

AERODYNAMIC SIDE SKIRT

PRODUCT CODE: ARMR + ARMX

SMOOTH WITH CONTINUOUS WOVEN ROVING FIBERGLASS

PRODUCT

Aerodynamic Side Skirts, ARMR, are durable, high impact resistant, and flexible fiberglass reinforced plastic (frp) panels. Made with a woven fiberglass and polyester resin matrix, these panels exhibit a high strength-to-weight ratio with enhanced weatherability and flexibility.

PURPOSE

Aerodynamic Side Skirts are specifically designed and formulated for the use as an exterior side skirt panel for refrigerated and dry van trailers.

DESIGN PROPERTIES

PRODUCT CODE	NOMINAL THICKNESS	NOMINAL WEIGHT	MAXIMUM LENGTH	FINISH	MINIMUM WIDTH	MAXIMUM WIDTH	COLOR
ARMR	0.135" 3.4 mm	1.00 lbs/ft² 4.9 kg/m²	Up to 25' 7.3 m	Smooth	11" 0.3 m	34" 0.86 m	White 85 Gray 49* Charcoal Gray 51* Black 97*
ARMX	·	ARMX- Der	d ARMR panels are otes ARMR panels to meet aerodynar	that are cus	stom cut to spec	cific shapes as d	efined by customers

TYPICAL PHYSICAL PROPERTIES

PROPERTY	ARMR + ARMX	TEST METHOD
FLEXURAL STRENGTH	24.1 x 10 ³ psi 166 MPa	ASTM - D790
FLEXURAL MODULUS	1.0 x 10° psi 6895 Mpa	ASTM - D790
TENSILE STRENGTH	22.1 x 10³ psi 152 MPa	ASTM - D638
TENSILE MODULUS	1.2 x 10° psi 8274 MPa	ASTM - D638
BARCOL HARDNESS	25	ASTM - D2583
IZOD IMPACT	25 ft-lb/in notched 1.33 J/mm	ASTM - D256
COEFFICIENT OF LINEAR THERMAL EXPANSION	1.5 x 10-5 10/10/°F 27 µm/m/°C	ASTM - D696
THERMAL CONDUCTIVITY	0.4 Btu∙in/hr∙ft² ºF 5.0 cal∙cm/hr∙m² ºC	ASTM - C177
WATER ABSORPTION	0.3%/24hrs @77°F 25°C	ASTM - D570
SPECIFIC GRAVITY	1.6	ASTM - D792

SPECIFICATIONS

Crane Composites, Inc. (CCI) panels are manufactured in lengths and widths as required.

COMPOSITION

Reinforcement: Random chopped fiberglass and continuous woven roving fiberglass.

Resin Mix: Modified polyester copolymer, inorganic fillers, and pigments

FINISHED PANEL QUALITY

- 1. The frontside of the panel shall have a smooth finish. The backside of the panel shall have a smooth finish. The backside surface may have some variations which do not affect functional properties and are not cause for rejection. The backside of the panel is comprised of a polyester copolymer surface that is commonly bonded with adhesives or to foam in lamination processes. Typically, no additional preparation is required as long as the surface is dirt and oil free.
- Physical properties shall be as set forth on Page 1.
- Dimensions shall be as specified on purchase order, subject to the following tolerances:

WIDTH: $\pm 1/8"$ (± 3.2 mm)

LENGTH: $\pm 1/8$ " (± 3.2 mm) up to 12' (3.7 m) SQUARENESS: $\pm 1/8$ " (3.2 mm) in 48" (1.2 m) of width

- Average thickness: For thickness ≤ 0.100", ±0.010" For thickness > 0.100", \pm_{10} %
- 5. Bulk Coil policy #6207 applies

DESIGN DATA NOTES

1. Bulk coil may be ordered in long lengths or in specific cut-to-size pieces. Standard coil lengths are 250' and 500', custom sizes are available. Crane Composites reserves the right to manufacture and ship total linear footage of long length bulk coils ordered within the following parameter lengths per piece:

200' | 61.0 m Min. 250' | 76.2 m Max.

Cut-to-size lengths 12' (3.7 m) and over of the same width will be interlapped (18"-36" [457.2 mm-914.4 mm] interlap per panel) into a coil for ease of handling and shipping. Total length tolerance - 0" and +6" (-0 mm and +152.4 mm).

STAINING STATEMENT

Some staining/discoloration may occur to frp liner panels after they have been in service for several years. This is a normal wear condition. As long as acceptable cleaning methods (i.e., steam cleaning) are used, the surface should remain sanitary and acceptable.

FABRICATING RECOMMENDATIONS

NOTE: Protect your eyes with goggles; cover your nose and mouth with a filter mask; cover exposed skin when cutting CCI

HAND FABRICATING: Drilling-High speed drill bit (60° cutting angle, with 12°-15° clearance) or hole saw.

STAPLING: Standard pneumatic stapler.

CUTTING: Sheet metal shears or circular saw with reinforced carborundum or carbide-tipped blade.

PRODUCTION FABRICATING: Use carbide-tipped tools. Straight cuts can be sheared (90° cutting edge with 0.002" [0.05 mm] clearance) or sawed. For irregular cuts, use die punch or band saw.

PAINTING PREPARATION: You should always test and validate the selected paint system with the frp panel prior to application. To properly prepare the panel surface for painting, make sure the surface is clean, dry, and free from all oils, grease, silicones, dust, and other contaminants. Common practices for preparation before painting include using alkaline detergents or clean water. Sanding or roughening of the panel surface is recommended to promote paint adhesion. 600 grit or finer sand paper or a 3M "Ultrafine" Scotch-Brite® pad are commonly used to roughen the surface.

CLEANING INSTRUCTIONS: Contact us for cleaning

SDS: Prior to working with our products, see our most current SDS at cranecomposites.com/sds.html.

STORAGE REQUIREMENTS

Crane Composites panels are designed for peak performance prior to and after the panels have been applied. Careful handling during the manufacturing process is important. Avoid excessive clamping, dropping and scraping. Keep contents dry. Store indoors in a well ventilated area. When outside storage is necessary, cover and protect from the weather and exposure to sunlight.

PLEASE NOTE THE FOLLOWING PRODUCT USE INFORMATION:

Products manufactured by CCI will provide a clean, aesthetically pleasing finished installation. However, by nature, fiberglass reinforced plastic panels may occasionally have small areas that are aesthetically unacceptable for use. Panels should be inspected on-site prior to installation or lamination and original CCI skid tag/ticket number removed and retained. If any portion of material will not provide an acceptable appearance, CCI should be notified at once. Please report the non-conforming product utilizing the retained skid tag/ticket number. Upon verification of unacceptability, CCI will replace or refund the purchase price of the non-conforming product.

We believe all information given is accurate, without guarantee. Since conditions of use are beyond our control, all risks are assumed by the user. Nothing herein shall be construed as a recommendation for uses which infringe on valid patents or as extending a license under valid patents, www.astm.org/Standards/E84.htm.

A global leading provider of resilient wall and ceiling coverings. Kemlite® was established in 1954 and the company changed names to Crane Composites in 2007. Crane Composites is headquartered in Channahon, IL and all our products are easily accessible and readily available to our customers.

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