



R&D Services, Inc.
 209 Tennessee Blvd
 Watertown, TN 37184
 (931) 372-8871
 www.rdservices.com

PRODUCT LISTING

RDS-F3100

Issued: January 1, 2023
 Renewal Due: January 1, 2024

1.0	PRODUCT:	Foamular Branded Extruded Polystyrene (see section 6.0 for more detail)
<hr/>		
2.0	MANUFACTURER:	Owens Corning
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3.0	MANUFACTURING LOCATIONS:	<ul style="list-style-type: none"> • 18456 NE Wilkes Rd, Portland, OR 97230 (Gresham) • 542 Rue Gaetan Valleyfield, Quebec J6S 0A7, Canada • 2710 Laude Dr, Rockford, IL 61109 • 170 South Ave, Tallmadge, OH 44278 • Carretera A Garcia km 2.5 Parque Industrial Finsa II, Nave 5, Santa Catarina N.L. México 66350 (Monterrey)
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4.0	PRODUCT TYPE:	<ul style="list-style-type: none"> • Rigid, Extruded, Cellular Polystyrene Thermal Insulation

5.0 PRODUCT IS EVALUATED ACCORDING TO THE FOLLOWING STANDARD:

- 5.1 ASTM C578-2019 “Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation”
- 5.2 CAN/ULC-S701.1:2017 “Standard Specification for Thermal Insulation, Polystyrene Boards”
- 5.3 HUD UM 71a-1993 “HUD Building Standards and Certification Program for Polystyrene Foam Insulation Board”
- 5.4 ICC-ES AC12-2017 “Acceptance Criteria for Foam Plastic Insulation”
- 5.5 ASTM D6817/D6817M-17 “Standard Specification for Rigid Cellular Polystyrene Geofoam”

6.0 IDENTIFICATION AND MARKINGS:

- 6.1 Packaging of the listed product may contain the manufacturers name and address and the product name. The use of the R&D Services, Inc. (RDS) listing logo (containing the listing number), and the RDS ISO/IEC accreditations are voluntary but will be used in accordance with the listing agreement.

- 6.2 ASTM C578 Type X products include:

Foamular 150	Foamular Insulating Sheathing
Foamular C-200	Foamular Half Inch
Foamular Codeboard	Foamular ProPink
Foamular CC	Foamular CW15
Foamular CI-C	Foamular Pinkcore Tight Tolerance 15
Foamular Pink Drain	Foamular InsulPinkZ
Foamular ThermaPink 18	

This product type and formula have been validated from Valleyfield, Gresham, Tallmadge, Monterrey, and Rockford locations.



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6.3 ASTM C578 Type IV products include:

- | | |
|--------------------------------------|-------------------------------------|
| Foamular 250 | Foamular ThermaPink 25 |
| Foamular 350 | Foamular PinkCore |
| Foamular CC High-R | Foamular LT30 |
| Foamular CW25 | Foamular C-300 |
| Foamular High-R CW Plus | Foamular AgTek |
| Foamular Pink-Drain | Foamular DuraPink FA |
| Foamular Gridboard | Foamular DuraPink Plus |
| Foamular CW25 Foam Sealed | Foamular High R CW Plus Foam Sealed |
| Foamular Pinkcore Tight Tolerance 25 | Foamular CI-C Tight Tolerance |
| Foamular Insul-Drain | |

This product type and formula have been validated from Valleyfield, Gresham, Tallmadge, Monterrey, and Rockford locations.

6.4 ASTM C578 Type VI products include:

- | | |
|-----------------|--------------------------------------|
| Foamular 400 | Foamular LT40 |
| Foamular 404 | Foamular ThermaPink 40 |
| Foamular 404 RB | Foamular Pinkcore Tight Tolerance 40 |
| Foamular Geo 40 | |

This product type and formula have been validated from Valleyfield, Gresham, Tallmadge, Monterrey, and Rockford locations.

6.5 ASTM C578 Type VII products include:

- | | |
|--------------------------------------|-----------------|
| Foamular 600 | Foamular 604 |
| Foamular ThermaPink 60 | Foamular 604 RB |
| Foamular Pinkcore Tight Tolerance 60 | Foamular Geo 60 |

This product type and formula have been validated from Valleyfield, Gresham, Tallmadge, Monterrey, and Rockford locations.

6.6 ASTM C578 Type V products include:

- | | |
|---------------|------------------|
| Foamular 1000 | Foamular Geo 100 |
|---------------|------------------|

This product type and formula have been validated from the Gresham location.

6.7 CAN/ULC-S701 Type 3 products include:

- | | |
|--------------------|--------------------|
| Foamular C-200 | Foamular InsulPink |
| Foamular Codeboard | Foamular Cel-Lok |
| Foamular Half Inch | Foamular Gridboard |

This product type and formula have been validated from Valleyfield, Gresham, and Tallmadge locations.



- 6.8 CAN/ULC-S701 Type 4 products include:
 - Foamular C-300
 - Foamular 350

This product type and formula have been validated from Valleyfield, Gresham, and Tallmadge locations.

- 6.9 ASTM D6817/D6817M XPS26 products include:
 - Foamular Geo 40

This product type and formula have been validated from Valleyfield, Gresham, Tallmadge, and Rockford locations.

- 6.10 ASTM D6817/D6817M XPS36 products include:
 - Foamular Geo 60

This product type and formula have been validated from Valleyfield, Gresham, Tallmadge, and Rockford locations.

- 6.11 ASTM D6817/D6817M XPS48 products include:
 - Foamular Geo 100

This product type and formula have been validated from Gresham location.

7.0 DESCRIPTION OF LISTING PROGRAM:

- 7.1 Each manufacturing location will be visited at least every six months for product selection and quality assurance documentation review by a third party. Evaluation methods will include:

- 7.1.1 RDS-SIP 020
- 7.1.2 CCMC Evaluation Plant Inspection Form

- 7.2 During each inspection, samples of product are selected for testing referenced in 7.3.

- 7.3 RDS will conduct tests in such a manner that a complete set of ASTM and/or CAN/ULC-S701 tests of each type manufactured at a given location within a three (3) year period:

- 7.3.1 Compressive Strength ASTM D1621
- 7.3.2 Flexural Strength ASTM C203
- 7.3.3 Water Vapor Permeance ASTM E96/E96M
- 7.3.4 Density ASTM C303
- 7.3.5 Dimensional Tolerance ASTM C303
- 7.3.6 Trueness and Squareness ASTM C550
- 7.3.7 Dimensional Stability ASTM D2126
- 7.3.8 Water Absorption ASTM D2842
- 7.3.9 Water Absorption ASTM C272/C272M
- 7.3.10 Thermal Resistance ASTM C518
- 7.3.11 Long-Term Thermal Resistance CAN/ULC-S770-15
- 7.3.12 Oxygen Index ASTM D2863



8.0 PRODUCT IDENTIFICATION

- 8.1 Product is sampled by an independent third party according to availability.
- 8.2 Product identified by type according to the corresponding designation listed in ASTM C578-2019, ASTM D6817/D6817M-17, or CAN/ULC-S701.1-2017.

9.0 INSTALLATION:

- 9.1 Product is to be installed in accordance with the manufacturer’s published installation instructions.

10.0 EVALUATED PROPERTIES AND RESULTS:

- 10.1 Table 1 shows the performance requirements of ASTM C578-2019. The evaluated product meets or exceeds the values in the table.

Property	Type X	Type IV	Type VI	Type VII	Type V
Compressive Strength (min., psi)	15.0	25.0	40.0	60.0	100.0
Flexural Strength (min., psi)	40.0	50.0	60.0	75.0	100.0
Water Vapor Permeance [ng/(Pa·s·m ²)]	≤ 1.5	≤ 1.5	≤ 1.1	≤ 1.1	≤ 1.1
Density (min., lb/ft ³)	1.30	1.45	1.80	2.20	3.00
Dimensional Tolerance					
Width (in/ft)	± 0.06				
Length (in/ft)	± 0.03				
Thickness (in)	± 0.06				
Trueness and Squareness					
Face Trueness (in/ft)	< 0.03				
Edge Trueness (in/ft)	< 0.03				
Board Squareness (in/ft)	< 0.06				
Dimensional Stability (max., % linear change)					
Exposure at -40 °F					
Length	2.0				
Width	2.0				
Dimensional Stability (max., % linear change)					
Exposure at 158 °F & 97% RH					
Length	2.0				
Width	2.0				
Water Absorption (max., % by Volume)	0.3				
Thermal Resistance at 75 F (min., F·ft ² ·h/Btu)	5.0				
Oxygen Index (min., volume %)	24				

Table 1



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10.2 Table 2 shows the performance requirements of CAN/ULC S701.1-2017. The evaluated product meets or exceeds the values in the table.

Property	Type 3	Type 4
Long-Term Thermal Resistance (min., m ² ·°C/W)	1.62	1.66
Water Vapor Permeance [ng/(Pa·s·m ²)]	≤ 130	≤ 90
Dimensional Stability (max., % linear change)	1.5	1.5
Flexural Strength (min., kPa)	300	350
Water Absorption (max., % by volume)	2.0	0.7
Compressive Strength (min., kPa)	140	210
Oxygen Index (min., volume %)	24	24
Dimensional Tolerance		
Length (mm/m)	±2.5	
Width (mm/m)	±5.0	
Thickness (mm)		
Up to 75mm thickness	-2.0, +4.0	
More than 75mm thickness	-3.0, +5.0	
Board Squareness (mm)		
Boards up to 1.2m long	±3.0	
Boards longer than 1.2m	±5.0	
Face and Edge Trueness (mm/m)	<2.5	

Table 2

10.3 HUM UM71a performance requirements are met by reference of ASTM C578 shown in section 10.1 of this document.

10.4 ICC-ES AC12 performance requirements are met by reference of ASTM C578 shown in section 10.1 of this document.

10.5 Table 3 shows the performance requirements of ASTM D6817/D6817M-17. The evaluated product meets or exceeds the values in the table.

Property	XPS20	XPS21	XPS26	XPS29	XPS36	XPS48
Density (min., kg/m ³)	19.2	20.8	25.6	28.8	35.2	48.0
Compressive Resistance 1% strain (min., kPa)	20	35	75	105	160	280
Flexural Strength (min., kPa)	276	276	345	414	517	689
Oxygen Index (min., volume %)	24					

Table 3

This listing report indicates that R&D Services, Inc. has evaluated this product as described herein, and it is eligible for listing. No other product is covered by this listing. R&D Services, Inc. makes no warranty, expressed or implied, or guarantee regarding the product covered by this listing.