

Property & Test Method	Dow Styrofoam®	Owens Corning Foamular®	<b>STANDARD</b>	<b>GX SERIES</b>
			<b>X-Grade®</b>	<b>X-Grade®</b>
Compressive Strength, ASTM D1621 psi, min.	25 psi	25 psi	<b>25 psi</b>	25 psi
Size	16 x 96	16 x 96	<b>48 x 96 scored</b>	<b>48 x 96 scored</b>
Material	Polystyrene	Polystyrene	<b>Polystyrene</b>	<b>Polystyrene-Graphite</b>
Flexural Strength ASTM C203 psi, min. per ASTM C578	50	50	<b>50</b>	<b>50</b>
Water Absorption ASTM C272 % by volume, max.	0.3	0.1	<b>1.25</b>	<b>1.1</b>
Water Vapor Permeance, ASTM E96, at R10 thickness	0.7	0.5	<b>1.5</b>	<b>1.5</b>
Long-term Maximum Use Temp °F, max.	165°F	165°F	<b>165°F</b>	<b>165°F</b>
Water Affinity	Hydrophobic	Hydrophobic	<b>Hydrophobic</b>	<b>Hydrophobic</b>
Preserved Against Termite Degradation per Code Requirements in SC, GA, FL, AL, MS, LA, TX & CA***	Not Available	Not Available	<b>Standard</b>	<b>Standard</b>
Gas Inside Insulating Cells (per SDS)	Tetrafluoroethane (HFC 134a)	Proprietary Blend (HFC 134a)	<b>Air</b>	<b>Air</b>
GreenGuard Schools & Children	No	Certified	<b>Tested = 0</b>	<b>Tested = 0</b>
Global Warming Potential (GWP)	1430	1430	<b>0</b>	<b>0</b>
<b>Burning Characteristics</b>				
ASTM E84 Flame Spread and Smoke Developed	<25*, <450**	<25*, <450**	<b>&lt;25*, &lt;450**</b>	<b>&lt;15*, &lt;300**</b>
NFPA 285 Approval—Cementitious Claddings	Yes	Yes	<b>Yes</b>	<b>Yes</b>
<b>Warranties</b>				
Thermal Warranty	50 Years	Limited Lifetime	<b>Limited Lifetime</b>	<b>Limited Lifetime</b>
Physical Warranty	50 Years	Limited Lifetime	<b>Limited Lifetime</b>	<b>Limited Lifetime</b>
Termite Resistance Warranty	None	None	<b>Limited Lifetime</b>	<b>Limited Lifetime</b>
<b>ASTM C578 Type</b>	IV	IV	<b>II</b>	<b>IX</b>
Alternate 15 psi Compressive ASTM C578 TYPE	X	X	<b>II</b>	<b>II</b>

\* Code requires flame spread rating of 75 maximum

\*\* Code requires smoke development rating of 450 maximum

\*\*\* IBC 2603.8, IRC R318.4 requires foam plastic below grade or underslab be protected from termite attack in very heavy infestation areas

STYROFOAM® is a registered trademark of The Dow Chemical Company and FOAMULAR® is a registered trademark of Owens Corning Intellectual Capital, LLC. ATLAS, the color Pale Creamy Orange, X-Grade and ThermalStar are registered trademarks of Atlas Roofing Corporation.

