



ELAMINATOR[®] Insulation System 300 Series Machines
FullPurlin Profile[™] (HIGH R SYSTEM)
TECHNICAL BULLETIN



The picture above shows two purlin runs of the FullPurlin Profile[™] with Perpendicular Banding 5 feet on center.

FullPurlin Profile[™] is an ELAMINATOR banded High R insulation system which installs banding from underneath before roofing on a 5 foot spacing perpendicular to the purlins, then uses the 300 Series machines to install the ELAMINATOR insulation from the top between the purlins with the patented folded facing along with two plastic bands parallel to the purlins as the metal roof is installed and then finishes the installation underneath by double stick taping the overlapped facing tabs under the purlin.

This provides a module finish to the roof interior while concealing the purlins. Competing in appearance and thermal performance claims of other filled cavity systems. Roof installation meets OSHA requirements for fall protection with the 300 Series Machines.

ELAMINATOR Insulation, first layer, between purlins can be R-19 or R-25 while, second layer, over the purlins R-10, R-11 or R-13 can be installed. Therefore a total of R-38 out-of-package R-value can be installed. If in-place thermal performance is required, use U-value table:

ELAMINATOR Insulation over purlins	ELAMINATOR Insulation between purlins	Foam Block on Purlins	U-Value	R-Value
R-13	R-19	1-in. X 3-in	0.040	25
R-11	R-19	1-in. X 3-in	0.042	24
R-13	R-19	none	0.046	22
R-11	R-19	none	0.048	21

Data Obtained by ANSYS, finite-element model, validated by hot box tests (ASTM C 976)



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The picture above shows approximately 20SF of the FullPurlin Profile™ at a straight up view from five feet below the system. Perpendicular Banding is 5 feet on center.

FullPurlin Profile™ is installed in three steps:

1st White metal banding (1¾ inches wide) is stretched and secured from eave to ridge prior to roofing, 5 feet on center.

2nd ELAMINATOR 300 Series machines install folded facing (WMP-10 or VR facing width that is 4" greater than the center-to-center width of the purlin space and folded to a width 10" less), two white polyethylene 2" bands equally spaced for the purlin space and two layers of ELAMINATOR Insulation (R-19 between the purlins with a special step down Cantilever Plate and R-11 over the purlins) as the roof sheets are installed meeting OSHA fall regulations.

3rd Once the roof is completed, a two-man crew finishes the installation inside the building by double stick taping the two adjacent facing tabs overlap to the bottom of the purlin and securing with a mechanical fastener the perpendicular banding into the purlin and through the overlapped facing tabs.

Note 1: Project may only require one band parallel with purlins and different spacing for perpendicular banding. Franchisee determines final banding design for project.

Note 2: Project may not require overlapped facing under purlins. Franchisee determines final facing design for project