

Date: March 2003

## ***ROOFING TECHNICAL BULLETIN - #03-03***

### **5Ft. Wide Membrane Fastening Spacing for Non FM Insured Projects**

We are pleased to introduce an accepted method for mechanically fastening our 5 ft. wide S327 membrane for buildings less than 60 feet in height and **non FM insured buildings**. The following chart shows the maximum distance between fasteners in the field of the roof, depending on the uplift pressure (1-60 or 1-90), deck type and fastening system.

The perimeter and corner areas shall be calculated in the standard manner, using the lower value from the formula of 10% of the least plan building width or 40% of the building height, with a minimum of two sheet widths (approximately 10 feet). Perimeter and corner areas of the roof will use the same 5 ft. membrane, however the spacing between the fasteners shall be decreased by a minimum of 6 inches. For example, if the field of the roof is fastened at a rate of 18 inches on center, the perimeter and corner shall be fastened 12 inches on center.

Please contact Sarnafil Technical Department for any building that is greater than 60 feet in height or that requires a design uplift greater than 90 PSF.

The fastening rates and perimeter/corner layouts described in this bulletin are not to be used on any FM insured project.

## 5-Foot Fastening Chart Non FM Insured Projects Only

DECK TYPE		Fastener/Disc			
		XP/XPN	XP/Rail	Maxload/Disc	Maxload/Rail
		1-60/1-90	1-60/1-90	1-60/1-90	1-60/1-90
STEEL	20 gauge	18" / 12"	24" / 18"	24" / 18"	24" / 24"
	22 gauge	18" / 12"	24" / 18"	24" / 18"	24" / 18"
	24gauge	12" / --	18" / 12"	18" / 12"	18" / 12"
	26 gauge	NA	NA	18" / 12"	18" / 12"
WOOD	1/2" - 5/8"	12" / 12"	18" / 12"	18" / 12"	18" / 18"
	3/4"	18" / 12"	18" / 18"	NA	NA
	1" +	18" / 12"	18" / 18"	NA	NA
CONCRETE		24" / 18"	24" / 18"	NA	NA