



Diamond Plate Anti Fatigue

In a rigorous environment, exceptional comfort, dimensional stability and durability are the hallmarks of a successful anti-fatigue mat. Our Diamond Plate products are manufactured from specially formulated proprietary low static formulation vinyl compounds. Diamond Plate mattings are a superior value with puncture resistance that exceeds comparable rubber products by up to 90%. This increased spike resistance helps eliminate premature failure due to exposure to casters, heels, and other sharp objects. These materials are only available through the Rhino Mats and Matting division Ranco Industries.

- Surface shall be permanently fused to a closed cell polymeric sponge base, comprised of polyvinyl chloride, acrylonitrile butadiene rubber and chloroprene.
- Sponge base shall have a skin surface to block moisture and resist most oils and industrial chemicals.
- Edges of sponge base shall be beveled to within 1.5” of the top surface to effectively taper the edges of the surface to the floor and create a visibly bonded incline around the perimeter of the mat, and seal the edge of the beveled sponge base to the surface.

Physical Properties and Specifications

Characteristic	Test Method	Reflex Result
Tensile Strength	ASTM D-412	1000 lbs. / sq. in.
Elongation	ASTM D-412	300%
Puncture Resistance	ASTM D-1046(Section 19)	36.5 Pounds
Taber Abrasion Resistance (Surface)	ASTM D-4060, CS-17 wheel H-22 wheel	1000 Grams, 1000 Revs .1 grams lost .22 grams lost
Flammability	Motor Vehicle Safety Standard No. 302(49CFR 541.302)	Self-Extinguishing (A)
Surface Hardness (Shore A)	ASTM D-2240	90+/5
Graves Tear Strength:	ASTM D-1004	
Longitudinal		39.3 Pounds
Transitional		40.9 Pounds
Wear Surface Thickness	Calipers	5/32 inches
Slip Resistance of Composites:		
On Tile Floor	Scales	1.8 Pounds Force
On Carpeted Surface		3.8 Pounds Force
Density (Sponge)		7 lbs. / ft. ³
25% Compression Resistance (PSI)	ASTM D-1056	5.0 – 9.0
50% Compression Set (%)	ASTM D-1056	40
Overall Thickness	Gauge	9/16 inches Heavy Duty 15.16 inch Super Duty
Weight	1.2 lbs. sq. ft. 1.5 lbs. sq. ft.	Heavy Duty Super Duty

Chemical Resistance (Surface)

Chemical	Ranking	Chemical	Ranking
Butyl Alcohol	Good	Nitric Acid (dilute)	Excellent
Carbon Tetrachloride	Good	Nitric Acid 30%	Excellent
Chromic Acid (dilute)	Great	Potassium Permanganate(dilute)	Good
Gasoline	Great	Sodium Perborate	Good
Hydrogen Peroxide (dilute)	Good	Sodium Hydroxide	Good
Most Acids	Good	Sulfuric Acid (dilute)	Good
Most alkalis	Good	Water	Excellent