

FILON® G4+ coilable sidewalls

PRODUCT CODE: G4P

PRODUCT

Filon G4+ is a smooth, gel-coat finished fiberglass reinforced plastic (FRP) panel, formulated for use as an RV sidewall. Filon G4+ is the newest generation of coilable fiberglass to enter the FILON legacy. Filon G4+ provides a higher heat tolerance and improved thermal durability to offer improved performance when exposed to extreme weather conditions.

PURPOSE

Filon G4+ is engineered for use as an RV sidewall ideal for the travel trailer and 5th wheel standard finish market with a high priority on quality and durability.

ATTENTION

The backside of the panel is conducive to lamination. See page 2 regarding lamination and follow adhesive manufacturer's instructions carefully.

DESIGN PROPERTIES

PRODUCT CODE	NOMINAL THICKNESS	NOMINAL WEIGHT	MAXIMUM LENGTH	MAXIMUM WIDTH	MINIMUM BEND RADIUS
G4P	0.050" 1.3 mm	0.35 lb/ft ² 1.7 kg/m ²	Up to 700' 213.4 m	Available up to 110" 2.8 m	7" 178 mm

TYPICAL PHYSICAL PROPERTIES

PROPERTY	G4P 0.050"	TEST METHOD
FLEXURAL STRENGTH	1.79 x 10 ⁴ psi 117 MPa	ASTM - D790
FLEXURAL MODULUS	6.5 x 10 ⁵ psi 4481 MPa	ASTM - D790
TENSILE STRENGTH	0.95 x 10 ⁴ psi 65 MPa	ASTM - D638
TENSILE MODULUS	5.8 x 10 ⁵ psi 3998 MPa	ASTM - D638
IZOD IMPACT	7 ft-lb/in notched 0.31 J/mm	ASTM - D256
WATER ABSORPTION	0.3%/24hrs @77°F 25°C	ASTM - D570

SPECIFICATIONS

Crane Composites panels are manufactured in lengths and widths as required.

COMPOSITION

Reinforcement: Random chopped fiberglass roving.
Resin Mix: Modified polyester resin and inorganic fillers and pigments.

FINISHED PANEL QUALITY

Panels shall have smooth finish on the front side. Color shall be uniform throughout. Backside imperfections which do not affect functional properties are not cause for rejection.

Physical properties shall be as set forth in Table 1. Dimensions shall be as specified on purchase order, subject to the following tolerances:

- WIDTH: ±1/8" (±3.2 mm)
- LENGTH: ±1/8" (±3.2 mm) up to 8' (2.4 m)
±1/4" (±6.4 mm) up to 40' (12.2 m)
- SQUARENESS: 1/8" (3.2 mm) in 48" (1.2 m) of width

Disclaimer: Crane Composites, Inc. (called CCI hereafter) does not make any claims to the combustibility rating of the products listed on this data sheet. Not intended for interior applications.

FABRICATING RECOMMENDATIONS

- NOTE: Protect your eyes with goggles; cover your nose and mouth with a filter mask; cover exposed skin when cutting CCI panels.
- 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: 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. Alkaline detergents or clean water may be used for this purpose. Sanding or roughening of the panel surface is recommended to achieve acceptable paint adhesion, using 600 grit or finer sand paper or a 3M "Ultrafine" Scotch-Brite® pad.
- RV Cleaning Instructions: Available from CCI.
- SDS: Prior to working with our products, see our most current SDS at cranecomposites.com/sds.html

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. This product has not been tested under ASTM E-84 for use in building interiors.

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.

LAMINATION

CCI recommends that the moisture content of the substrate be no greater than 12% at the time of lamination and that the glue coverage between the Crane Composites panel and the substrate be 100% coverage at the weight and thickness recommended by the adhesive manufacturer. Approved substrates include lauan plywood, Azdel, SymaLITE, Fortis, and NTXT (only flat applications approved for NTXT). Use of any substrate must be pre-approved by Crane Composites to be covered under warranty. Prior to lamination the frp panel must be free of debris, moisture, particulates or backside contaminants to ensure 100% bond. The quality of the substrate surface must also be free of debris or particulates prior to lamination. CCI will not be responsible for any loss resulting from sub-standard lamination processes.

Laminating to substrates such as layered paper-based products will void warranty.

After lamination, the substrate must not be subjected to water intrusion or leakage as this may cause delamination and/or gel coat blistering, which will not be covered by under warranty.

SIDEWALL CONSTRUCTION WITHOUT SUBSTRATES

CCI should be consulted before specifying and installing any substrate-free product.

MINIMUM BEND RADIUS

CCI recommends all radius bends be supported by a solid substrate and not exceed the minimum bend radius specified on the product technical data sheet.

DARK COLORS

Dark colors, whether gel-coated or painted, will affect panel performance. Dark colored panels should be tested for performance under all appropriate conditions to make sure such colors will meet the requirements of the application. Dark colors may cause excessive heat build-up on the panel resulting in possible sidewall rippling, delamination, cracking, or decal failure.

To be covered under warranty, dark colors must be pre-approved by CCI.

APPLYING & PAINT FINISHES

Be aware that the application of certain paint or decal film colors, normally those with a darker appearance, may cause excessive heat build-up on the panel resulting in possible sidewall rippling, delamination, or cracking. Dark colored panels should be tested under all appropriate conditions to make sure such colors will meet the requirements of the application. The use of a heat gun to apply or remove decals is not recommended as it will cause cracking of the gel-coat finish and will void this warranty. To be covered under warranty dark colors must be pre-approved by CCI.

COLOR CHANGE

All products, when exposed to weathering and sunlight, change color over time as part of the aging process.

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. See our most current SDS at cranecomposites.com/sds.html prior to working with our products.

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 manufactured in the United States. We work with hundreds of distributors, ensuring our products are easily accessible and readily available to our customers.

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