LEXFAST

3-in-1 Pre-Fabricated Panel

DESCRIPTION & USE

3-in-1 composite panel composed of HR-type Izolon insulation with integrated connection pieces laminated to a Lexcor Lexboard with a white 60-mil thick TPO membrane.

Light and resistant monolithic panel designed to accelerate the installation of roofing systems.

FEATURES & BENEFITS

Total thermal value guarantee - The Fransyl Izolon expanded polystyrene maintains its insulating properties and performance over time even if the product's molecular structure is deformed.

Increases onsite productivity - Simple and fast to install. One single panel covers 182.4 ft².

Monolithic panel - Shortens installation time and minimizes risks of movement within the system. The assembly's quality control is completed in a factory setting.

Hi-Tuff TPO membrane - Based on advanced polymerization technology that combines the durability and weather resistance of ethylene propylene (EP) rubber with the heat weldability of polypropylene.

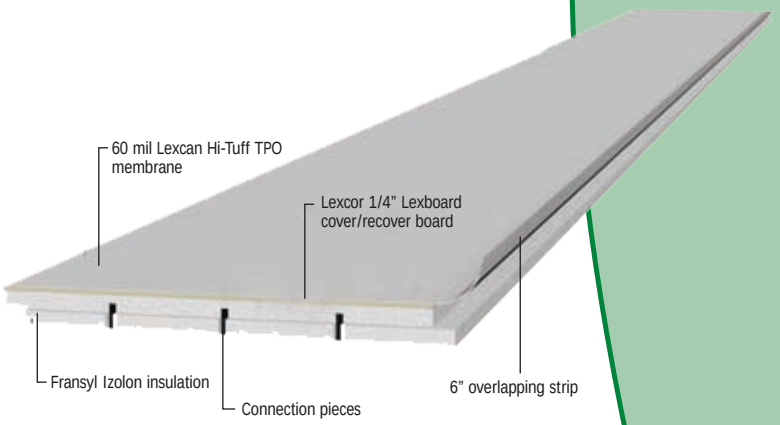
Light - Manoeuvrable by 4 people

TECHNICAL DATA

LEXFAST - DIMENSIONS		
Dimensions[1]	Shiplap	Coverage per panel
Width: 3.83' (1.16 m) Length: 47.625' (14.51 m)	Width: 5/8" (16 mm) Length: 2.5" (63.5 mm)	182.4 ft² (16.83 m²)

[1] Other sizes available upon request
[2] Variable depending on the R-Value required

Thickness: Variable depending on the R-Value required
Weight: +/- 240 lbs with 6" of HR insulation thickness



PHYSICAL PROPERTIES - IZOLON TYPE HR	
Thermal transmission (ASTM C518 C177), 1" (25 mm) thickness	R-3.7 (RSI-0.65)
Water vapour permeability (ASTM E96), 1" (25 mm) thickness	2.66 perm (152.2 ng/Pa·s·m²)
10% Compressive strength (ASTM D 1621), 1,5" (38 mm) thickness	> 93 kPa (> 13.53 lbs/in²)
Flexural strength (ASTM C 203), 1,5" (38 mm) thickness	209.8 kPa (30.52 lbs/in²)
Water absorption (ASTM D2842), 1,5" (38 mm) thickness	4.4 %
Density (ASTM D 1621)	1 lb/ft³ (16.01 kg/m³)
Flame spread (ASTM E84)	15
Flame spread (CAN/ULC S-102.2)	115
Dimensional stability (volume) (ASTM D 2126)	0.32%
Dimensional stability (length and width) (ASTM D 2126)	> -0.54% < 0.19%

ULC evaluation results:
C7 and C12 standard CAN/ULC S-126M
Meets requirements CAN/ULC-S701

FM Classification: Factory Mutual approved for products thereby identified

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PHYSICAL PROPERTIES - LEXBOARD	
Nominal thickness (C-209)	0.25 in (6.4 mm)
Density (D-1622)	17.85 lb/ft³ (0.29 g/cm³)
Thermal resistance (C-518)	R-1.2 (RSI 0.21)
Water vapour permeability (ASTM E96)	< 1.00 perm (< 57.5 ng/Pa·s·m²)
Water absorption (C-209)	2 %
Compressive strength (D-1621)	1034 Kpa (150 lbs/in²)
Dimensional stability (D-2126)	< 0.6 %
Tensile strength (C-1289 Type II, Class 4)	> 95 Kpa (> 2000 lbs/in²)
Smoke development (E84) Complete10 min. evaluation	60
Flame spread (E84) Complete10 min. evaluation	40

Compliant with the following standards:
ASTM C 1289, Type II, Class 4, Grades 1,2 and 3

PHYSICAL PROPERTIES - LEXCAN HI-TUFF TPO MEMBRANE			
CHARACTERISTICS*	TEST METHOD	ASTM D6878 REQUIREMENTS	60-mil (1.5 mm)
Thickness tolerance Thickness over scrim	ASTM D 751 ASTM D 6878 Optical method (Average of 3 areas)	+15%,-10% 0.38 mm (0.015") Min.	± 10% 0.61 mm (0.024") Typ.
Breaking strength	ASTM D-751 (Grab method)	976 N (220 lbf) Min.	1.1 kN (250 lbf) Min. 1.6 kN (360 lbf) Typ.
Tear strength 20.3 cm x 20.3 cm sample	ASTM D-751 (Proc. B method)	245 N (55 lbf) Min.	245 N (55 lbf) Min. 578 N (130 lbf) Typ.
Elongation at fabric break	ASTM D-751	15 % Min.	15 % Min. 25 % Typ.
Field seam strength (Peel test)	ASTM D-1876	No requirements	4.4 kN/m (25 lbf/in) Min. 10.5 kN/m (60 lbf/in) Typ.
Brittleness point	ASTM D-2137	-40°C (-40°F) Max.	-40°C (-40°F) Max. -46°C (-50°F) Typ.
Linear dimensional change 6 hours at 70°C (158°F)	ASTM D-1204	± 1.0% Max.	± 1.0% Max. - 0.2% Typ.
Water absorption 166 hours at 70°C (158°F)	ASTM D-471 Top surface only	± 3.0% Max.	± 3.0% Max. 2.0 Typ.
Water vapour permeance	ASTM E-96 Proc. B	No requirements	0.10 perms, Max. 0.05 Perms, Typ.
Ozone resistance 100 pphm, 168 hours	ASTM D-1149 No cracks 7x	Pass	Pass
Puncture resistance	FTM-101C Method 2031	No requirements	1.3 kN (300 lbf) Min. 1.6 kN (350 lbf) Typ.
Resistance to heat aging (32 weeks @ 115°C)	ASTM D-573		
Breaking strength	Retained	90% Min.	90% Min.
Elongation Reinf.	Retained	90% Min.	90% Min.
Tearing strength	Retained	60% Min.	60% Min.
Weight change	Retained	± 1.0% Max.	± 1.0% Max.

Lexcan TPO membrane meets and exceeds the requirements of ASTM D6878, Standard Specification for Thermoplastic Polyolefin Based Sheet Roofing.

LIMITATIONS

Lexfast must be stored in an elevated position and covered with waterproof tarps.

Lexfast bundles must be tied together solidly so that the wind does not lift the panels, which could damage them.

INSTALLATION

1. Make sure the panels are securely in contact on the vapour barrier, in parallel rows and with no deformations or empty spaces, perpendicular to the steel decking. Fill joints measuring more than 5 mm.
2. Panels must be fastened mechanically with Lexgrip screws and plates.
3. Membranes near securing plates must overlap (over the length of the membrane) as well as over 51 mm, minimum, at the end of the rolls (width of the membrane).
4. Hot weld the membrane sheets over, minimum, 38 mm with an automatic welding machine.

NOTE: The walls or parapets between basins are not required with this system.