

Date Printed: 24 MAR 2009

SPECIFIED MATERIAL: 00001938-S

Effective: 24 MAR 2009  
Supersedes: 30 JUN 2008

NAME: FLOORMATE(TM) BL 500KPA High Load Extruded Polystyrene Foam

MATERIAL DESCRIPTION:

Color: blue  
Odor: odorless  
Appearance/Physical State: board

Description Note:

Board faces: Natural extruded skins  
Edge treatment: Ship Lap  
Application: high load bearing floor insulation  
Fire Classification Note:

The fire performance test standards and regulations differ from country to country as long as no European fire classification exists. This product meets the fire performance class of its country of sales mentioned in the sales specification, not all fire performance classes referred to in the sales specification. Customers are kindly asked to contact the responsible DOW Sales office to obtain more details.

TEST REQUIREMENTS

TEST ITEM AND CONDITION	LIMIT	UNIT	METHOD	N
Thickness Tolerance for Thickness <50mm	-2 Min +2 Max	mm	EN 823	
Thickness Tolerance for Thickness from 50 to 120mm	-2 Min +3 Max	mm	EN 823	
Thickness Tolerance for Thickness >=121mm	-2 Min +8 Max	mm	EN 823	
Width Tolerance	-3 Min +3 Max	mm	EN 822	
Length Tolerance	-6 Min +6 Max	mm	EN 822	
Thickness Uniformity	5 Max	%	ASTM C303	1
Squareness of Edges	40 Max	mm/m	EN 824	
Squareness of Ends	5 Max	mm/m	EN 824	

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TEST REQUIREMENTS (CONTINUED)

TEST ITEM AND CONDITION	LIMIT	UNIT	METHOD	N
Flatness, in length and in width	6 Max	mm/m	EN 825	
Compr. Strength - Vertical	500 Min	kPa	EN 826	
Compr. Modulus - Vertical	20 Aim	MPa	EN 826	
Long Term Load (50 Y, < 2% Deformation)	180 Aim	kPa	EN 1606	
Thermal Conductivity, @ 10degC Mean Temperature, 90 Days	26.0 Max	mW/m.K	EN 12667 and EN 12939	
Water Vapor Diffusion Resistance Factor (MU-Value)	80-250		EN 12086	
Water Absorption by Immersion	0.3 Max	% vol	EN 12087	
Water Absorption by Diffusion	3.0 Max	%	EN 12088	
Water Absorption after Freeze-Thaw	1.0 Max	%	EN 12091	
Bromine Level for Australia and New Zealand	according to B1		TS11989 (DIN 4102 part I)	

SURFACE

SURFACE, NATURAL EXTRUDED SKINS, PRINTED ON 1 SIDE				2
Surface Cracks or Holes, (depth)	+0.125 Max 0.0 Aim	in	ASTM C578	
Surface Cracks or Holes, (depth)	+3.2 Max 0.0 Aim	mm	ASTM C578	

EDGE TREATMENT

PRODUCT IS AVAILABLE WITH SHIP-LAP EDGES				3
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TEST REQUIREMENTS (CONTINUED)

TEST ITEM AND CONDITION	LIMIT	UNIT	METHOD	N
Cut, Ship-lap Depth, (lap cuts on opposite edges will also be on opposing faces), applied to all (4) edges	-1.6 Min +1.6 Max = 0.5 x Board Thickness	mm	ASTM C550	
Cut, Ship-lap Width, (lap cuts on opposite edges will also be on opposing faces), applied to all (4) edges	-1.6 Min +1.6 Max 12.7 Aim	mm	ASTM C550	

Test Requirements Notes:

1. 5% of thickness, but not more than 6 mm and not less than 2 mm.
2. Foam Surface:  
The board will have natural extruded skins with no appreciable defects. The board will not have holes or cracks which extend into the board more than 0.125 inch, (3.2 mm), and there will be no ripples or waves greater than 0.31 inch, (.8 mm).
3. Ship-lap Edge Treatment-SL:  
Boards will be Ship-lap Cut on all four edges. Lap cuts on opposite edges will also be on opposing faces.

NOTES

1. Caution: This material contains a halogenated flame retardant system to inhibit accidental ignition from small fire sources. During Shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources.
2. This product can be stored OUTSIDE. Protect from direct sunlight if prolonged outside storage. Do not use dark colored protective coverings.
3. Standard dimensions are 600 x 1250 mm.
4. Standard thickness are 30, 40, 50, 60, 70, 80, 100 and 120 mm.
5. TM: TRADEMARK OF THE DOW CHEMICAL COMPANY

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READ PRECAUTIONARY INFORMATION AND MATERIAL SAFETY SHEETS. THIS PRODUCT IS SHIPPED IN COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS REGARDING CLASSIFICATION, PACKAGING, SHIPPING AND LABELING.