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# GACO WESTERN

*Product Data Sheet:*

**WallFoam™ 193**  
 (formerly PolyFoam 193)  
 January 2009  
 Supersedes: 11/07



## GACO WALLFOAM™ SYSTEM 193

**DESCRIPTION:**

Gaco Western WallFoam 193 is an HFC blown (zero-ozone depleting) liquid spray system that cures to a low-density rigid polyurethane insulation material. Gaco WallFoam 193 contains material derived from naturally renewable resources and does not contain CFC's, HCFC's or other gases harmful to the environment. This system can be sprayed on clean, dry substrates down to 40°F (4.4°C). Refer to Gaco Western General Instructions, SG-GacoFoam for spraying instructions. Gaco WallFoam 193 meets the requirements of ICC-ES AC12 Acceptance Criteria for Foam Plastic Insulation.

**TECHNICAL INFORMATION:**

To ensure optimum performance, a minimum pass thickness of 3/4" (1.9 cm) is recommended with the maximum not to exceed 2" (5.1 cm) per pass. For typical equipment settings, consult Gaco Western's GacoFoam Spray Guide.

Property	Test Temp.	ASTM Test	Unit	Value
Nominal Density: Sprayed-in-Place	77°F (25°C)	D-1622-03	lbs/ft <sup>3</sup>	1.8 – 2.0
Aged R Value: <b>(See Note Below)</b>	75°F (23.9°C) <b>(See Note Below)</b>	C-518	R at 1" R at 4"	6.22 27.17
Compressive Strength: Parallel to Rise	77°F (25°C)	D-1621-04a	psi	37.0
Tensile Strength:	73°F (23°C)	C-1623	psi	95.0
Water Vapor Transmission:	77°F (25°C)	E-96-05	perm-in	0.3
Dimensional Stability:	158°F (70°C) 97% RH	D-2126-99	% Vol change	+4.0

**NOTE:** Federal Trade Commission regulations published in the Federal Register 16 CFR Part 460 require that R value testing of polyurethane foam insulation must be conducted on aged samples at a 75°F mean test temperature. Failure to comply can result in substantial fines by the FTC.

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Property	Test Temp.	ASTM Test	Unit	Value
Recommended Service Temperature Range:			°F / °C	-40°F to 200°F (-40°C to 93°C)
Closed Cell Content:	77°F (25°C)	D-2856C-94	%	90.8

**SURFACE BURNING CHARACTERISTICS:** Tested at Intertek Testing Laboratories (Report Number 3088101-501) in accordance with ASTM E-84, receiving a Class I rating.

System	Thickness	Flame Spread Index	Smoke Developed Index
WallFoam 193	4" (10.2 cm)	25	400

Gaco WallFoam 193 has been approved by the International Code Council Evaluation Services (ICC-ES ESR #2478).

### TYPICAL LIQUID CHEMICAL PROPERTIES

"A" Component contains polymeric isocyanate. "B" Component contains polyol, catalysts and blowing agents.

Property	Test Temp.	ASTM Test	Unit	Value
Viscosity: "A" Component "B" Component	77°F (25°C)	D-2196-68	cps	180 ± 20 400 ± 50
Specific Gravity: "A" Component "B" Component	77°F (25°C)	D-1638-70	S.G.	1.22 1.19
Weight/Gallon: "A" Component "B" Component	77°F (25°C)		lbs/gal	10.2 9.9
Mixing Ratio: "A" & "B" Component	77°F (25°C)		by volume	1:1
Stability: When stored at 50°F to 70°F (10° - 21°C)			months	A: 1 year B: 3 months

**NOTE:** Prior to specifying and installing a polyurethane foam interior insulation system, code officials should be consulted for recommendations and approvals. Although federal, local and state building codes vary, all require that polyurethane foam insulation be covered with an approved 15-minute fire barrier. One typically approved material, for example, is 1/2" (1 cm) gypsum wallboard. However, always check with local officials for recommendations and approvals. It is recommended that the approved thermal barrier be installed the same day the foam is applied.

All hot work, i.e. welding, torches and open flame work must be completed prior to installation of the polyurethane foam insulation. Smoking in the same area while the spray polyurethane foam insulation is being applied shall be strictly prohibited.

Recommendations and safety considerations for application are outlined in Gaco Western's Spray Guide SG-GacoFoam. The aforementioned information on this product is to be used as a guide and is subject to change without notice. These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods and use of our products are beyond our control. Any obligation of the seller or manufacturer shall have no force or effect unless it is in writing and signed by officers of the manufacturer.

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