


# RESIDENTIAL CEILINGS

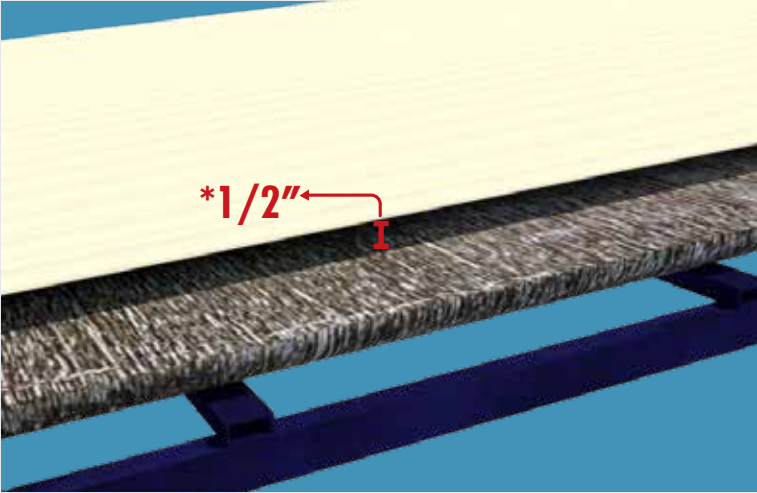
HYBRID REFLECTIVE INSULATION WITH ENCAPSULATED FIBERGLASS CORE

Thermal and acoustic reflective insulation with fiberglass core in the form of rolls, covered with a low emissivity surface that acts as a radiant barrier, vapor barrier, moisture control, and provides excellent mechanical strength.

Hybrid insulation is designed for use within roofing systems. The vapor barrier helps control the amount of moisture that passes through the insulated wall from the interior to the exterior.

It can be applied to metal roofs, effectively reducing heat flow to increase energy savings by lowering the air conditioning load in heated areas.





**\*1/2"**

**HWL**  
R value: **R10**  
\*Air chamber: minimum air gap of 1/2"

**HDL**  
R value: **R14**  
\*Air chamber: minimum air gap of 1/2"

HYBRID INSULATION HWL224 (REINFORCED ALUMINUM FACE + POLYETHYLENE FOAM + FIBERGLASS + POLYETHYLENE FOAM + WHITE POLYETHYLENE FACE)		
DIMENSIONS AND TOLERANCES OF THE STANDARD PRODUCT		
THICKNESS	LENGTH	WIDTH
2"	32'10" ± 4"	24" ± 1"
HYBRID INSULATION HDL224 (REINFORCED ALUMINUM FACE + POLYETHYLENE FOAM + FIBERGLASS + POLYETHYLENE FOAM + REINFORCED ALUMINUM FACE)		
DIMENSIONS AND TOLERANCES OF THE STANDARD PRODUCT		
THICKNESS	LENGTH	WIDTH
2"	32'10" ± 4"	24" ± 1"
TECHNICAL CHARACTERISTICS OF THE PRODUCT		
CHARACTERISTICS	VALUE	STANDARD
WATER VAPOR PERMEABILITY	0.23 perms (gr/ft <sup>2</sup> *h*in.Hg)	ASTM E-96
EMITTANCE	0.072	ASTM C-1371
FLAME INDEX	15	ASTM E-84
SMOKE DEVELOPMENT	45	ASTM E-84
FUNGI RESISTANCE	PASS	ASTM C-1338
PLIABILITY	NO CRACKING / NO DELAMINATION	ASTM C-1224
DELAMINATION AND ADHESIVE PERFORMANCE	NO BLEEDING / NO DELAMINATION	ASTM C-1224
TEMPERATURE AND HUMIDITY RESISTANCE	NO CORROSION / NO DELAMINATION	ASTM C-1258
STC	41	ASTM E-90
OITC	30	ASTM E-90