

NOBLE® SELECT sheet glass sidewalls**PRODUCT CODE: NS****PRODUCT**

Noble Select sheet-glass panels are manufactured by utilizing our patented moving mold process which produces a exceptional mirror-like smooth gel-coated finish designed to distinguish Crane RV sidewalls from the rest. These panels are bonded directly to a composite substrate, wood-free, lightweight wall with a superior high-gloss surface. Noble Select sidewalls are impervious to water, impact and puncture resistant. Along with industry leading durability, they proved superior insulation and sound absorption qualities.

PURPOSE

Noble Select is engineered for use as an RV sidewall ideal for the premium motorized market with a high priority on appearance and durability. These panels are suitable for both free-hung and in-line assembly methods and require no additional substrate.

NOTE:

Noble Select High Strength (substrate C85) is engineered for use in free-hung assembly processes.

NOTE:

Noble Select is the only panel warranted by Crane Composites for full body paint. See warranty document #6242.

DESIGN PROPERTIES

PRODUCT CODE	SUBSTRATE / LAMINATE	NOMINAL THICKNESS	NOMINAL WEIGHT	FINISH	MAXIMUM LENGTH	WIDTH
NS	C85 2.7 mm / 85 mil	0.213" 5.4 mm	1.12 lb/ft ² 5.47 kg/m ²	Smooth	Up to 50' 16.7 m	10" - 120" 0.254 m - 3.05 m
	B85 3.6 mm / 85 mil	0.218" 5.5 mm	0.98 lb/ft ² 4.80 kg/m ²			
	D85 2.7 mm / 85 mil	0.190" 4.8 mm	0.93 lb/ft ² 4.55 kg/m ²			
	E85 2.0 mm / 85 mil	0.167" 4.3 mm	0.92 lb/ft ² 4.48 kg/m ²			

TYPICAL PHYSICAL PROPERTIES

PROPERTY	NS C85 0.213"	NS B85 0.218"	NS D85 0.190"	NS E85 0.167"	TEST METHOD
FLEXURAL STRENGTH	12,884 psi 89 MPa	10,750 psi 74 MPa	10,248 psi 71 MPa	9,770 psi 67 MPa	ASTM - D790
FLEXURAL MODULUS	7.7 x 10 ⁵ psi 5,295 MPa	5.6 x 10 ⁵ psi 3,868 MPa	5.3 x 10 ⁵ psi 3,620 MPa	5.1 x 10 ⁵ psi 3,530 MPa	ASTM - D790
TENSILE STRENGTH	9,577 psi 66 MPa	9,021 psi 62 MPa	8,896 psi 61 MPa	8,665 psi 60 MPa	ASTM - D638
TENSILE MODULUS	9.2 x 10 ⁵ psi 6,324 MPa	8.0 x 10 ⁵ psi 5,502 MPa	8.5 x 10 ⁵ psi 5,881 MPa	9.0 x 10 ⁵ psi 6,171 MPa	ASTM - D638
BENDING STIFFNESS	622 lb-in 70 N-m	483 lb-in 55 N-m	301 lb-in 34 N-m	200 lb-in 23 N-m	Calculated

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: $\pm 1/8"$ (± 3.2 mm)

LENGTH: $\pm 1/8"$ (± 3.2 mm) up to 8' (2.4 m)
 $\pm 1/4"$ (± 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.

CERTIFICATIONS

Meets flammability standards for motor vehicle interior materials as tested in FMVSS 302 and CMVSS 302.

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

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.

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.

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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cranecomposites.com | 1.800.435.0080 | sales@cranecomposites.com