CRANE Composites

technical data
65147

NOBLE® CLASSIC sheet glass sidewalls

PRODUCT CODE: NCC

PRODUCT

Noble Classic sheet-glass panels are manufactured utilizing our patent moving mold process which produces a durable, exceptionally high gloss, smooth gel-coated finish. These sidewalls designed to distinguish Crane RV Sidewalls from the rest are fully bonded to the lauan wood substrate created the best weight to stiffness ratio for durability.

NOTE

Noble Classic panels are made with CARB Phase 2 Compliant lauan.

PURPOSE

Noble Classic is engineered for use as an RV sidewall ideal for the 5th wheel and motorized market with a high priority on surface appearance at an economical price point. These panels are suitable for free-hung and in-line assembly methods.

NOTE

Noble Classic High Strength (substrates T60 and S60) are engineered for use in free-hung assembly processes.

DESIGN PROPERTIES

PRODUCT CODE	SUBSTRATE / LAMINATE	NOMINAL THICKNESS	NOMINAL WEIGHT	FINISH	MAXIMUM LENGTH	WIDTH
NCC	T60 | 2.7 mm / 57 mil	0.18" | 4.6 mm	0.95lb/ft² | 4.64kg/m²	Smooth	Up to 50' | 16.7 m	10" - 120" 0.254 mm - 3.05 mm
	T85 | 2.7 mm / 85 mil	0.21" | 5.3 mm	1.08lb/ft² | 5.27kg/m²			
	S60 | 3.4 mm / 57 mil	0.206" | 5.2 mm	1.07lb/ft² | 5.22kg/m²			
	S85 | 3.4 mm / 85 mil	0.235" | 5.97 mm	1.15lb/ft² | 5.62kg/m²			

TYPICAL PHYSICAL PROPERTIES

PROPERTY	NCC T60 0.18"	NCC T85 0.21"	NCC S60 0.206"	NCC S85 0.235"	TEST METHOD
FLEXURAL STRENGTH	8.5 x 10^3 psi 59 MPa	8.9 x 10^3 psi 61 MPa	6.89 x 10^3 psi 48 MPa	10.8x 10^3 psi 74 MPa	ASTM - D790
FLEXURAL MODULUS	0.82 x 10^6 psi 5654 MPa	0.78 x 10^6 psi 5378 MPa	0.71 x 10^6 psi 4895 MPa	0.71 x 10^6 psi 4895 MPa	ASTM - D790
TENSILE STRENGTH	6.4 x 10^3 psi 44 MPa	6.2 x 10^3 psi 43 MPa	6.4 x 10^3 psi 44 MPa	8.2 x 10^3 psi 57 MPa	ASTM - D638
TENSILE MODULUS	0.89 x 10^6 psi 6,136 MPa	0.76 x 10^6 psi 5240 MPa	0.842 x 10^6 psi 5805 MPa	0.95 x 10^6 psi 6550 MPa	ASTM - D638
IZOD IMPACT	6.02 ft-lb/in notched 0.32 J/mm	8.21 ft-lb/in notched 0.44 J/mm	20.45 ft-lb/in notched 1.09 J/mm	20.45 ft-lb/in notched 1.09 J/mm	ASTM - D256
COEFFICIENT OF LINEAR THERMAL EXPANSION	1.7 x 10^{-5} in/in/°F 31 µm/m/°C	1.7 x 10^{-5} in/in/°F 31 µm/m/°C	1.7 x 10^{-5} in/in/°F 31 µm/m/°C	1.7 x 10^{-5} in/in/°F 31 µm/m/°C	ASTM - D696
BENDING STIFFNESS	382 lb-in 43.2 N-m	678 lb-in 76.6 N-m	513 lb-in 58 N-m	798 lb-in 90.2 N-m	Calculated

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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.

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.

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.