

# TECHNICAL BULLETIN

## TARGET MARKET ROOFING



BUILDING TRUST

**Subject: Improved FM Ratings with RhinoBond #15-2**

Recent testing at FM has resulted in better RhinoBond system ratings over steel deck. Improvements involve the use of Sarnafastner-XP vs. Sarnafastener MAXLoad and/or 33 ksi vs. 80 ksi steel deck. The basics of the previous ratings are as follows:

FM Wind Uplift Rating	Steel Deck Type	RhinoBond Plate Spacing	Fastener
1-90	FM Approved Min. 22 Gauge, 33 ksi*	2 X 3	Sarnafastener MAXLoad
1-90	FM Approved min. 22 Gauge 80 ksi	2 x 3	Sarnafastener-XP
1-120	FM Approved Min. 22 Gauge, 33 ksi*	2 X 2	Sarnafastener MAXLoad
1-120	FM Approved min. 22 Gauge 80 ksi	2 X 2	Sarnafastener-XP

The basics of the new rating are as follows:

FM Wind Uplift Rating	Steel Deck Type	RhinoBond Plate Spacing	Fastener
1-90	FM Approved Min. 22 Gauge, 33 ksi*	2 X 3	Sarnafastener-XP
1-120	FM Approved Min. 22 Gauge, 33 ksi*	2 x 2	Sarnafastener-XP

\* Min. 22 gauge or heavier

The full descriptions of the new ratings are shown below:

Membrane: S327 or Sikaplan Fastened induction welded to PVC Rhino Plates.

Insulation Attachment: PVC Rhino Plates are fastened through the insulation to the steel deck with Sarnafastener-XP fasteners spaced in a 2x3 ft. grid pattern.

Insulation: Minimum 1.5 in. thick FM Approved insulation currently listed in Sika Sarnafil assemblies with the PVC Rhino Plate.

Deck: FM Approved Min. 22 Gauge, 33 ksi

Wind Uplift Rating: Class 1-90



Fire Rating: Class A – 2:12 Slope for S327  
 Class A – ½:12 Slope for Sikaplan Fastened

Hail: SH

Cover: S327 or Sikaplan Fastened induction welded to PVC Rhino Plates.

Securement: PVC Rhino Plates are fastened through the insulation to the steel deck with Sarnafastener-XP fasteners spaced in a 2x2 ft. staggered grid pattern.

Insulation: Minimum 1.5 in. thick FM Approved insulation currently listed in Sika Sarnafil assemblies with the PVC Rhino Plate.

Deck: Steel deck, FM Approved minimum 22 ga. Grade 33 Steel Deck secured to the ¼ in. thick steel deck supports spaced maximum 6 ft. o.c. with one #12 ICH Traxx 5 fastener spaced maximum 6 in. (152 mm) o.c. The deck side laps secured with one secured with one #10 ICH Traxx 1 fastener spaced maximum 24 in. o.c.

Wind Uplift Rating: Class 1-120

Fire Rating: Class A – 2:12 Slope for S327  
 Class A – ½:12 Slope for Sikaplan Fastened

Hail: SH