EXD High Density Insulation

e-insulation by eps DEPOT Inc.

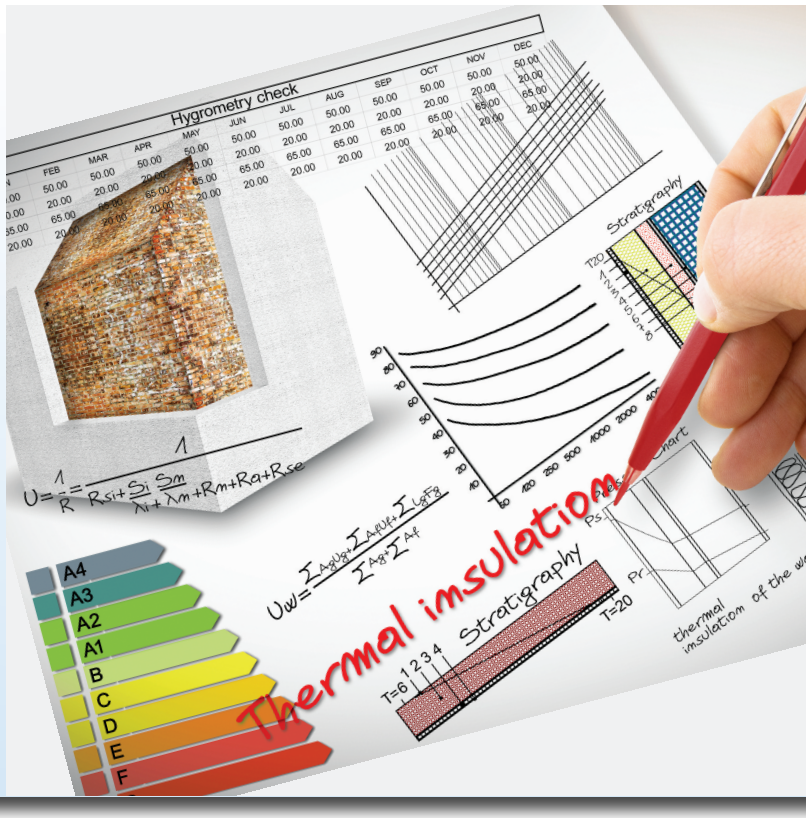
EXD High Density Insulation, rigid expanded polystyrene boards suitable for a variety of construction applications ranging from below grade and under concrete slabs, to interior/exterior walls, roofs and more. Meets and/or exceeds ULC requirements for foamed plastics Type I,II and III.

BENEFITS

Compressive strengths 16-30 PSI
Moisture Resistant
Maintains Long Term Thermal Properties
Available in custom lengths and thicknesses
Helps to meet or exceed LEED and
Passive House Standards
100% Recyclable

APPLICATIONS

High Density Insulation for Structural Raft Slabs
Suitable for under concrete slabs, sidewalks, driveways
Foundation Walls
Flat/Tapered Roofs
Television and Film
Artwork and Signage



eps DEPOT Inc.

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SPECIFICATIONS

Standard Sheets come in 4’ x 8’ and 2’ x 8’ butt edged. Shiplap available.

EPS Physical Properties	ASTM Test Method	EXD 160 Type I Req.	Results	EXD 200 Type III Req.	Results	EXD 250 Type III Req.	Results	EXD 300 Type III Req.	Results
Thermal resistance 1 in (25mm) hr °F ft2/BTU (m2 °C/W)	C-518	Min: 3.7	4.0 (.67)	Min: 4.0 (070)	4.0 (0.72)	Pending	Pending	Min: 4.2 (0.74)	4.26 (0.74)
Water vapour permeability Perm. (ng/Pa · s · m2)	E-96	Max: 300	201	Max: 200	156	Pending	Pending	Max : 130	113.2
Dimensional stability (%)	D-2126	Max: 1.5	0.39	Max: 1.5	0.27	Pending	Pending	Max : 1.5	0.25
Flexural strength lb/in2 (kPa)	C-203	Min: 170	178	Min: 240	287	Pending	Pending	Min : 300	406.8
Water absorption (%)	D-2842	Max: 6.0	0.9	Max: 4.0	1.47	Pending	Pending	Max : 2.0	0.08
Compressive properties lb/in2 (kPa)	D-1621	Min: 10 (70)	15 (102)	Min: 20 (140)	21 (143)	Pending	Pending	Min : 20 (140)	29 (199)
Limiting oxygen index (%)	D-2863	Min : 24	44	Min: 24	42	Pending	Pending	Min : 24	24

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

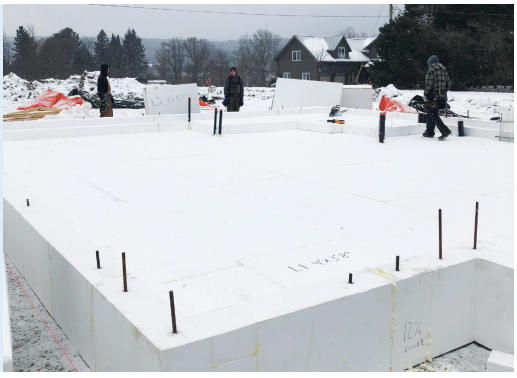
S102.2

GRADE	MATERIAL DETAILS Thickness, mm	Nom Density, kg,m3	CLASSIFICATION OR RATING Flame Spread	Smoke Developed
EPS Foam	25 mm (minimum)	24 (maximum)	200	Over 500
EPS Foam (S)	25 mm (minimum)	32 (maximum)	250	Over 500

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.

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.



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