

### NOBLE® SELECT

#### ALL COMPOSITE WOOD-FREE SHEET GLASS PANEL PRODUCT CODE: NS

REV. 11 | 02/17

#### PRODUCT

Noble Select is an All Composite, Wood-Free, Gel-Coated exterior panel with superior surface and weathering performance. Manufactured using a patent pending system the high-gloss panel is comprised of various layers of high-performance gel-coat and a matrix of fiberglass reinforcement and polyester resin.

#### PURPOSE

Noble Select is engineered for use as a sidewall finish for Class A and Class C Motor homes as well as Travel Trailers. 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   2.7mm/106mil	0.203" 5.15 mm	1.09 lb/ft <sup>2</sup> 5.3 kg/m <sup>2</sup>	Smooth	Available up to 50'   15.24 m	10" - 120" 0.254 m - 3.05 m
	D85   2.7mm/78mil	0.184" 4.67 mm	1.02 lb/ft <sup>2</sup> 5 kg/m <sup>2</sup>			
	E85   2.0mm/79mil	0.158" 4.01 mm	0.94 lb/ft <sup>2</sup> 4.6 kg/m <sup>2</sup>			

#### PHYSICAL PROPERTIES

PROPERTY	NS C85   0.203"	NS D85   0.184"	NS E85   0.158"	TEST METHOD
FLEXURAL STRENGTH	13.2 x 10 <sup>3</sup> psi 91 Mpa	10.3 x 10 <sup>3</sup> psi 71 Mpa	10.1 x 10 <sup>3</sup> psi 70 Mpa	ASTM - D790
FLEXURAL MODULUS	0.72 x 10 <sup>6</sup> psi 4964 Mpa	0.53 x 10 <sup>6</sup> psi 3654 Mpa	0.58 x 10 <sup>6</sup> psi 3999 Mpa	ASTM - D790
BENDING STIFFNESS	473 lb-in 53.4 N-m	262 lb-in 29.6 N-m	167 lb-in 18.9 N-m	Calculated
TENSILE STRENGTH	10.4 x 10 <sup>3</sup> psi 72 Mpa	10.3 x 10 <sup>3</sup> psi 71 Mpa	10.3 x 10 <sup>3</sup> psi 71 Mpa	ASTM - 638
TENSILE MODULUS	0.87 x 10 <sup>6</sup> psi 5999 Mpa	0.88 x 10 <sup>6</sup> psi 6067 Mpa	0.97 x 10 <sup>6</sup> psi 6688 Mpa	ASTM - 638





### 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:  $\pm 1/8"$  ( $\pm 3.2$  mm)  
 LENGTH:  $\pm 1/8"$  ( $\pm 3.2$  mm) up to 8' (2.4 m)  
 $\pm 1/4"$  ( $\pm 6.4$  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](http://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.