

LAMIT INDUSTRIES, INC.

STRUCTURAL INSULATED PANELS FOR THE BUILDING INDUSTRY

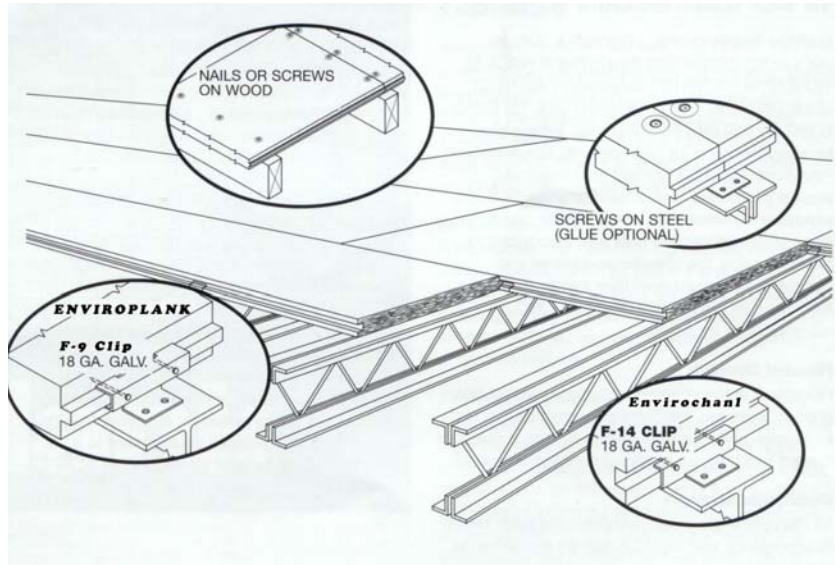
Introducing ENVIROPLANK

General Information

Enviroplank or Envirochanl tongue and groove plank attaches directly to structural framing with welding clips, self drilling screws or nails. The tongues and grooves are tightly nested to provide an attractive ceiling unbroken by sub-purlins. All end joints must fall over supports.

Envirochanl spans farther - without costly subpurlins! Envirochanl has a 16 gauge, galvanized channel that is factory installed in the groove edge. The channel allows the designer to move-joint spaces out, saving money on the structure. Subpurlins are not required so installation, grouting and painting of the subpurlins is eliminated.

Envirochanl can be installed to qualify for a Class 90 rating. See U.L. NM 530 (Roofing Materials & Systems Directory) for details of the rated systems.



Enviroplank, Envirochanl Attachment

Clips: For Enviroplank use F-9 welding clips. For Envirochanl use F-14 welding clips. Use one clip per plank per joist crossing. If lateral restraint is required, specify that two 10d nails be driven through the holes in each clip. Uplift and lateral restraint figures are available upon request.

Nails: Specify 9 gauge insulation type nails with 1" dia. heads. Nails should be at least 1 1/2" longer than the plank is thick. Use 3 nails per plank per joist crossing.

Screws: Specify minimum #14 x (1" longer than the deck is thick*). Use 1 1/2" dia. washers. Specify up to 3 screws per plank per support.
*1 1/2" longer for wood supports.

Enviroplank and Envirochanl systems have been diaphragm tested for resistance to wind or seismic loading. Check with Lamit Industries about your specific application.

MAXIMUM SPAN @ 50 PSF DESIGN LOAD*: (Deflection \leq L/240)

Plank System	Thickness of Plank	C to C Spen Between Purlins**					
		24"	36"	42"	48"	60"	72"
Enviroplank	1 1/2"	50 PSF					
	2"		50 PSF				
	2 1/2"			50 PFS			
	3"				50 PFS		
Envirochanl	2"				50 PFS		
	2 1/2"					50 PFS	
	3"						50 PFS

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ENVIROPLANK\UN

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For high strength, a wide range of insulation values, excellent nailable absorption all in one lightweight structural roof deck panel - nothing compares to Enviroplank\UN.

By using the unique and superior method of "integrally bonding" the three components of Enviroplank\UN, Lamit Industries has developed a panel which possesses the qualities of all three, yet structurally outperforms any one of them.

Besides offering a variety of insulation values and high structural strength, Enviroplank\UN also provides excellent acoustical absorption and an attractive appearance to complement any interior design.

Integral bonding is a quantum leap forward from the days of gluing laminates with commercial adhesives. It is the key to Enviroplank\UN's strength. The three components are bonded simultaneously under electronically controlled conditions in a fully automated process which results in a far stronger and more uniform unit than was ever possible using glue.

Integral bonding uses the insulation itself to bond the Enviroplank\UN and Oriented Strand Board. Polyisocyanurate penetrates into the smallest pores and crevices of the Enviroplank\UN and Oriented Strand Board. Thus, the area of the bond exceeds the flat area of the panel and there is no clearly discernible joint between materials.

The strength of this system has been verified by extensive testing.

Our state of the art manufacturing facility in Columbus, Ohio allows us to manufacture Enviroplank\UN in over 100 combinations of Enviroplank\UN substrate, insulation and nailable topping.

If you consult us early in the design phase, we can show you the most economical way to achieve your desired results. At any stage of design or construction we can tailor a system to fit your requirements.

NAILABLE TOP SURFACE

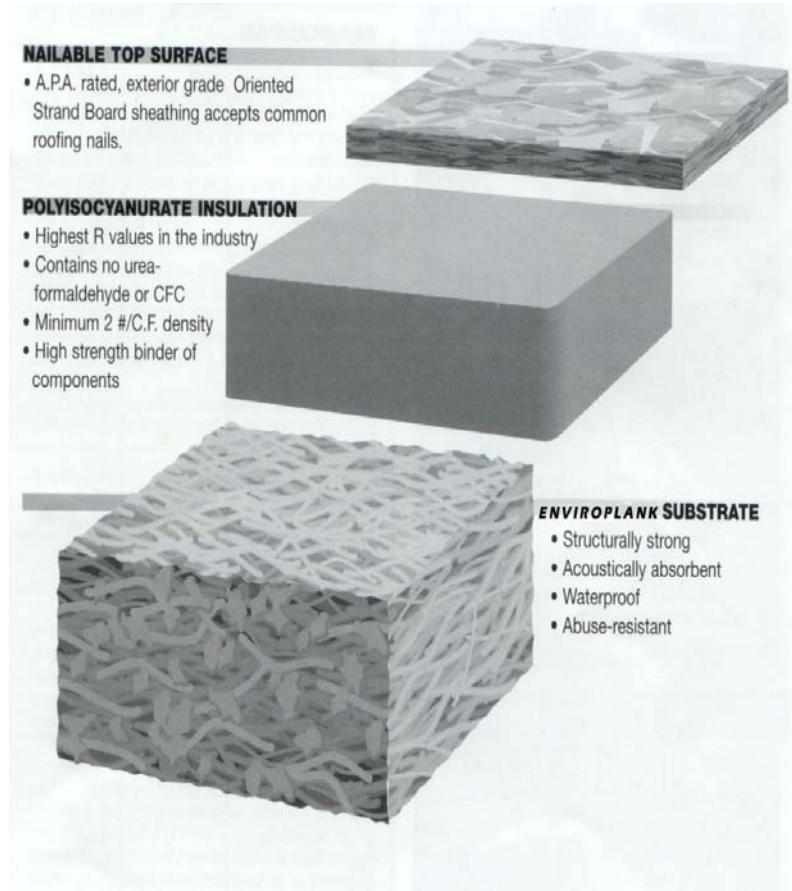
- A.P.A. rated, exterior grade Oriented Strand Board sheathing accepts common roofing nails.

POLYISOCYANURATE INSULATION

- Highest R values in the industry
- Contains no urea-formaldehyde or CFC
- Minimum 2 #/C.F. density
- High strength binder of components

ENVIROPLANK SUBSTRATE

- Structurally strong
- Acoustically absorbent
- Waterproof
- Abuse-resistant



Polyisocyanurate Foam Insulation (Contains NO CFC)

Property	Test	
Density	ASTM D-1622 @ 74°F	2 lb/ft ³ minimum
Weight		0.167 #/inch thickness/ft ²
Compressive Strength	ASTM D-1621 @ 74°F	18.7 PSI
Shear Strength	ASTM C-273 @ 74°F	46 PSI
k Factor (aged)	per ASHRAE guide	.16
Closed Cell Content	ASTM D-2856	90%
Water Absorption	ASTM C-209	.08 lbs/ft ² surface
Dimensional Stability	ASTM D-2126-C&X @ 158°F/100% RH	8%
	@ -20° F/Ambient	1.5%
Water Vapor Permeance	ASTM E-96-90	.00459 PERMS