



**THE DOW CHEMICAL COMPANY  
SALES SPECIFICATION**

**Date Printed:** 2013-01-14

**Effective Date:** 2013-01-11

**Supersedes Date:** 2013-01-05

**Name:** SHAPEMATE™ IB-TR-SL-X Extruded Polystyrene Foam

**Specification Number:** 000000239727

**Previous Specified Material:** 00174532

**Additional Product Information:**

Board faces: planed, grooved on one face only  
 Edge treatment: Shiplap  
 Application: Insulation material to be rendered with  
 cement-based plasters  
 Trade Product Code: 00239727

**Government and Industry Standards**

XPS - EN 13164 - T3 - CS(10\Y)200 - DS(TH) - TR 200-WL(T)1.5

| Test and Test Condition                              | Final Testing Requirements |        |          |      |
|--|----------------------------|--------|----------|------|
|  | Limit                      | Unit   | Method   | Note |
| Thickness Tolerance                                  | -1.0 — 1.0                 | mm     | EN 823   |      |
| Width Tolerance                                      | -3 — 3                     | mm     | EN 822   |      |
| Length Tolerance                                     | -6 — 6                     | mm     | EN 822   |      |
| Thickness Uniformity                                 | 5 Max                      | mm     | EN 823   |      |
| Squareness, ends                                     | 5 Max                      | mm/m   | EN 824   |      |
| Squareness, edges                                    | 40 Max                     | mm/m   | EN 824   |      |
| Flatness, in width and length                        | 3 Max                      | mm/m   | EN 825   |      |
| Compressive Strength, vertical                       | 200 Min                    | kPa    | EN 826   |      |
| Tensile Strength, vertical                           | 200 Min                    | kPa    | EN 1607  |      |
| Declared Thermal Conductivity, for thicknesses <80mm | 31 Max                     | mW/m.K | EN 13164 |      |

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**Final Testing Requirements**

| <b>Test and Test Condition</b>  | <b>Limit</b> | <b>Unit</b>       | <b>Method</b> | <b>Note</b> |
|---|--------------|-------------------|---------------|-------------|
| Declared Thermal Conductivity, for thicknesses >80mm                  | 32 Max       | mW/m.K            | EN 13164      |             |
| Dimensional Stability, (under spec. temperature and humidity), DS(TH) | Pass         |                   | EN 1604       |             |
| Water Vapor Diffusion, Mu-Value                                       | 80 Aim       |                   | EN 12086      | 1           |
| Water Absorption, by immersion  | 1.5 Max      | %                 | EN 12087      |             |
| Density   | 30 Aim       | kg/m <sup>3</sup> | DOWM 102270   |             |
| Fire Performance, Reaction to Fire, Euroclass E                       | Pass         |                   | EN 13501-1    |             |

**Final Testing Requirements Notes:**

- 1 Water Vapor Diffusion, Mu-Value Note  
 Mu-Value =  $\mu$ -Value

**General 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 Storage Notes
- This product should be stored INSIDE.
  - Protect from direct sunlight if prolonged outside storage.
  - Do not use dark colored protective coverings.
- 3 Standard Dimensions
- Width: 600 mm
  - Length: 1250 mm
  - Thicknesses: 30, 40, 50, 60 and 80 mm
- 4 Grooving Pattern Note  
 SHAPEMATE™ IB-TR-SL-X Extruded Polystyrene Foam grooving pattern:

**Surface grooving:**

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**General Notes**

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- Number of grooves per 600 mm width: 22
- Depth of grooves (mm): 5 (+1;-0)
- Width of grooves (mm): 5 (+1;-0)
- Distance grooves C/C (mm): 50 (+/-0.5)
  
- Number of grooves per 600 mm width: 11 (one face groove only)

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