



FOAMGLAS[®] ASTM C1902 TECHNICAL BULLETIN

This table outlines the basic physical property requirements of ASTM C1902¹ and FOAMGLAS[®] cellular glass insulation compliance. The products are organized, left to right, in ascending compressive strength. The Owens Corning Foamglas[®] Cellular Glass Insulations meet or exceed the requirements of ASTM C1902 listed in the table. For complete details on block types, properties, and other quality requirements, see the actual ASTM standard.

CELLULAR GLASS TYPE	FOAMGLAS [®] T3+	FOAMGLAS [®] T4+	FOAMGLAS [®] S3	FOAMGLAS [®] F	
ASTM C1902 Classification Type	I	II	III	IV	V
Compressive resistance, min, psi (kPa)	50 (345)	55 (379)	100 (689)	160 (1103)	240 (1665)
Density, min, lb/ft ³ (kg/m ³)	5.0 (80)	5.5 (88)	6.9 (110)	8.5 (136)	10.6 (170)
Thermal resistance of 1.00-in. (25.4-mm) thickness, min, hr·ft ² ·°F/Btu (K·m ² /W) Mean temperature: 75±2° (24±1°C)	3.6 (0.64)	3.1 (0.55)	2.9 (0.51)	2.6 (0.46)	2.3 (0.40)
Flexural strength, min, psi (kPa)	30 (207)	35 (241)	45 (310)	65 (448)	85 (586)
Water vapor permeance of 1.00-in. (25.4-mm) thickness, max, perm (ng/Pa·s·m ²)	0.005 (0.007)	0.005 (0.007)	0.005 (0.007)	0.005 (0.007)	0.005 (0.007)
Water absorption by total immersion, max, volume	0.5	0.5	0.5	0.5	0.5

1 ASTM C1902 "Standard Specification for Cellular Glass Insulation Used in Building and Roofing Applications"; published by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959

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