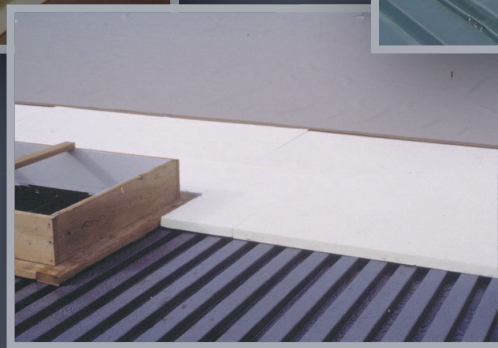
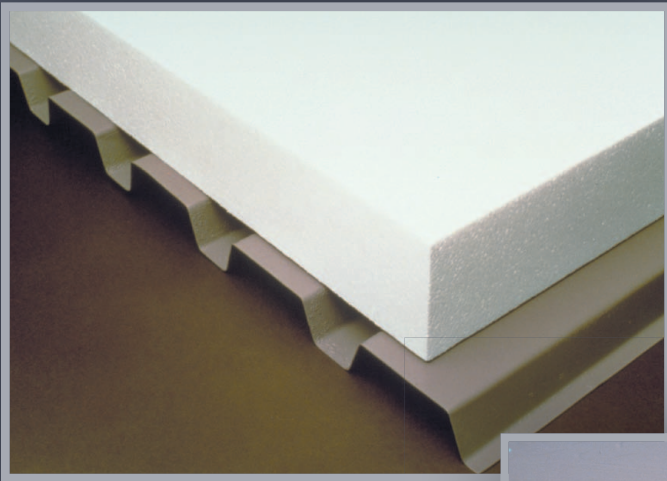


Direct-to-Deck

EPS ROOF INSULATION

Insulation



ACH
FOAM TECHNOLOGIES

LEADING THE INDUSTRY IN EPS MANUFACTURING ●●●

Direct-to-Deck

EPS ROOF INSULATION

Direct-to-Deck Foam-Control® EPS is a cost-effective, durable and energy efficient solution for roof insulation. With the release of ICC-ES Evaluation Report ESR-2043, expanded polystyrene (EPS) insulation can be applied directly over steel roof decks without the use of a code specified thermal barrier, resulting in reduced material and labor costs.

ACH Foam Technologies' Direct-to-Deck Foam-Control® EPS is compatible with all major roofing materials and assemblies. Additional benefits such as design flexibility, resistance to moisture and high R-Value make ACH Foam Technologies' Foam-Control® EPS roof insulation the preferred roofing solution among Architects, Engineers and Contractors.

In comparison to Polyisocyanurate and Extruded Polystyrene, ACH Foam Technologies' Direct-to-Deck Foam-Control® Expanded Polystyrene has lower cost per R-Value. Shorter production time, more plants across the US and shorter shipping distances also make ACH Foam Technologies' Direct-to-Deck Foam-Control® EPS an unbeatable value.

Additionally, environmentally friendly EPS contains no ozone depleting agents, is made with recycled material and is recommended as a component in LEED certified projects.

Physical Properties³

Property		Type I	Type VIII	Type II	Type IX
Nominal Density	lb/ft ³ (kg/m ³)	1.00 (16)	1.25 (20)	1.50 (24)	2.00 (32)
Density ¹ , min	lb/ft ³ (kg/m ³)	0.90 (15)	1.15 (18)	1.35 (22)	1.80 (29)
Design Thermal Resistance ¹ , min per 1.0 thickness	75° F °F•ft ² •h/Btu (°K•m ² /W)	3.85 (0.68)	3.92 (0.69)	4.17 (0.73)	4.35 (0.77)
	40° F °F•ft ² •h/Btu (°K•m ² /W)	4.17 (0.73)	4.25 (0.75)	4.55 (0.80)	4.76 (0.84)
Compressive Strength ¹ @ 10% deformation	psi (kPa)	10.0 (69)	13.0 (90)	15.0 (104)	25.0 (173)
Flexural Strength ¹ , min	psi (kpa)	25.0 (173)	30.0 (208)	35.0 (242)	50.0 (345)
Water Vapor Permeance ¹ of 1.0 in. thickness, max, perm		5.0	3.5	3.5	2.5
Water Absorption ¹ by total immersion, max, volume %		4.0	3.0	3.0	2.0
Oxygen Index ¹ , min, volume %		24.0	24.0	24.0	24.0
Flame Spread ²		20	20	20	20

Insulation

ICC-ES Code Evaluation

ICC-ES Evaluation Report ESR-2043 approves EPS to be applied directly over steel roof decks as a component of a Class A, B, or C roof covering. When required, Direct-to-Deck EPS can be used with 1/4 Dens-Deck or 1/2 inch wood fiber board

Assemblies

Ballasted
Mechanically Attached
Fully Adhered

For complete assembly information, refer to ICC-ES Evaluation Report ESR-2043

Membranes

Accepted Membranes Include:
EPDM, CPE, CSPE, PVC, CR, NBP, EIP, PIB, TPO and TPA

Quality

Thorough fire-safety evaluations conducted by ICC-ES, combined with ACH's strict manufacturing specifications and quality control, assures our customers receive a consistently superior product. ACH Foam Technologies provides quality UL labeled EPS roofing insulation.

Caution: EPS contains a flame retardant; however, it should be considered combustible and not exposed to sources of ignition. ¹EPS core is manufactured to meet the requirements of ASTM C-578 and is listed under ICC 1006. Consult ACH Foam Technologies for current code compliance. ²See UL Certificate available from ACH Foam Technologies. ³R-Value warranty available upon request. Consult ACH Foam Technologies for current code compliance.



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