

TECHNICAL NOTE 97.03

Securement Details for HEAVYGUARD® Ballasted Roof Insulation Jobs

The increased weight of HEAVYGUARD® provides increased wind stability. The securement requirements for HEAVYGUARD remain the same as LIGHTGUARD®. Therefore, always follow the current published strapping requirements for LIGHTGUARD.

This note will address differences that using HEAVYGUARD instead of LIGHTGUARD, will entail. The main differences in the two products are: 1) its finished thickness and 2) its increased board weight.

1) Consideration must be given to the increased thickness where clearance heights are critical. The finished product thicknesses are listed below. The use of HEAVYGUARD over the membrane surface may require that access doors will have different threshold heights than those normally designed for LIGHTGUARD.

2" HEAVYGUARD¹ ~ 3" finished
3" HEAVYGUARD¹ ~ 4" finished

The increased thickness of the latex modified concrete topping of the HEAVYGUARD changes the dimensions of our normal fasteners. Corrosion-resistant curling fasteners that lock beneath the concrete surface are the present fastener of choice. The TPR-2 fastener is acceptable for this application. The TPR Peel Rivet is available from SFS Stadler, 800-648-6032.

2) The dead-load/live-load issue is one of great importance whether in new construction or retrofit. T. Clear LIGHTGUARD weighs 4.5 psf and the HEAVYGUARD weighs approximately 11psf. This weight factor must be considered when in the design stage of construction.

¹ All HEAVYGUARD products are special orders. Please contact T. Clear Corp. for availability and lead time. LIGHTGUARD® and HEAVYGUARD® are registered trademarks of T. Clear Corporation.