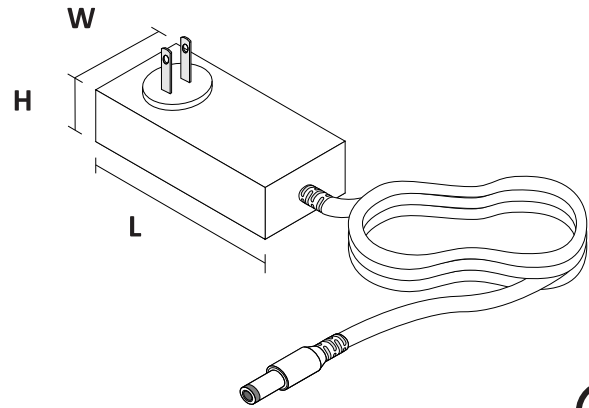
### PLUG-IN ADAPTERS

Plug-In Adapters allow for a simple installation by plugging into a standard 120-Volt receptacle. Compatible with inline Switches and Dimmers.



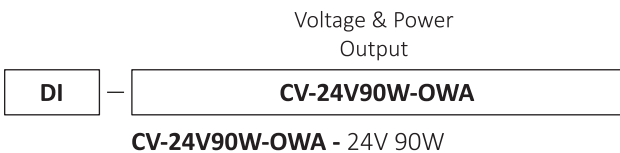
SKU	L - LENGTH	W - WIDTH	H - HEIGHT
PA-24V96W-CL2-*	4.70 in.	2.00 in.	1.25 in.

\* Available in Black or White. Add a **B** for Black or **W** for White.

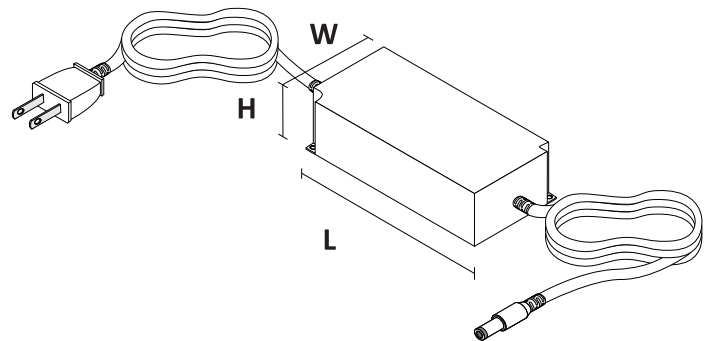


### COMMERCIAL GRADE PLUG-IN DRIVER

Plug-In Adapters allow for a simple installation by plugging into a standard 120-Volt receptacle. Compatible with inline Switches and Dimmers.



SKU	L - LENGTH	W - WIDTH	H - HEIGHT
CV-24V90W-OWA	6.75 in.	2.50 in.	1.50 in.



# LED LIGHT GUIDE PANEL

## SPECIFICATION SHEET

### LED DRIVERS (Required)

The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED's product page at: <https://www.diodeled.com/products/led-power-supplies.html>

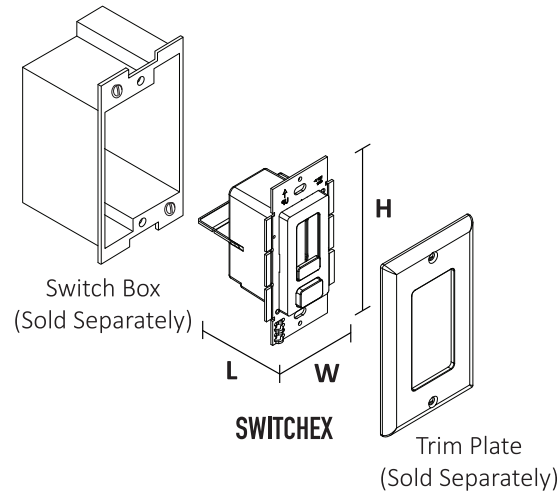
### SWITCHEX® DRIVER + DIMMER SWITCH

SWITCHEX combines an LED driver and LED dimmer switch into a single integrated unit. Fits into standard switch boxes.

	Voltage Output		Power Output
DI	24V	SE	60W

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-24V-SE-60W	1.40 in.	2.10 in.	4.10 in.
DI-24V-SE-100W	1.40 in.	2.10 in.	4.10 in.

Fits in Standard Switch Box

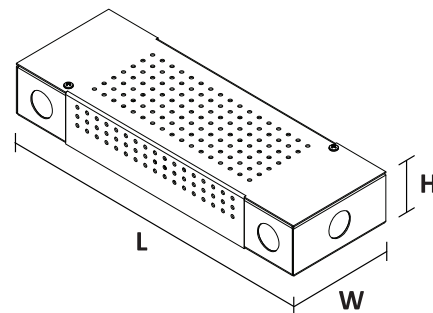


### LO-PRO® JUNCTION BOX & DRIVER COMBO - 24V CONSTANT VOLTAGE LED DRIVER

Use Constant Voltage Drivers to power your lighting system. Compatible with Standard 120VAC On/Off Switches, REIGN® Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.

	Voltage & Power Output	Junction Box
DI	0970	LPS

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-0970-LPS	11.25 in.	3.75 in.	1.90 in.
DI-CV-MW24V60W-277-LPS	11.25 in.	3.75 in.	1.90 in.
DI-CV-MW24V90W-277-LPS	11.25 in.	3.75 in.	1.90 in.
DI-0954-LPL	13.5 in.	4.5 in.	2.37 in.

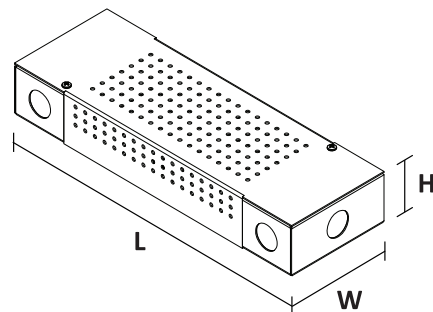


### LO-PRO® JUNCTION BOX & DRIVER COMBO - 24V COMMERCIAL GRADE 0-10V LED DIMMABLE DRIVER

Compatible with 0-10V controls and dimming systems.

	Voltage & Power Output		Junction Box
DI-DM	MW24V60W	0-10V	LPS

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-DM-MW24V60W-0-10V-LPS	11.25 in.	3.75 in.	1.90 in.
DI-DM-MW24V90W-0-10V-LPL	13.5 in.	4.5 in.	2.37 in.



# LED LIGHT GUIDE PANEL

## SPECIFICATION SHEET

### LED DRIVERS CONT. (Required)

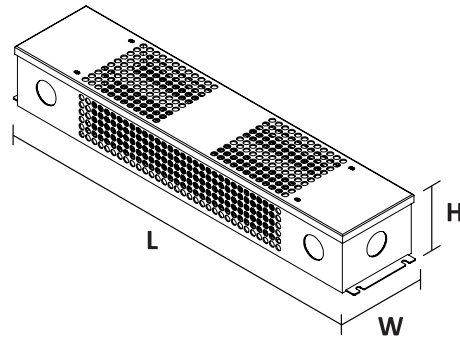
The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED's product page at: <https://www.diodeled.com/products/led-power-supplies.html>

#### OMNIDRIVE® 2 ELECTRONIC DIMMABLE LED DRIVER

OMNIDRIVE 2 features a zero minimum load and 100-5% dimming range. Compatible with Forward Phase and Reverse Phase Dimmers. Please see Diode LED's Compatibility List at: <https://www.diodeled.com/custom/download/productFile/filename/DI-OD2-Compatibility%20List.pdf>

Voltage & Power Output		
DI	—	OD2
24V24W		

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-OD2-24V24W	13.75 in.	3.00 in.	1.60 in.
DI-OD2-24V60W	13.75 in.	3.00 in.	1.60 in.
DI-OD2-24V96W	15.00 in.	3.10 in.	2.40 in.
DI-OD2-24V120W	15.00 in.	3.10 in.	2.40 in.
DI-OD2-24V200W	16.10 in.	3.40 in.	2.40 in.

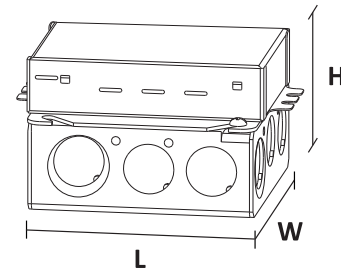


#### LUTRON® Hi-lume 1% LED DIMMABLE DRIVER

Hi-lume 1% LED Driver has a minimum load of 5W and dims from 100-1%.

Voltage & Power Output			3-Wire or 2-Wire Dimmers
DI-DM	—	24V40W	L3D

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-DM-24V40W-L3D	4.89 in.	4.00 in.	2.62 in.
DI-DM-24V40W-LTE			

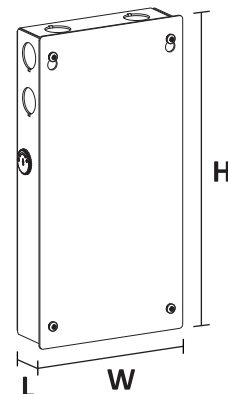


#### LUTRON® Hi-lume Premier 0.1% LED DIMMABLE DRIVER

Hi-Lume Premier 0.1% LED Driver has a minimum load of 5W and dims from 100-0.1%.

Voltage & Power Output		
DI-DM	—	24V96W
L3D		

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
DI-DM-24V96W-L3D	5.50 in.	2.20 in.	10.50 in.



# LED LIGHT GUIDE PANEL

## SPECIFICATION SHEET

### LED DRIVERS (Required)

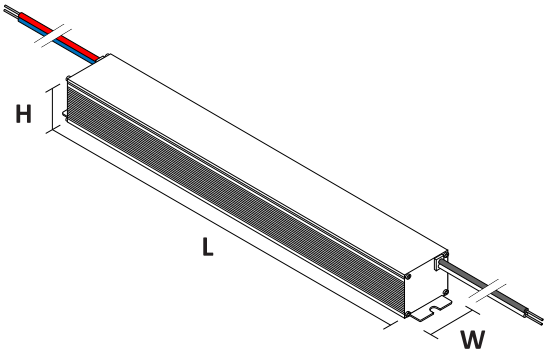
The following Listed LED Drivers are recommended to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED's product page at: <https://www.diodeled.com/products/led-power-supplies.html>

### VLM SERIES CONSTANT VOLTAGE DRIVER

Use Constant Voltage Drivers to power your low voltage tape light. Compatible with Standard 120VAC On/Off Switches, REIGN® 12-24V Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.

VLM		-	24
Wattage		Voltage	
60W			
100W			

SKU	L - LENGTH	W - WIDTH	H - HEIGHT
VLM60W-24	5.1 in.	.75 in.	.77 in.
VLM100W-24	5.38 in.	1 in.	.77 in.



# LED LIGHT GUIDE PANEL

## SPECIFICATION SHEET

### ADDITIONAL INFORMATION

- LED LIGHT GUIDE PANEL Installation Guide

### SAFETY / WARNINGS / DISCLOSURES

1. Install in accordance with national and local electrical code regulations.
2. This product is intended to be installed and serviced by a qualified, licensed electrician.
3. Only install with a Class 2 DC Constant Voltage LED driver. This product has not been evaluated for use when connected to an LED driver that does not comply with Class 2 voltage and energy limited supplies.
4. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
5. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
6. Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Tape light and attached wire leads are field-cuttable.
7. Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
8. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
9. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
10. Do not install indoor LED tape light products in outdoor / wet location environments. Only wet location tape light models are rated for outdoor / wet locations.
11. Do not modify product beyond instructions or warranty will be void.
12. Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
13. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
14. We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

### WARRANTY

#### Limited Warranty

This product has a five (5) year limited warranty from the date of shipment. This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at [www.diodeled.com/limited-warranty/](http://www.diodeled.com/limited-warranty/) within the Policies section. For warranty related questions please contact product support.

#### Consumer's Acknowledgment

Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infield adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from an Elemental LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchaser agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.



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SPEC SHEET | LED LIGHT GUIDE PANEL | SS011419-2.0 | 7 OF 7





**MODEL TS1802MS**

## SENSORCLICK™ ADVANCED POWERSTRIP WITH MOTION SENSOR

### PRODUCT DESCRIPTION

SensorClick™ is a revolutionary, modular power platform that offers a broad selection of energy-saving surge protectors and sensors that seamlessly work together to reduce energy waste. With an extensive and growing list of sensors, you can quickly and inexpensively set up a custom power management solution for any application.

The TS1802MS SensorClick 7-outlet Advanced PowerStrip with Motion Sensor saves energy by automatically removing the supply of power to plug-in electronics if no motion is detected within the countdown timer period (default: 30 minutes).

### HOW IT WORKS

Featuring a motion sensor with a configurable countdown timer, the TS1802MS detects motion in the workspace area. Power is supplied to electronics plugged into the switched outlets when motion is detected in the workspace area.

If no motion is detected within the countdown timer period, the supply power to the switched outlets is removed, and electronics turn off.

### BENEFITS

- Simple automation saves energy and reduces electricity costs by switching off electronics when the user is not present.
- Configurable countdown timer allows the user to customize the amount of time of inactivity before automatically power down electronics.
- Premium-quality, fireproof surge protection safeguards plug-in electronics against power surges.
- Unique SensorClick platform offers convenient product selection for installing in a variety of applications.

### PREMIUM-QUALITY, FIREPROOF SURGE PROTECTION

The TS1802MS incorporates advanced surge protection technology with ceramic-encased MOVs that suppress more energy and dissipate heat faster than traditional surge protection products. The ceramic casing is fireproof and therefore capable of preventing fire during abnormal surge conditions.

All TrickleStar surge protectors include best-in-class Voltage Protection Rating (VPR), superior mechanical properties, and a lifespan up to three times longer than standard surge protectors, providing you with the highest degree of protection available.

### THE TRICKLESTAR EXPERIENCE

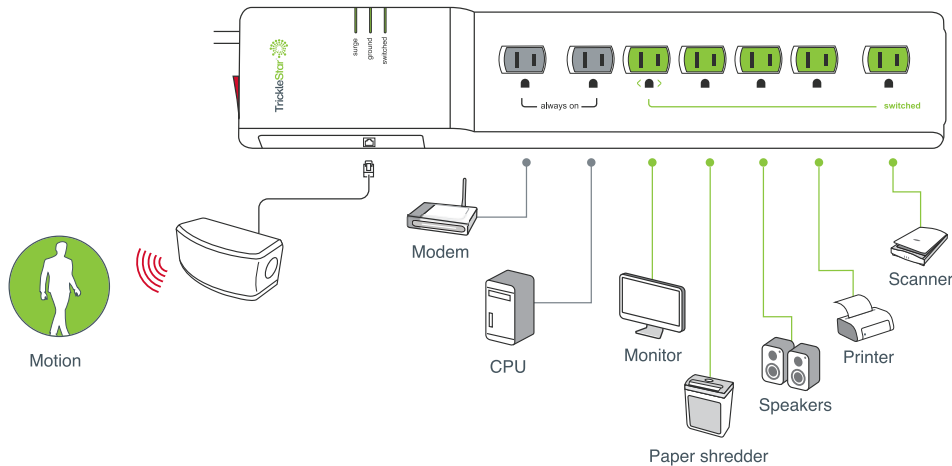
Only TrickleStar has the depth of experience that comes from supplying over 3 million advanced power strip products to utility energy-saving programs.

Every TrickleStar product is backed with a reputation for reliability that is unsurpassed in the industry, a 10-year product lifetime warranty, and a connected equipment warranty.

### FEATURES

- 7 surge-protected outlets: 5 switched outlets, 2 always-on outlets
- 15 A resettable circuit breaker
- 1,080 Joules of ceramic-encased, fireproof surge protection at 500 VPR
- Child protective outlet covers
- LED status indication (ground, surge status, switched)
- <40 dB noise filtering
- 4 ft. heavy-duty cord with angled, space-saver plug
- Highly-accurate passive infrared motion sensor

## APPLICATION DIAGRAM



## WARRANTY COVERAGE

10-year Product Warranty  
\$20,000 Connected Device Warranty

## ADVANCED POWERSTRIP ELECTRICAL SPECIFICATIONS

For Indoor Use	
Voltage	120 VAC +/- 10%, 60 Hz
Power Rating	15 A
Surge Protection	72,000 Amps/1,080 Joules
Noise Filtering	<40 dB
Standby Power Consumption	<1 Watt
Voltage Protection Rating	500 Volts L-N
	500 Volts L-G
	500 Volts N-G
Physical Specifications	
Operating Temperature	32° to 113° F
Storage Temperature	14° to 140° F
Humidity	5 to 90% N/C
IP Rating	IP20

## SAFETY STANDARDS & LISTINGS

Conformity to product standards for safety and EMC  
2002/95/EG (RoHS), 2002/96/EC (WEEE), 1999/5/EC (RTTE)  
Solid-State Controls for Appliance, UL 244A & CSA C22.2 No. 14-10  
Relocatable Power Taps, UL 1363  
Standard for Surge Protective Devices, UL 1449



## MOTION SENSOR ELECTRICAL SPECIFICATIONS

For Indoor Use	
Voltage	3.3 V
Cord Length	8 ft.
Connector	RJ11
Switch Type	Momentary
Motion Detection Range	16.4 ft.
Motion Detecting Angle	90°
Configurable Countdown Timer	10/30/60 minutes

### Important Note:

The SensorClick Advanced PowerStrip requires an accessory device to be connected for power to be supplied to the switched outlets. Switched outlets default to off/no power supplied when an accessory device is not connected.

## ORDERING INFORMATION

TS1802MS      SensorClick 7-outlet Advanced PowerStrip  
with Motion Sensor

# 24VDC PLUG-IN ADAPTER

## SPECIFICATION SHEET



### OVERVIEW



24VDC Plug-in Adapters convert 120VAC voltage to 24VDC output. An adapter is the right choice for portable installations where hard-wiring is not desired. These adapters may be paired with low voltage In-Line Switches, Dimmers and RGB(W)/DMX Controls. These adapters are available in multiple form factors and voltage/wattage combinations to meet your low-voltage LED lighting needs.

### FEATURES

- Available in wattages 12W to 96W
- Available in white and black finishes
- Short circuit, over current, over voltage, over temperature protections
- Fanless design / cooling by free-air convection
- UL Listed 1310 Class 2 models available

Item #	
Project	

## SPECIFICATIONS - 24VDC Output Models

	DI-PA-24V12W-CL2-B (Black) DI-PA-24V12W-CL2-W (White)	DI-PA-24V24W-CL2-B (Black) DI-PA-24V24W-CL2-W (White)	DI-PA-24V48W-CL2-B (Black) DI-PA-24V48W-CL2-W (White)
			
<b>Input Voltage / Frequency</b>	100 ~ 240VAC / 50 ~ 60Hz	100 ~ 240VAC / 50 ~ 60Hz	100 ~ 240VAC / 50 ~ 60Hz
<b>Max Load<sup>1</sup></b>	12W / 0.5A	24W / 1.0A	48W / 2.0A
<b>Class 2 Certified</b>	Yes	Yes	Yes
<b>Output Voltage</b>	24VDC	24VDC	24VDC
<b>Ambient Temperature<sup>2</sup></b>	+32 ~ +104°F (0 ~ +40°C)	+32 ~ +104°F (0 ~ +40°C)	+32 ~ +104°F (0 ~ +40°C)
<b>Operating Temperature<sup>3</sup></b>	+32 ~ +130°F (0 ~ +52°C)	+32 ~ +130°F (0 ~ +52°C)	+32 ~ +130°F (0 ~ +52°C)
<b>Minimum Load</b>	None	None	None
<b>Dimmability<sup>4</sup></b>	Yes. PWM & RGB(W) dimmers/controls & DMX controls	Yes. PWM & RGB(W) dimmers/controls & DMX controls	Yes. PWM & RGB(W) dimmers/controls & DMX controls
<b>Input Current Full Load</b>	0.35A@115VAC	1.2A@115VAC	1.5A@115VAC
<b>Primary Connection</b>	Wall Plug Type: 2 Prong NEMA 1-15p Male AC Plug	Wall Plug Type: 2 Prong NEMA 1-15p Male AC Plug	Desktop Plug Type: 2 Prong NEMA 1-15p Male AC Plug
<b>Secondary Leads</b>	Male DC 5.5 x 2.1mm coaxial (outside dia. x inside dia.)	Male DC 5.5 x 2.1mm coaxial (outside dia. x inside dia.)	Male DC 5.5 x 2.1mm coaxial (outside dia. x inside dia.)
<b>Voltage Boost</b>	No	No	No
<b>Circuit Breakers</b>	Auto Reset Hiccup	Auto Reset Hiccup	Auto Reset Hiccup
<b>Environment</b>	Indoor / Dry Location	Indoor / Dry Location	Indoor / Dry Location
<b>Working Humidity</b>	20 ~ 90% RH non-condensing	20 ~ 90% RH non-condensing	20 ~ 90% RH non-condensing
<b>Housing / Cooling</b>	Plastic Class II power unit, no FG connection / free air convection	Plastic Class II power unit, no FG connection / free air convection	Plastic Class II power unit, no FG connection / free air convection
<b>Dimensions</b>	2.35 x 1.75 x 1.40 in. (L x W x H)	3.80 x 1.75 x 1.40 in. (L x W x H)	4.70 x 2.00 x 1.25 in. (L x W x H)
<b>Weight</b>	0.187 lbs (3.0 oz.)	0.5 lbs. (8 oz.)	0.625 lbs (10 oz.)
<b>Warranty</b>	1 Year	1 Year	1 Year
<b>Certifications</b>	All Models: cULus Listed 1310 Class 2 Power Supply. Level VI Efficiency.	All Models: cULus Listed 1310 Class 2 Power Supply. Level VI Efficiency.	All Models: cULus Listed 1310 Class 2 Power Supply. Level VI Efficiency.


1. It is recommended to derate the plug-in adapter to 80% of the full labeled load for maximum longevity.

2. Do not install product in an environment outside the listed ambient temperature.

3. Operating temperature is measured according to the minimum and maximum ambient temperature environment.

4. Not compatible with 120VAC dimming controls. PWM dimmer/control spec sheet will indicate if multiple controls can be paired to a single adapter.

## SPECIFICATIONS CONT. - 24VDC Output Models

	DI-PA-24V96W-CL2-B (Black) DI-PA-24V96W-CL2-W (White)
	
<b>Input Voltage / Frequency</b>	100 ~ 240VAC / 50 ~ 60Hz
<b>Max Load<sup>1</sup></b>	96W / 4.0A
<b>Class 2 Certified</b>	Yes
<b>Output Voltage</b>	24VDC
<b>Ambient Temperature<sup>2</sup></b>	+32 ~ +104°F (0 ~ +40°C)
<b>Operating Temperature<sup>3</sup></b>	+32 ~ +130°F (0 ~ +52°C)
<b>Minimum Load</b>	None
<b>Dimmability<sup>4</sup></b>	Yes. PWM & RGB(W) dimmers/controls & DMX controls
<b>Input Current Full Load</b>	2.0A@115VAC
<b>Primary Connection</b>	Desktop Plug Type: 2 Prong NEMA 1-15p Male AC Plu
<b>Secondary Leads</b>	Male DC 5.5 x 2.1mm coaxial (outside dia. x inside dia.)
<b>Voltage Boost</b>	No
<b>Circuit Breakers</b>	Auto Reset Hiccup
<b>Environment</b>	Indoor / Dry Location
<b>Working Humidity</b>	20 ~ 90% RH non-condensing
<b>Housing / Cooling</b>	Plastic Class II power unit, no FG connection / free air convection
<b>Dimensions</b>	4.70 x 2.00 x 1.25 in. (L x W x H)
<b>Weight</b>	0.625 lbs (10 oz.)
<b>Warranty</b>	1 Year
<b>Certifications</b>	All Models: cULus Listed 1310 Class 2 Power Supply. Level VI Efficiency.

1. It is recommended to derate the plug-in adapter to 80% of the full labeled load for maximum longevity.










2. Do not install product in an environment outside the listed ambient temperature.

3. Operating temperature is measured according to the minimum and maximum ambient temperature environment.

4. Not compatible with 120VAC dimming controls. PWM dimmer/control spec sheet will indicate if multiple controls can be paired to a single adapter.







## 12-24VDC PLUG ACCESSORIES

Item #	Finish	QTY	Max Load	Product Description	
DI-PVC2464-DL42-SPL-F-**	WH <input type="checkbox"/>	5 or 25 Pack	All Models 12V: 60W 24V: 100W	ADAPTER SPLICE CABLE- FEMALE Converts a Male DC Plug to a hard-wired connection. Wire: 18/2 AWG. Dimensions: 42 x 0.45 in. (L x Dia)	
DI-PVC2464-DL42-SPL-M-**	WH <input type="checkbox"/>	5 or 25 Pack	All Models 12V: 60W 24V: 100W	ADAPTER SPLICE CABLE- MALE Converts a Female DC Plug to a hard-wired connection. Wire: 18/2 AWG. Dimensions: 42 x 0.45 in. (L x Dia)	
DI-0708-** DI-0708B-**	WH <input type="checkbox"/> BK <input checked="" type="checkbox"/>	5 or 25 Pack	All Models 12V: 60W 24V: 100W	39 IN. DC EXTENSION CABLE Creates extension between accessory featuring DC Plugs. Wire: 18/2 AWG. Dimensions: 39.4 x 0.45 in. (L x Dia)	
DI-0720-** DI-0720B-**	WH <input type="checkbox"/> BK <input checked="" type="checkbox"/>	5 or 25 Pack	All Models 12V: 60W 24V: 100W	2-WAY DC SPLITTER Splits power from a plug-in adapter to 2x Male DC Plugs. Wire: 22/2 AWG. Dimensions: 8.0 x 0.45 in. (L x Dia)	
DI-0705-** DI-0705B-**	WH <input type="checkbox"/> BK <input checked="" type="checkbox"/>	5 or 25 Pack	All Models 12V: 60W 24V: 100W	3-WAY DC SPLITTER Splits power from a plug-in adapter to 3x Male DC Plugs. Wire: 22/2 AWG. Dimensions: 8.0 x 0.60 in. (L x Dia)	
DI-DCSP4-**	WH <input type="checkbox"/>	5 or 25 Pack	All Models 12V: 60W 24V: 100W	4-WAY DC SPLITTER Splits power from a plug-in adapter to 4x Male DC Plugs. Wire: 22/2 AWG. Dimensions: 8.0 x 0.60 in. (L x Dia)	
DI-0707-** DI-0707B-**	WH <input type="checkbox"/> BK <input checked="" type="checkbox"/>	5 or 25 Pack	All Models 12V: 60W 24V: 100W	5-WAY DC SPLITTER Splits power from a plug-in adapter to 5x Male DC Plugs. Wire: 22/2 AWG. Dimensions: 8.0 x 0.60 in. (L x Dia)	
DI-0710F-** (Female) DI-0710M-** (Male)	BK <input checked="" type="checkbox"/>	5 or 25 Pack	All Models 12V: 60W 24V: 100W	9MM WET LOCATION TO DC ADAPTER CONNECTOR Attaches wet location fixtures featuring 9mm wet location plugs to a standard DC Plug-in Adapter. Wire: 22/2 AWG. Dimensions: 6.0 x 0.4 in. (L x Dia)	
DI-10MM-WL-DC-F-** (Female) DI-10MM-WL-DC-M-** (Male)	WH <input type="checkbox"/>	5 or 25 Pack	All Models 12V: 60W 24V: 100W	10MM WET LOCATION TO DC ADAPTER CONNECTOR Attaches wet location tape lights featuring 10mm wet location plugs to a standard DC Plug-in Adapter. Wire: 22/2 AWG. Dimensions: 6.0 x 0.4 in. (L x Dia)	

\*\* - Add a -5 for 5 Pack or -25 for 25 Pack

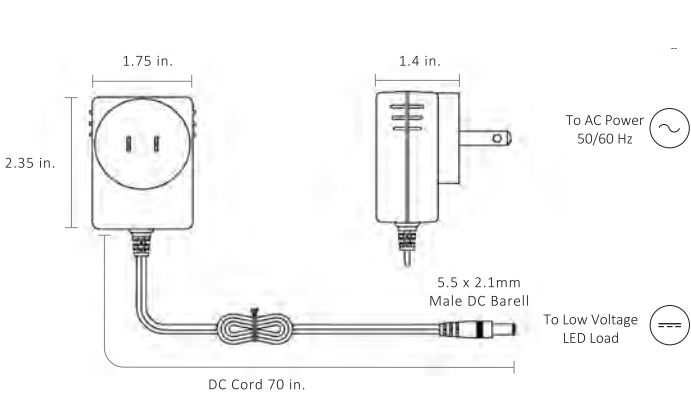
## 12-24VDC INLINE SWITCHES & DIMMERS

Item #	Finish	QTY	Max Load	Product Description	
DI-0714 DI-0714B	WH <input type="checkbox"/> BK <input checked="" type="checkbox"/>	Single	All Models 12V: 24W 24V: 48W	INLINE LED ON/OFF SWITCH Toggle switch to control power flow between plug-in adapter and fixture. Dimensions: 2.50 x 0.90 x 0.70 in.	
DI-INLINE-OS-5A-W DI-INLINE-OS-5A-B	WH <input type="checkbox"/> BK <input checked="" type="checkbox"/>	Single	All Models 12V: 60W 24V: 100W	INLINE LED ON/OFF SWITCH- 5A 5A Toggle switch to control power flow between plug-in adapter and fixture. Dimensions: 2.50 x 0.90 x 0.70 in.	
DI-0715 DI-0715B	WH <input type="checkbox"/> BK <input checked="" type="checkbox"/>	Single	All Models 12V: 24W 24V: 48W	INLINE LED DIMMER SWITCH Rotary dimmer controls power flow between plug-in adapter and fixture. Dimensions: 2.60 x 1.40 x 1.30 in.	
DI-INLINE-DS-5A-W DI-INLINE-DS-5A-B	WH <input type="checkbox"/> BK <input checked="" type="checkbox"/>	Single	All Models 12V: 60W 24V: 100W	INLINE LED DIMMER SWITCH- 5A 5A Rotary dimmer controls power flow between plug-in adapter and fixture. Dimensions: 2.60 x 1.40 x 1.30 in.	

MECHANICAL DIAGRAMS *(Images are not to scale)*

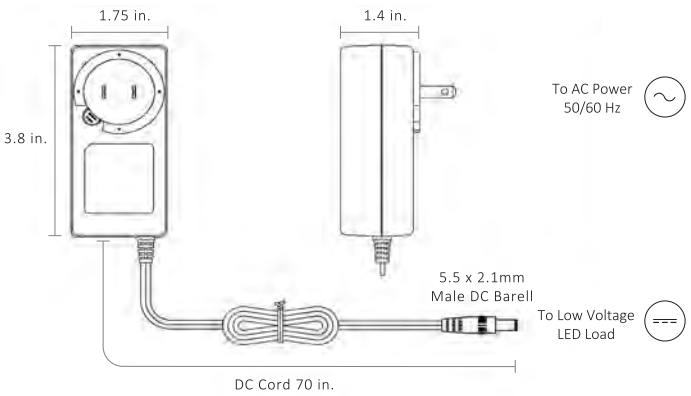
24V 12W Models

DI-PA-24V12W-CL2-B  
DI-PA-24V12W-CL2-W



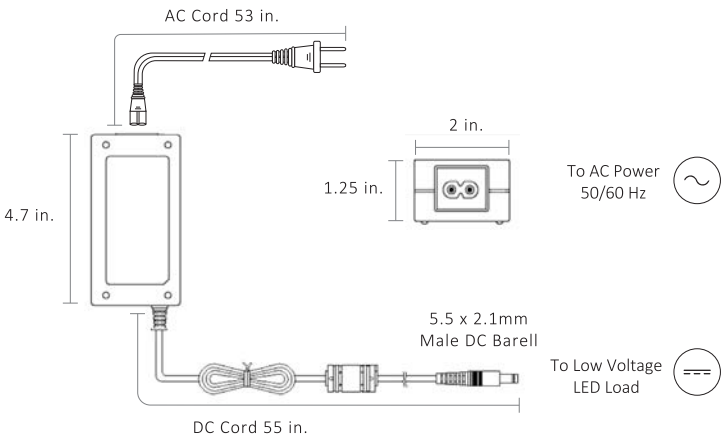
24V 24W Models

DI-PA-24V24W-CL2-B  
DI-PA-24V24W-CL2-W



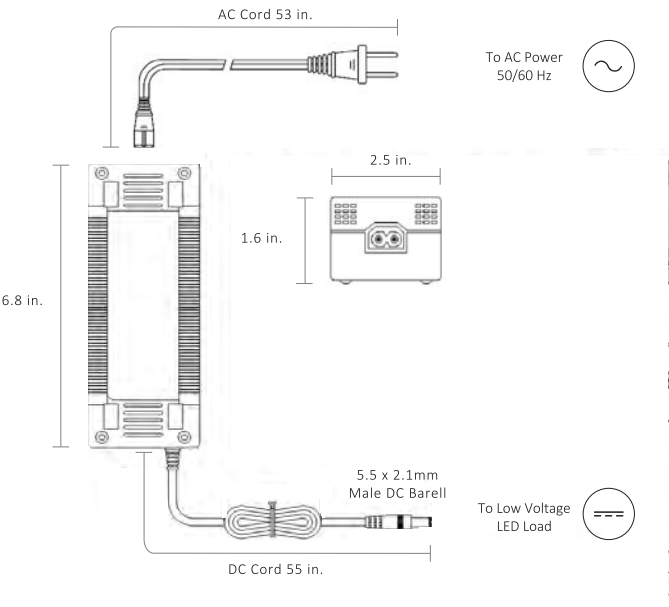
24V 48W Models

DI-PA-24V48W-CL2-B  
DI-PA-24V48W-CL2-W



24V 96W Models

DI-PA-24V96W-CL2-B  
DI-PA-24V96W-CL2-W



## ADDITIONAL RESOURCES

24VDC Commercial Grade Plug-In Adapter Specification Sheet  
12VDC Commercial Grade Plug-In Adapter Specification Sheet  
12VDC Plug-In Adapter Specification Sheet

## SAFETY / WARNINGS / DISCLOSURES

1. Install in accordance with national and local electrical code regulations.
2. This product is intended to be installed and serviced by a qualified, licensed electrician.
3. DO NOT modify product beyond instructions or warranty will be void.
4. Turn power OFF at main breaker before servicing or installing this product.
5. It is recommended to derate the plug-in adapter to 80% of the full labeled load for maximum longevity.
6. Do not install product in an environment outside the listed ambient temperature.
7. Operating temperature is measured according to the minimum and maximum ambient temperature environment.
8. Proper heat dissipation will prolong the working lifespan of this product. Install in a well-ventilated area free from explosive gases and vapors.
9. Ensure a compatible LED fixture with the correct operating voltage is installed with this product.
10. Drivers in this specification sheet are not compatible with 120VAC dimming controls. These adapters may be paired with low voltage In-Line Switches, Dimmers and RGB(W)/DMX Controls. The PWM dimmer/control spec sheet will indicate if multiple controls can be paired to a single driver.
11. To compensate for voltage drop, ensure applicable gauge in-wall rated wire is installed between driver and LED fixture.

## WARRANTY

### Limited Warranty

This product has a one (1) year limited warranty from the date of shipment. This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at [www.diodeled.com/limited-warranty/](http://www.diodeled.com/limited-warranty/) within the Policies section. For warranty related questions please contact product support.

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Toll Free: 877.817.6028 | Fax: 415.592.1596 | [www.DiodeLED.com](http://www.DiodeLED.com) | [info@DiodeLED.com](mailto:info@DiodeLED.com)



Our most versatile tape light in our portfolio, BLAZE 24V LED Tape Light is perfect for accent and task lighting with its vast selection of color temperatures and exceptional lumen output. Featuring a superior 90+ CRI rating for excellent light quality and the ability to run up to 33 linear feet on a single class 2 power source, BLAZE 24V LED Tape Light is ideal for commercial and residential applications.

ITEM #	CCT (KELVIN) <sup>1</sup>	CRI	LUMENS <sup>2</sup> / FT.
DI-24V-BL24-90**	 2400K	95	179
DI-24V-BL27-90**	 2700K	93	197
DI-24V-BL28-90**	 2850K	92	209
DI-24V-BL30-90**	 3000K	97	202
DI-24V-BL33-90**	 3300K	94	207
DI-24V-BL35-90**	 3500K	94	207
DI-24V-BL38-90**	 3800K	94	224
DI-24V-BL42-90**	 4200K	93	228
DI-24V-BL44-90**	 4400K	92	230
DI-24V-BL50-90**	 5000K	93	226
DI-24V-BL63-90**	 6300K	94	223

\*\* - Substitute with **16** for 16.4 ft spool, **33** for 33 ft. spool, **100** for 100 ft. spool, or **400** for 400ft. spool (400 ft. only available in 2700K, 3000K, and 3500K). 400ft. spools have a diameter of 36" Ex: DI-24V-BL27-80**100** = Blaze 2700K 100ft. Spool

Footnotes 1 & 2 see page 2.

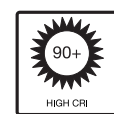
### FEATURES

- Bright task lighting
- Class 2 linear runs up to 33ft.
- 90+ CRI
- Cuttable every 2 inches
- 3M™ 55280 Adhesive backing

### QUICK SPECS

<b>Voltage</b>	24VDC
<b>Wattage</b>	2.88W / ft.
<b>Max. Run</b>	33 ft.
<b>Dimensions</b>	0.31 x 0.1 in. (W x H)
<b>Field Cuttable</b>	~2 in. (50mm)
<b>LED Chips</b>	36 / ft.
<b>Certification</b>	UL Listed 2108
<b>Warranty</b>	12-Year Warranty

Visit the product page at [www.DiodeLED.com](http://www.DiodeLED.com) for installation guides, .IES files, voltage drop charts, and LM-79 reports.



Item #

Project

## SPECIFICATIONS

- Input: 24VDC Constant Voltage
- Power Consumption / ft.: 2.88W / 120mA
- LED Chip Type: Epistar 3528 SMD Chip
- LED Chip Beam Angle: 120°
- LED Chips / ft.: 36
- Dimmable: Yes
- Luminous Efficacy<sup>3</sup> (lm/w): 62~79
- Mounting<sup>4</sup>: 3M™ 55280 Adhesive
- Field Cuttable: ~ 2 in. (50mm)
- Maximum Run<sup>5</sup>: 33 ft.
- Connections<sup>6</sup>: 3 ft. Female DC plug on end. 3 ft. hard-wire lead opposing end. Leads: UL 2464 20/2 AWG
- Ambient Temp<sup>7</sup>: -4 ~ 122°F (-20 ~ 50°C)
- Operating Temp<sup>8</sup>: -4 ~ 176°F (-20 ~ 80°C)
- Environment<sup>9</sup>: Indoor / dry location
- Dimensions: 0.31 x 0.1 in. (W x H)

## COMPLIANCE & REGULATORY APPROVALS

### Safety

- UL Listed 2108 Low Voltage Lighting System / Low Voltage Luminaire. UL 1598 / CSA 250.0-08, UL 8750. UL 879 / CAN/CSA-C22.2 no. 207-M89. Certified for United States and Canada. File # E469769.
- UL Listed Field Cuttable.
- UL Recognized Component - Sign Accessories. Available in UL Sign Components Manual (SAMS Manual). File # E469770.

### Performance

- LED chip data measured in accordance to IES LM-80-08.
- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Elemental LED's Innovation Lab.

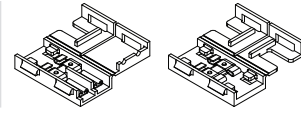
## COMPATIBLE SWITCHES, CONTROLS, LED DRIVERS, & SYSTEM DIAGRAMS CAN BE FOUND AT

[www.DiodeLED.com](http://www.DiodeLED.com)

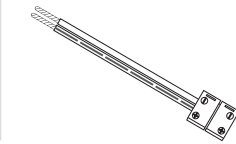
## ADDITIONAL ACCESSORIES

Accessories listed below fully support our Tape Light product line. Further information on these products and more accessories can be found in our latest catalog or online at [www.DiodeLED.com](http://www.DiodeLED.com).

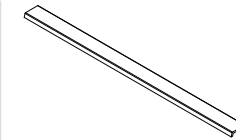
CLICKTIGHT® PRO  
Tape Light Connector



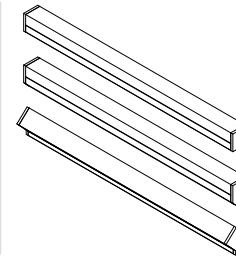
CLICKTIGHT® Tape  
Light Connectors



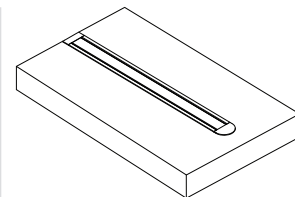
TAPEGUARD® LED  
Light Cover



CHROMAPATH®  
Aluminum Channels



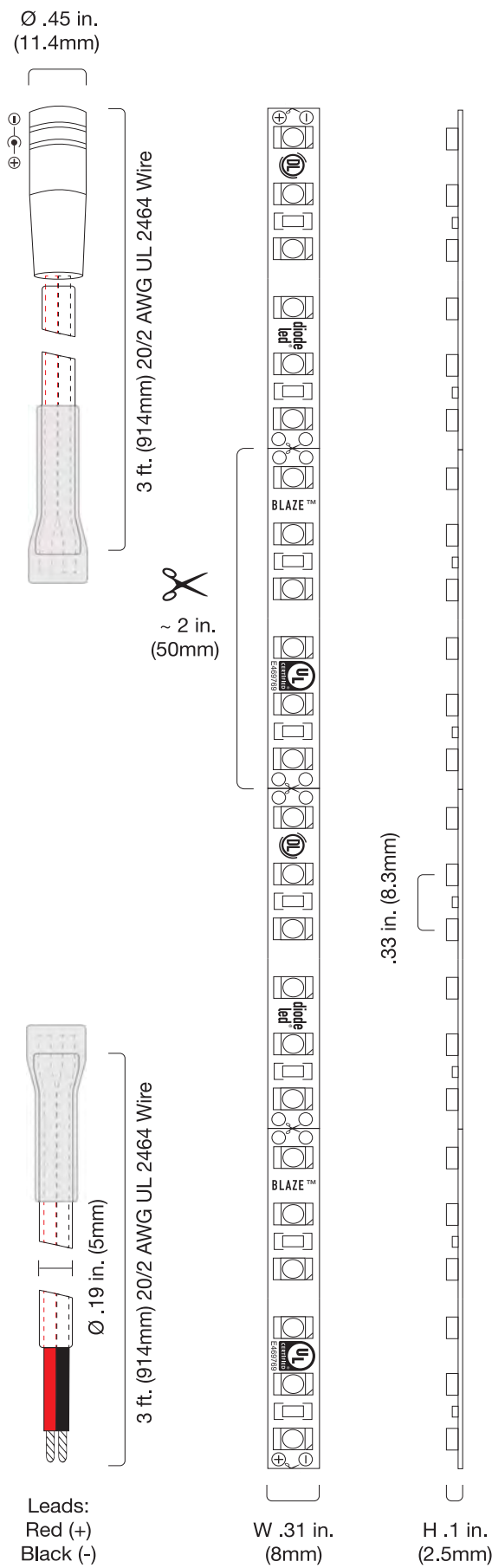
CHROMAPATH® SLIM  
Recessed Channels



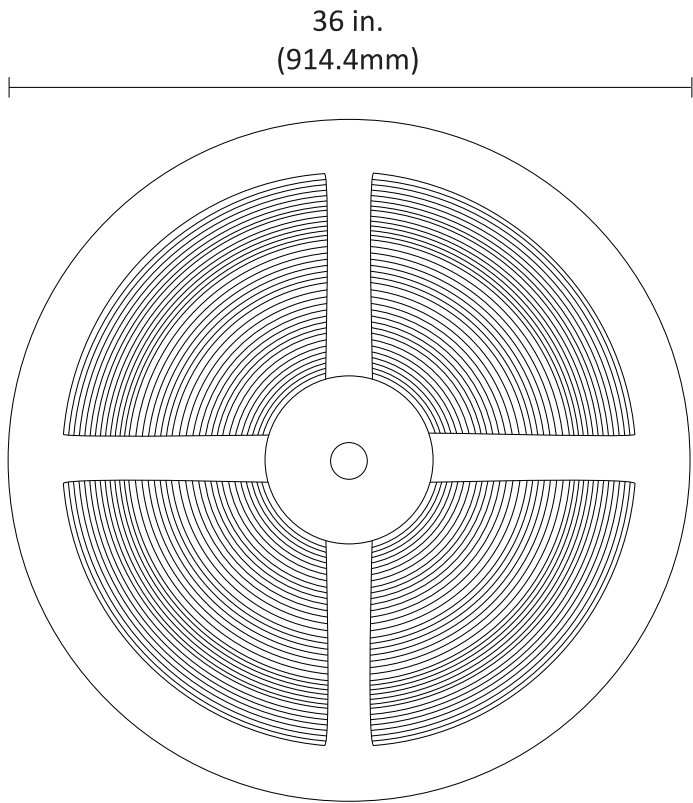
1. Epistar 3528 SMD Chip binning ranges: (2400K 90+ CRI: 2300-2425K), (2700K 90+ CRI: 2580-2725K), (2850K 90+ CRI: 2725-2870K), (3000K 90+ CRI: 2870-3045K), (3300K 90+ CRI: 3220-3465K), (3500K 90+ CRI: 3465-3710K), (3800K 90+ CRI: 3710-3985K), (4200K 90+ CRI: 3985-4260K), (4400K 90+ CRI: 4260-4503K), (5000K 90+ CRI: 4745-5028K), (6300K 90+ CRI: 6020-6530K).
2. LED chips have a luminous flux range with a tolerance of +/- 5%.
3. Actual efficacy value is dependent to specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.
4. Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.
5. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
6. Wire leads and accessories are not rated for in-wall installation unless otherwise noted. Attached wire leads and connections are field-cuttable.
7. Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.
8. Operating temperature is measured according to the minimum and maximum ambient temperature environment.
9. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.



MECHANICAL DIAGRAM



BLAZE™ 400' SPOOL



## ADDITIONAL INFORMATION

- LOW VOLTAGE LED TAPE LIGHT Installation Guide

## SAFETY / WARNINGS / DISCLOSURES

1. Install in accordance with national and local electrical code regulations.
2. This product is intended to be installed and serviced by a qualified, licensed electrician.
3. Only install with a Class 2 DC Constant Voltage LED driver. This product has not been evaluated for use when connected to an LED driver that does not comply with Class 2 voltage and energy limited supplies.
4. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
5. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
6. Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Tape light and attached wire leads are field-cuttable.
7. Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
8. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
9. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
10. Do not install indoor LED tape light products in outdoor / wet location environments. Only wet location tape light models are rated for outdoor / wet locations.
11. Do not modify product beyond instructions or warranty will be void.
12. Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
13. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
14. We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

## WARRANTY

### Limited Warranty

This product has a twelve (12) year limited warranty from the date of shipment. This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at [www.diodeled.com/limited-warranty/](http://www.diodeled.com/limited-warranty/) within the Policies section. For warranty related questions please contact product support.

### Consumer's Acknowledgment

Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infield adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from a Elemental LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchase agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.



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Specifications are subject to change without notice.

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SPEC SHEET | BLAZE™ 24V LED TAPE | SS033018-1.0 | 4 OF 4

## New Project 16

Make-up Name	Make-up Icon	Transmittance			Reflectance			U-Value		R-Value	Solar Heat Gain Coefficient (SHGC)
		Visible (τ <sub>v</sub> %)	UV (τ <sub>UV</sub> %)	Solar (τ <sub>e</sub> %)	Visible		Solar	Winter Night (Btu/hr-ft²·F)	Summer Day (Btu/hr-ft²·F)		
					ρ <sub>v</sub> % out	ρ <sub>v</sub> % in	ρ <sub>e</sub> % out				
Default Make-up 01	<div></div>	88	60	76	8	8	7	1.00	0.91	1.00	0.81

Calculation Standard: NFRC 2010

### Default Make-up 01

#### Outdoors

GLASS 1	Clear (NA)	#1 -----
	Thickness = 3/8" = 10mm	#2 -----
Total Unit (Nominal) = 3/8 in		Slope = 90°
Estimated Nominal Glazing Weight: 4.64 lb/ft <sup>2</sup>		

#### Indoors

### Important Notes

The performance values shown above represent NOMINAL VALUES for the center of glass with no spacer system or framing. Slight variations may occur due to manufacturing tolerances, point of manufacture, and type of instrumentation used to measure the optical properties. For configurations that include non-specular (diffuse) components, performance results cannot be verified and should only be used as a general indication of performance. For configurations which include ceramic frit coating, the actual values may vary significantly based upon the thickness and composition of the frit. For configurations with coatings laminated facing the PVB, there may be a noticeable color change. Guardian recommends a full size mock-up be approved. Calculations and terms in this report are based on NFRC 2010.

Please note that the THERMAL STRESS GUIDELINE is only a rough reference to the thermal safety of a glazing. Other factors such as the size of glass areas, shapes and patterns, glass thickness, glass damaged during shipping, handling or installation, orientation of the building, exterior shading, overhangs/fins that reduce wind speed, and areas with high daily temperature fluctuations can all increase the probability of thermal breakage. The results shown are not for any specific glazing installation and do not constitute a warranty against glass breakage.

### Explanation of Terms

**% Transmittance Visible or Light Transmittance ( $\tau_v$  %)** is the percentage of visible light at normal incidence (90° to surface) that is transmitted by the glass.

**% Ultraviolet (UV) Transmittance ( $\tau_{UV}$  %)** is the percentage of ultraviolet light at normal incidence directly transmitted by the glass. Ultraviolet Light is defined as radiant energy from the sun having a wavelength range of 300 nm to 380 nm.

**% Solar Energy Direct Transmittance ( $\tau_e$  %)** is the percentage of solar energy at normal incidence directly transmitted by the glass. Solar Energy is the radiant energy from the sun having a wavelength range of 300 nm to 2500 nm.

**% Reflectance Visible Outdoors or Light Reflectance Out ( $\rho_v$  % out)** is the percentage of visible light at normal incidence directly reflected by the glass back outdoors.

**% Reflectance Visible Indoors or Light Reflectance In ( $\rho_v$  % in)** is the percentage of visible light at normal incidence directly reflected by the glass back indoors.

**% Solar Energy Reflected Outdoors or Solar Direct Reflectance Out ( $\rho_e$  % out)** is the percentage of solar energy at normal incidence directly reflected by the glass back outdoors.

**% Solar Energy Reflected Indoors or Solar Direct Reflectance In ( $\rho_e$  % in)** is the percentage of solar energy at normal incidence directly reflected by the glass back indoors.

**Absorptance ( $\alpha_e$  %)** (Solar, Visible or UV) is defined as a process in which a range of radiation is retained by a substance and converted into heat energy. The creation of heat energy also causes the substance to emit its own radiation.

**U-Factor or U-Value ( $U_G$ )** is the air-to-air thermal conductance of 39" high glazing and associated air films. US Standard units are Btu/hr.ft<sup>2</sup>.F. and SI / Metric units are W/m<sup>2</sup>K. Winter night values are 12.3 mph wind at -0.4°F outdoors and 69.8°F still indoor air. Summer values are 0 sun, 6.15 mph wind at 89.6°F outdoors and 75.2°F still indoor air.

**Relative Heat Gain (RHG)** is the total net heat gain to the indoors due to both the air-to-air thermal conductance and the solar heat gain. Imperial units are Btu/hr.ft<sup>2</sup>.  $RHG = [(Summer\ U-Value)(89.6^\circ F - 75.2^\circ F) + (Shading\ Coefficient)(200\ Btu/hr-ft^2)]$ . Metric units are W/m<sup>2</sup>.  $RHG = [(Summer\ U-Value)(32^\circ C - 24^\circ C) + (Shading\ Coef.)(631\ W/m^2)]$

**Shading Coefficient (SC)** is the fraction of solar heat, direct (300 to 2500 nm) plus indirect (5 to 40  $\mu m$ ), transferred indoors through the glass. For reference, 1/8" (3.1 mm) clear glass has a value of 1.00 (SC is an older term being replaced by the SHGC).

**Solar Heat Gain Coefficient (SHGC)** is the fraction of solar energy incident on the glazing that is transferred indoors both directly and indirectly through the glazing. The direct gain portion equals the direct solar transmittance, while the indirect is the fraction of the solar energy absorbed to the energy reradiated and convected indoors. No heat gain from warmer outdoor air is included.  $SHGC = (Direct\ Solar\ Trans) + \{[(Indirect\ Solar\ Heat\ Gain) - (Summer\ U-Value)(89.6^\circ F - 75.2^\circ F)] / (248.209\ Btu/hr-ft^2)\}$

**Light-to-Solar Gain (LSG)** is the ratio of visible light gain to solar gain.  $LSG = (Visible\ Transmittance) / (SHGC)$

**Color Rendering Index in transmission, D65 ( $R_a$ )** is the change in color of an object as a result of the light being transmitted by the glass.

**Weighted Sound Reduction Index ( $R_w$ )** is a single-number quantity which characterizes the airborne sound insulation of a material or building element over a range of frequencies.

**Sound Transmission Class (STC)** is a single-number quantity which characterizes the airborne sound insulation of a material or building element over a range of frequencies.

#### Disclaimer

This performance analysis is provided for the limited purpose of assisting the user in evaluating the performance of the glass products identified on this report. Spectral data for products manufactured by Guardian reflect nominal values derived from typical production samples or CE Initial Type Testing and subject to variations due to manufacturing and calculation tolerances. Spectral data for products not manufactured by Guardian were derived from the LBNL International Glazing Database and have not been independently verified by Guardian. The values provided herein are generated according to established engineering practices and applicable calculation standards. Many factors may affect glass performance, including glass size, building orientation, shading, wind speed, type of installation, production process and others. The applicability and results of the analysis are directly related to user inputs and any changes in actual conditions can have a significant effect on the results. It is the responsibility of the users of the analysis to ensure that the intended application is appropriate and complies with all relevant laws, regulations, standards, codes of practices, processing guidelines and other requirements. Guardian recommends a full-size mock-up be approved. Guardian makes no guarantee that any glazing modeled herein is available from Guardian or any other manufacturer. The user has the responsibility to check with the manufacturer regarding availability of any glass type or make-up. While Guardian has made a good faith effort to verify the reliability of its tools, it may contain unknown programming errors that could result in inaccurate results. The user assumes all risk relating to the results provided and is solely responsible for selection of appropriate products for user's application. Guardian makes no express or implied warranty of any kind with respect to Guardian tools and performance analyses. There are no warranties of merchantability, non-infringement or fitness for a particular purpose with respect to Guardian tools and performance analyses and no warranty shall be implied by operation of law or otherwise. The only warranties applicable to Guardian products are those separately provided in writing for each product. In no event shall Guardian be liable for direct, indirect, special, consequential or incidental damages of any kind relating to or resulting from use of Guardian tools and performance analyses.

Program Version: 4.1.0.7943  
Database Version: 20190128

## Tab 8 – Value Added Products and Services

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- ♦ Include any additional products and/or services available that vendor currently performs in their normal course of business that is not included in the scope of the solicitation that you think will enhance and add value to this contract for Region 14 ESC and all NCPA participating entities.

**Under the Oasis Berco brand you will also find a couple of other products that may be interesting to your clients that would be included at the same discount as the privacy pods. There are soft social booths which are a semi private meeting area, our Hubs, which are a 55" tall units used to create study or meeting space that does not need privacy. And finally we have Novus, which is a space separation item that also allows you to utilize it for displaying items, storage, or adding plants to the wall.**



## Tab 9 – Required Documents

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- ◆ Federal Funds Certifications
- ◆ Clean Air and Water Act & Debarment Notice
- ◆ Contractors Requirements
- ◆ Antitrust Certification Statements
- ◆ Required Clauses for Federal Assistance by FTA
- ◆ State Notice Addendum

## **Federal Funds Certifications**

Participating Agencies may elect to use federal funds to purchase under the Master Agreement. The following certifications and provisions may be required and apply when a Participating Agency expends federal funds for any purchase resulting from this procurement process. Pursuant to 2 C.F.R. § 200.326, all contracts, including small purchases, awarded by the Participating Agency and the Participating Agency's subcontractors shall contain the procurement provisions of Appendix II to Part 200, as applicable.

### **APPENDIX II TO 2 CFR PART 200**

(A) Contracts for more than the simplified acquisition threshold currently set at \$250,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

- Pursuant to Federal Rule (A) above, when a Participating Agency expends federal funds, the Participating Agency reserves all rights and privileges under the applicable laws and regulations with respect to this procurement in the event of breach of contract by either party.

(B) Termination for cause and for convenience by the grantee or subgrantee including the manner by which it will be effected and the basis for settlement. (All contracts in excess of \$10,000)

- Pursuant to Federal Rule (B) above, when a Participating Agency expends federal funds, the Participating Agency reserves the right to immediately terminate any agreement in excess of \$10,000 resulting from this procurement process in the event of a breach or default of the agreement by Offeror as detailed in the terms of the contract

(C) Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 CFR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

- Pursuant to Federal Rule (C) above, when a Participating Agency expends federal funds on any federally assisted construction contract, the equal opportunity clause is incorporated by reference herein.

(D) Davis-Bacon Act, as amended (40 U.S.C. 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

- Pursuant to Federal Rule (D) above, when a Participating Agency expends federal funds during the term of an award for all contracts and subgrants for construction or repair, offeror will be in compliance with all applicable Davis-Bacon Act provisions

(E) Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708). Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

- Pursuant to Federal Rule (E) above, when a Participating Agency expends federal funds, offeror certifies that offeror will be in compliance with all applicable provisions of the Contract Work Hours and Safety Standards Act during the term of an award for all contracts by Participating Agency resulting from this procurement process.

(F) Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of "funding agreement" under 37 CFR §401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

- Pursuant to Federal Rule (F) above, when federal funds are expended by Participating Agency, the offeror certifies that during the term of an award for all contracts by Participating Agency resulting from this procurement process, the offeror agrees to comply with all applicable requirements as referenced in Federal Rule (F) above

(G) Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended— Contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non- Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401- 7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251- 1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

- Pursuant to Federal Rule (G) above, when federal funds are expended by Participating Agency, the offeror certifies that during the term of an award for all contracts by Participating Agency member resulting from this procurement process, the offeror agrees to comply with all applicable requirements as referenced in Federal Rule (G) above

(H) Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

- Pursuant to Federal Rule (H) above, when federal funds are expended by Participating Agency, the offeror certifies that during the term of an award for all contracts by Participating Agency resulting from this procurement process, the offeror certifies that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by any federal department or agency. If at any time during the term of an award the offeror or its principals becomes debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by any federal department or agency, the offeror will notify the Participating Agency

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)—Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

- Pursuant to Federal Rule (I) above, when federal funds are expended by Participating Agency, the offeror certifies that during the term and after the awarded term of an award for all contracts by Participating Agency resulting from this procurement process, the offeror certifies that it is in compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352). The undersigned further certifies that:
  - No Federal appropriated funds have been paid or will be paid for on behalf of the undersigned, to any person for influencing or attempting to influence an officer or



employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, the making of a Federal grant, the making of a Federal loan, the entering into a cooperative agreement, and the extension, continuation, renewal, amendment, or modification of a Federal contract, grant, loan, or cooperative agreement.

- If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
- The undersigned shall require that the language of this certification be included in the award documents for all covered sub-awards exceeding \$100,000 in Federal funds at all appropriate tiers and all subrecipients shall certify and disclose accordingly.

### **RECORD RETENTION REQUIREMENTS FOR CONTRACTS INVOLVING FEDERAL FUNDS**

When federal funds are expended by Participating Agency for any contract resulting from this procurement process, offeror certifies that it will comply with the record retention requirements detailed in 2 CFR § 200.333. The offeror further certifies that offeror will retain all records as required by 2 CFR § 200.333 for a period of three years after grantees or subgrantees submit final expenditure reports or quarterly or annual financial reports, as applicable, and all other pending matters are closed.

### **CERTIFICATION OF COMPLIANCE WITH THE ENERGY POLICY AND CONSERVATION ACT**

When Participating Agency expends federal funds for any contract resulting from this procurement process, offeror certifies that it will comply with the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6321 et seq.; 49 C.F.R. Part 18).

### **CERTIFICATION OF COMPLIANCE WITH BUY AMERICA PROVISIONS**

To the extent purchases are made with Federal Highway Administration, Federal Railroad Administration, or Federal Transit Administration funds, offeror certifies that its products comply with all applicable provisions of the Buy America Act and agrees to provide such certification or applicable waiver with respect to specific products to any Participating Agency upon request. Purchases made in accordance with the Buy America Act must still follow the applicable procurement rules calling for free and open competition.

### **CERTIFICATION OF ACCESS TO RECORDS**

Offeror agrees that the Inspector General of the Agency or any of their duly authorized representatives shall have access to any documents, papers, or other records of offeror that are pertinent to offeror's discharge of its obligations under the Contract for the purpose of making audits, examinations, excerpts,



and transcriptions. The right also includes timely and reasonable access to offeror's personnel for the purpose of interview and discussion relating to such documents

#### **CERTIFICATION OF APPLICABILITY TO SUBCONTRACTORS**

Offeror agrees that all contracts it awards pursuant to the Contract shall be bound by the foregoing terms and conditions.

**Offeror certifies compliance with all provisions, laws, acts, regulations, etc. as specifically noted in the pages above. It is further acknowledged that offeror agrees to comply with all federal, state, and local laws, rules, regulations and ordinances as applicable.**

Offeror:

**Fairway Holdings Inc. dba Oasis-Berco**

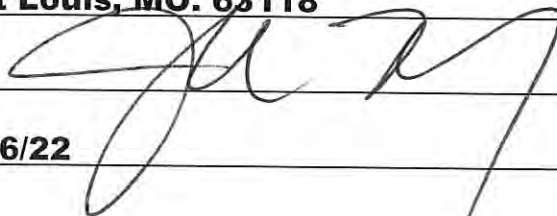
Address:

**111 Winnebago St**

City, State, Zip:

**St Louis, MO. 63118**

Authorized Signature:



Date:

**3/16/22**

## Clean Air and Water Act & Debarment Notice

I, the Vendor, am in compliance with all applicable standards, orders or regulations issued pursuant to the Clean Air Act of 1970, as Amended (42 U.S. C. 1857 (h)), Section 508 of the Clean Water Act, as amended (33 U.S.C. 1368), Executive Order 117389 and Environmental Protection Agency Regulation, 40 CFR Part 15 as required under OMB Circular A-102, Attachment O, Paragraph 14 (1) regarding reporting violations to the grantor agency and to the United States Environment Protection Agency Assistant Administrator for the Enforcement.

I hereby further certify that my company has not been debarred, suspended or otherwise ineligible for participation in Federal Assistance programs under Executive Order 12549, "Debarment and Suspension", as described in the Federal Register and Rules and Regulations

Potential Vendor

**Fairway Holdings Inc dba Oasis-Berco**

Print Name

**John Francosky**

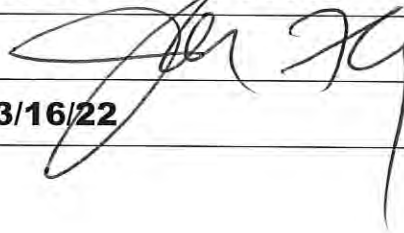
Address

**111 Winnebago St**

City, State, Zip

**St Louis, MO. 63118**

Authorized signature



Date

**3/16/22**

## **Contractor Requirements**

### **Contractor Certification Contractor's Employment Eligibility**

By entering the contract, Contractor warrants compliance with the Federal Immigration and Nationality Act (FINA), and all other federal and state immigration laws and regulations. The Contractor further warrants that it is in compliance with the various state statutes of the states it is will operate this contract in.

Participating Government Entities including School Districts may request verification of compliance from any Contractor or subcontractor performing work under this Contract. These Entities reserve the right to confirm compliance in accordance with applicable laws.

Should the Participating Entities suspect or find that the Contractor or any of its subcontractors are not in compliance, they may pursue any and all remedies allowed by law, including, but not limited to: suspension of work, termination of the Contract for default, and suspension and/or debarment of the Contractor. All costs necessary to verify compliance are the responsibility of the Contractor.

The offeror complies and maintains compliance with the appropriate statutes which requires compliance with federal immigration laws by State employers, State contractors and State subcontractors in accordance with the E-Verify Employee Eligibility Verification Program.

Contractor shall comply with governing board policy of the NCPA Participating entities in which work is being performed

### **Fingerprint & Background Checks**

If required to provide services on school district property at least five (5) times during a month, contractor shall submit a full set of fingerprints to the school district if requested of each person or employee who may provide such service. Alternately, the school district may fingerprint those persons or employees. An exception to this requirement may be made as authorized in Governing Board policy. The district shall conduct a fingerprint check in accordance with the appropriate state and federal laws of all contractors, subcontractors or vendors and their employees for which fingerprints are submitted to the district. Contractor, subcontractors, vendors and their employees shall not provide services on school district properties until authorized by the District.

The offeror shall comply with fingerprinting requirements in accordance with appropriate statutes in the state in which the work is being performed unless otherwise exempted.

Contractor shall comply with governing board policy in the school district or Participating Entity in which work is being performed

### **Business Operations in Sudan, Iran**

In accordance with A.R.S. 35-391 and A.R.S. 35-393, the Contractor hereby certifies that the contractor does not have scrutinized business operations in Sudan and/or Iran.

Authorized signature

Date

  
\_\_\_\_\_  
**3/16/22**

**Antitrust Certification Statements (Tex. Government Code § 2155.005)**

I affirm under penalty of perjury of the laws of the State of Texas that:

(1) I am duly authorized to execute this contract on my own behalf or on behalf of the company, corporation, firm, partnership or individual (Company) listed below;

(2) In connection with this bid, neither I nor any representative of the Company has violated any provision of the Texas Free Enterprise and Antitrust Act, Tex. Bus. & Comm. Code Chapter 15;

(3) In connection with this bid, neither I nor any representative of the Company has violated any federal antitrust law; and

(4) Neither I nor any representative of the Company has directly or indirectly communicated any of the contents of this bid to a competitor of the Company or any other company, corporation, firm, partnership or individual engaged in the same line of business as the Company.

Company name **Fairway Holdings Inc. dba Oasis-Berco**

Address **111 Winnebago St**

City/State/Zip **St Louis, MO. 63118**

Telephone No. **888-772-4788**

Fax No. **888-772-4789**

Email address **jfrancosky@bercotables.com**

Printed name **John Francosky**

Position with company **Executive Vice-President Sales/Marketing**

Authorized signature



## **Required Clauses for Federal Assistance provided by FTA**

### **ACCESS TO RECORDS AND REPORTS**

Contractor agrees to:

- a) Maintain all books, records, accounts and reports required under this Contract for a period of not less than three (3) years after the date of termination or expiration of this Contract or any extensions thereof except in the event of litigation or settlement of claims arising from the performance of this Contract, in which case Contractor agrees to maintain same until Public Agency, the FTA Administrator, the Comptroller General, or any of their duly authorized representatives, have disposed of all such litigation, appeals, claims or exceptions related thereto.
- b) Permit any of the foregoing parties to inspect all work, materials, payrolls, and other data and records with regard to the Project, and to audit the books, records, and accounts with regard to the Project and to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed for the purpose of audit and examination.

*FTA does not require the inclusion of these requirements of Article 1.01 in subcontracts. Reference 49 CFR 18.39 (i)(11).*

### **CIVIL RIGHTS / TITLE VI REQUIREMENTS**

- 1) Non-discrimination. In accordance with Title VI of the Civil Rights Act of 1964, as amended, 42 U.S.C. § 2000d, Section 303 of the Age Discrimination Act of 1975, as amended, 42 U.S.C. § 6102, Section 202 of the Americans with Disabilities Act of 1990, as amended, 42 U.S.C. § 12132, and Federal Transit Law at 49 U.S.C. § 5332, Contractor or subcontractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, creed, national origin, sex, marital status, age, or disability. In addition, Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements FTA may issue.
- 2) Equal Employment Opportunity. The following Equal Employment Opportunity requirements apply to this Contract:
  - a. Race, Color, Creed, National Origin, Sex. In accordance with Title VII of the Civil Rights Act, as amended, 42 U.S.C. § 2000e, and Federal Transit Law at 49 U.S.C. § 5332, the Contractor agrees to comply with all applicable Equal Employment Opportunity requirements of U.S. Dept. of Labor regulations, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor, 41 CFR, Parts 60 et seq., and with any applicable Federal statutes, executive orders, regulations, and Federal policies that may in the future affect construction activities undertaken in the course of this Project. Contractor agrees to take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, creed, national origin, sex, marital status, or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeship. In addition, Contractor agrees to comply with any implementing requirements FTA may issue.
  - b. Age. In accordance with the Age Discrimination in Employment Act (ADEA) of 1967, as amended, 29 U.S.C. Sections 621 through 634, and Equal Employment Opportunity Commission (EEOC) implementing regulations, "Age Discrimination in Employment Act", 29 CFR Part 1625, prohibit employment discrimination by Contractor against individuals on the basis of age, including present



and prospective employees. In addition, Contractor agrees to comply with any implementing requirements FTA may issue.

- c. Disabilities. In accordance with Section 102 of the Americans with Disabilities Act of 1990, as amended (ADA), 42 U.S.C. Sections 12101 *et seq.*, prohibits discrimination against qualified individuals with disabilities in programs, activities, and services, and imposes specific requirements on public and private entities. Contractor agrees that it will comply with the requirements of the Equal Employment Opportunity Commission (EEOC), "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 CFR, Part 1630, pertaining to employment of persons with disabilities and with their responsibilities under Titles I through V of the ADA in employment, public services, public accommodations, telecommunications, and other provisions.
  - d. Segregated Facilities. Contractor certifies that their company does not and will not maintain or provide for their employees any segregated facilities at any of their establishments, and that they do not and will not permit their employees to perform their services at any location under the Contractor's control where segregated facilities are maintained. As used in this certification the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion or national origin because of habit, local custom, or otherwise. Contractor agrees that a breach of this certification will be a violation of this Civil Rights clause.
- 3) Solicitations for Subcontracts, Including Procurements of Materials and Equipment. In all solicitations, either by competitive bidding or negotiation, made by Contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by Contractor of Contractor's obligations under this Contract and the regulations relative to non-discrimination on the grounds of race, color, creed, sex, disability, age or national origin.
- 4) Sanctions of Non-Compliance. In the event of Contractor's non-compliance with the non-discrimination provisions of this Contract, Public Agency shall impose such Contract sanctions as it or the FTA may determine to be appropriate, including, but not limited to: 1) Withholding of payments to Contractor under the Contract until Contractor complies, and/or; 2) Cancellation, termination or suspension of the Contract, in whole or in part.

*Contractor agrees to include the requirements of this clause in each subcontract financed in whole or in part with Federal assistance provided by FTA, modified only if necessary to identify the affected parties.*

### **DISADVANTAGED BUSINESS PARTICIPATION**

This Contract is subject to the requirements of Title 49, Code of Federal Regulations, Part 26, "*Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs*", therefore, it is the policy of the Department of Transportation (DOT) to ensure that Disadvantaged Business Enterprises (DBEs), as defined in 49 CFR Part 26, have an equal opportunity to receive and participate in the performance of DOT-assisted contracts.

- 1) Non-Discrimination Assurances. Contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Contract. Contractor shall carry out all applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by Contractor to carry out these requirements is a material breach of this Contract, which may

result in the termination of this Contract or other such remedy as public agency deems appropriate. Each subcontract Contractor signs with a subcontractor must include the assurance in this paragraph. (See 49 CFR 26.13(b)).

- 2) Prompt Payment. Contractor is required to pay each subcontractor performing Work under this prime Contract for satisfactory performance of that work no later than thirty (30) days after Contractor's receipt of payment for that Work from public agency. In addition, Contractor is required to return any retainage payments to those subcontractors within thirty (30) days after the subcontractor's work related to this Contract is satisfactorily completed and any liens have been secured. Any delay or postponement of payment from the above time frames may occur only for good cause following written approval of public agency. This clause applies to both DBE and non-DBE subcontractors. Contractor must promptly notify public agency whenever a DBE subcontractor performing Work related to this Contract is terminated or fails to complete its Work, and must make good faith efforts to engage another DBE subcontractor to perform at least the same amount of work. Contractor may not terminate any DBE subcontractor and perform that Work through its own forces, or those of an affiliate, without prior written consent of public agency.
- 3) DBE Program. In connection with the performance of this Contract, Contractor will cooperate with public agency in meeting its commitments and goals to ensure that DBEs shall have the maximum practicable opportunity to compete for subcontract work, regardless of whether a contract goal is set for this Contract. Contractor agrees to use good faith efforts to carry out a policy in the award of its subcontracts, agent agreements, and procurement contracts which will, to the fullest extent, utilize DBEs consistent with the efficient performance of the Contract.

#### **ENERGY CONSERVATION REQUIREMENTS**

Contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plans issued under the Energy Policy and Conservation Act, as amended, 42 U.S.C. Sections 6321 *et seq.* and 41 CFR Part 301-10.

#### **FEDERAL CHANGES**

Contractor shall at all times comply with all applicable FTA regulations, policies, procedures and directives, including without limitation those listed directly or by reference in the Contract between public agency and the FTA, as they may be amended or promulgated from time to time during the term of this contract. Contractor's failure to so comply shall constitute a material breach of this Contract.

#### **INCORPORATION OF FEDERAL TRANSIT ADMINISTRATION (FTA) TERMS**

The provisions include, in part, certain Standard Terms and Conditions required by the U.S. Department of Transportation (DOT), whether or not expressly set forth in the preceding Contract provisions. All contractual provisions required by the DOT, as set forth in the most current FTA Circular 4220.1F, dated November 1, 2008, are hereby incorporated by reference. Anything to the contrary herein notwithstanding, all FTA mandated terms shall be deemed to control in the event of a conflict with other provisions contained in this Contract. Contractor agrees not to perform any act, fail to perform any act, or refuse to comply with any public agency requests that would cause public agency to be in violation of the FTA terms and conditions.

#### **NO FEDERAL GOVERNMENT OBLIGATIONS TO THIRD PARTIES**

Agency and Contractor acknowledge and agree that, absent the Federal Government's express written consent and notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying Contract, the Federal Government is not a party to this Contract and shall not be subject to any

obligations or liabilities to agency, Contractor, or any other party (whether or not a party to that contract) pertaining to any matter resulting from the underlying Contract.

*Contractor agrees to include the above clause in each subcontract financed in whole or in part with federal assistance provided by the FTA. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions.*

#### **PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS**

Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 U.S.C. §§ 3801 et seq. and U.S. DOT regulations, "Program Fraud Civil Remedies," 49 CFR Part 31, apply to its actions pertaining to this Contract. Upon execution of the underlying Contract, Contractor certifies or affirms the truthfulness and accuracy of any statement it has made, it makes, it may make, or causes to be made, pertaining to the underlying Contract or the FTA assisted project for which this Contract Work is being performed.

In addition to other penalties that may be applicable, Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on Contractor to the extent the Federal Government deems appropriate.

Contractor also acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification to the Federal Government under a contract connected with a project that is financed in whole or in part with Federal assistance originally awarded by FTA under the authority of 49 U.S.C. § 5307, the Government reserves the right to impose the penalties of 18 U.S.C. § 1001 and 49 U.S.C. § 5307 (n)(1) on the Contractor, to the extent the Federal Government deems appropriate.

*Contractor agrees to include the above clauses in each subcontract financed in whole or in part with Federal assistance provided by FTA. It is further agreed that the clauses shall not be modified, except to identify the subcontractor who will be subject to the provisions.*

### **State Notice Addendum**

The National Cooperative Purchasing Alliance (NCPA), on behalf of NCPA and its current and potential participants to include all county, city, special district, local government, school district, private K-12 school, higher education institution, state, tribal government, other government agency, healthcare organization, nonprofit organization and all other Public Agencies located nationally in all fifty states, issues this Request for Proposal (RFP) to result in a national contract.

For your reference, the links below include some, but not all, of the entities included in this proposal:

[http://www.usa.gov/Agencies/State and Territories.shtml](http://www.usa.gov/Agencies/State_and_Territories.shtml)

<https://www.usa.gov/local-governments>