

# 101 EXD

**EXD100 High Density Insulation rigid expanded polystyrene boards**  
suitable for a variety of construction applications ranging from below grade insulation and under concrete slabs, to interior/exterior walls, roofs and more.

Meets and/or exceeds ULC requirements for foamed plastics Type I.

## **BENEFITS**

- Compressive Strength 10 PSI
- Moisture Resistant
- Maintains Long Term Thermal Properties
- Available in custom lengths & thicknesses
- Helps to meet or exceed LEED Project Criteria
- Passive House Standards
- 100% Recyclable

## **APPLICATIONS**

- High Density Insulation for Structural Raft Slabs
- Flat/Sloped Roofs
- Television and Film
- Artwork and Signage
- Exterior/Interior Wall Insulation



e-insulation by  
**eps DEPOT** Inc.

# SPECIFICATIONS

Standard Sheets come in 4'x8' and 2'x8' butt edged. Shiplap also available upon request.



## EXD 100 EPS foamed plastic, Type 1 – Material Properties

| EPS Physical Properties   | ASTM Test Method | Property Values |
|---|------------------|-----------------|
| <b>Thermal Resistance</b> (R-Value per inch) (ft <sup>2</sup> •hr•°F/(BTU•in))<br>minimum | C518             | 3.75            |
| <b>Water Vapour Permeance</b> (ng/Pa•s•m <sup>2</sup> )<br>maximum                        | E96              | 300             |
| <b>Dimensional Stability</b> (% Linear Change)<br>maximum                                 | D2126            | 1.5             |
| <b>Flexural Strength</b> (kPa)<br>minimum   | C203             | 170             |
| <b>Water Absorption</b> (% by volume)<br>maximum  | D2842            | 6.0             |
| <b>Compressive Strength</b> (kPA / PSI)<br>minimum  | D1621            | 70 / 10         |
| <b>Limiting Oxygen Index</b> (%)<br>minimum   | D2863            | 24              |

EXD 100 conforms to CAN/ULC-S701-11 Standard for Thermal Insulation, Polystyrene Board and Pipe Covering Type I. BOZC7.R27245

### ENVIRONMENTAL IMPACT

EPS has much lower negative environmental impacts than most other foam plastic insulation materials. The Environmental Product Declaration (EPD) has been certified by UL Environment. EPS has no nutritional value for insects. EPS insulation resists mold & fungi growth per ASTM C1338.

### RECYCLING

EPS Depot recycles #6 Expanded Polystyrene (EPS) in a clean, non contaminated, dry form for its' customers. EPS can be recycled for reuse in in various applications including packaging, construction, landscaping, outdoor furniture, and more.

### PASSIVE HOUSE

Passive houses are green buildings constructed using a set of international design principles and standards that allow them to use up to 90 per cent less energy for heating and cooling than conventional buildings, thereby producing far fewer greenhouse gas emissions. EXD High Density Insulation is the perfect product to meet and or exceed these requirements, used as the base material for structural raft slabs, or as additional Continuous Insulation on exterior walls. Contact us today for more information.



### FIRE CHARACTERISTICS

Expanded Polystyrene is a combustible material and therefore should be protected from open sources of ignition, such as flames and other sources of combustion. Combustible material of an increased thickness or higher density will increase fuel loading and therefore increase measured flame spread ratings when tested in accordance with CAN/ULC S102.2.

### AVAILABILITY

EXD100 is manufactured by EPS Depot Inc in Mississauga, ON and available through our distribution network. For your local distributor, contact EPS Depot Inc at 905-817-1907.

### MAINTENANCE

Under normal use, no maintenance is required for EPS. Adequate drainage/ventilation can dry out EPS that became wet, per ASTM C1512 tests.