RIGID FOAM INSULATION FOR CONCEALED APPLICATIONS

ATTRIBUTE	Manufacturer	JM	Atlas	Dow	Dow	Hunter	Hunter	Rmax	Rmax	Rmax
	Product Name	AP Foil-Faced	Energy Shield Energy Shield Plus	TUFF-R	THERMAXci	Xci Foil	Xci Class A	Rmatte Plus3	Thermasheath 3	ECOMAXci
DESCRIPTION	ASTM 1289 Class	Type I, Class 1	Type I, Class 1	Type I, Class 1	Type 1 Class 2	Type I, Class 1	Type I, Class 1	Type I, Class 1	Type I, Class 1	Type I, Class 2
	Facer	Bilaminate foil, one side reflective, other side white non-reflective	Trilaminate foil both sides. Reflective (Energy Shield), non-reflective (Energy Shield Plus).	Foil one side, trilaminate foil other side	4 mil embossed blue foil on one side, 1.25 mil embossed foil on the other	Foil both sides	Embossed foil both sides	Reinforced foil, one side reflective, other side white non-reflective	Bilaminate foil both sides	Glass mat reinforced 1.5 mil foil one side, bilamate 0.3 mil foil other side
	Thicknesses	0.5-4.5	0.5-4.0	0.375 - 2.0	0.5-4.5	1.0-4.0	1.0-4.0	0.5-4.5	0.5-4.5	1.0-3.0
PHYSICAL PERFORMANCE	R at 1"	6.0	6.0	6.5	6.5	not provided (6.7)	not provided (6.3)	6.0	5.9 (6.0)	6.5
	Compressive Strength	16 psi	16 psi	25 psi	25 psi	16, 20, 25	20, 25	20 psi	20 psi	25 psi
	Density	2 pcf	2 pcf	2 pcf	2 pcf	2 pcf	2 pcf	2 pcf	2 pcf	2 pcf
	Water Absorption	<1%	<1%	<1%	<0.1%	<0.05%	<0.05%	<1%	<1%	<1%
	Water Vapor Transmission	<0.05 perm	<1 perm	<0.03 perm	<0.03 perm	<0.05 perm	<0.05 perm	<0.3 perm	<0.3 perm	<0.3 perm
	Dimensional Stability	<2%	<2%	<2%	<2%	2%	2%	<2%	<2%	<2%
	Operational Temperature	-100 - 250° F	-100 - 250° F	-50 - 190° F	<250° F	-100 - 250° F	-100 - 250° F	-40- 250° F	-40- 250° F	-40- 250° F
FIRE PERFORMANCE	Flame Spread	≤25	≤75	≤75	≤25	≤75	<75 (≤ 25)	≤75	≤75	≤25
	Smoke Developed	≤450	≤450	≤450	≤450	≤450	≤450	≤450	≤450	≤450
CODES/APPROVALS	IBC	Types I-V	Type V-B	Type V	Types I-V	Type V	Type V	Type V-B	Type V-B	Types I-V
	IRC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Ignition Barrier Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Exterior Gypsum Required	No	NA	NA	No	NA	NA	NA	NA	NA
	ICC-ESR Thermal	ICC-ESR-3398	ICC-ESR-1375	ICC-ESR-3089	ICC-ESR-1659	ICC-ESR-3174	ICC-ESR-3174	No	ICC-ESR-1864	NA
	ICC-ESR Air Barrier	ICC-ESR-3398	No	ICC-ESR-3089*	ICC-ESR-1659	No	No	No	No	NA
	ICC-ESR Water-Resistive Barrier	ICC-ESR-3398	ICC-ESR-1375	ICC-ESR-3089	ICC-ESR-1659	No	No	No	No	NA
	ABAA Approved Air Barrier	Yes	No	Yes*	Yes	No	No	No	No	NA
	ENERGY STAR	ICC-ESR-3398S	No	No	No	No	No	No	No	No
	Miami Dade	No	Yes	No	No	Yes	Yes	No	No	No

Data as shown is intended to be used as a general guideline only. The physical and chemical properties of Polyisocyanurate Foam Sheathing listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. When manufacturer's published literature varied from ICC-ESR data, ICC-ESR data governs (manufacturer's data shown in parenthesis).

*Requires SPF in cavity.