

TECHNICAL NOTE #103 EPS INSULATION FLUTE SPAN TABLE

EPS Type Specification Reference: ASTM C578

For Direct to Deck applications where Cellofoam[®] expanded polystyrene (EPS) insulation is installed directly over a metal deck and to maintain our long-term performance, a minimum thickness of EPS insulation is required to span the metal deck flutes. The table below shows the minimum recommended thickness of EPS type insulation required for various metal deck types. The minimum thickness of EPS insulation, as shown in the table, assumes normal roof traffic loads during installation of the roofing system.

Minimum Thickness of EPS To Span Metal Deck Flutes				
METAL DECK TYPE	Type A	Type F	Type B	Type N
FLUTE SPAN	1.00 in.	1.75 in.	2.50 in.	2.75 in.
Cellofoam[®] EPS Type I	1-1/4"	2-1/4"	3-1/4"	3-1/2"
Cellofoam[®] EPS Type VIII	1-1/4"	2"	3"	3-1/4"
Cellofoam[®] EPS Type II	1"	2"	2-3/4"	3"
Cellofoam[®] EPS Type IX	1"	1-3/4"	2-1/2"	2-3/4"

NOTE: In applications when an approved coverboard is used with the EPS insulation, the minimum thickness of EPS insulation can be 1" for all EPS Types and Metal Deck Types listed in the table above.

WARNING: This product is combustible and if exposed to a fire of sufficient heat and intensity may burn rapidly. It should not be left exposed or inadequately protected. Consult specific instructions and applicable building codes for use of this product.

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