



GENERAL CHARACTERISTICS

The GANTREX MK 4 pad has been specially designed for the soft mounting of crane rails with light loads and low duty classifications including CMAA Classes A, B and C.

The main functions of the pad are to:

- distribute the wheel load over a larger surface area
- eliminate load concentrations and the resulting fatigue stresses
- compensate for the uneven surface between the rail and its support
- reduce impact, vibration and noise
- eliminate fretting corrosion (wear) of the support surface under the rail
- improve wheel and rail life

The GANTREX MK 4 pad fulfills these requirements in the following manner:

- 1) It is manufactured from a synthetic elastomer especially resistant to wear, shear and crushing as well as grease, ozone and ultraviolet rays.
- 2) It is reinforced with a high strength, galvanized steel strip that is at least 60% of the width of the pad and fully vulcanized to the rubber. The reinforcement acts as a diaphragm to give the pad lateral stiffness. It also significantly increases vertical stiffness which controls the bending stress of the rail.
- 3) It is manufactured by a continuous extrusion process which eliminates problems commonly experienced with a batch molding process. These problems include variations in density, risk of contamination, pad straightness and centering of the reinforcing steel. It also allows the pad to be extruded in lengths of 60' or more.

INSTALLATION RECOMMENDATIONS

GANTREX reinforced pad is recommended for all installations, both indoors and out. MK4 pad is for light rail applications and MK6 pad is for heavy duty applications. For each installation, GANTREX will recommend the type of pad which best meets the service conditions. For optimum results, GANTREX crane rail clips should be used to prevent lateral movement of the rail. Hook bolts should NOT be used with GANTREX pad.

The upper surface of the supporting structure should be clean and free from oil, grease and any sharp or abrasive particles that are likely to damage the pad.

The pad should be laid in continuous lengths on the support surface with the ends butted tightly together and centered at a pair of rail clips. It should be cut as needed to ensure that a pad joint does not coincide with a rail joint or with a gap between adjacent girders. Where possible, the shortest piece of pad should be no less than ten feet. The pad should be centered beneath the rail flange so that it is completely covered.

MATERIAL CHARACTERISTICS

- Shore A hardness 75 ± 5
- Tensile strength, after aging minimum 1525 psi
- Elongation, after aging minimum 200%
- Permanent set 5%
- Rebound Resilience 30%

VIBRATION AND NOISE REDUCTION

A noise reduction of approximately 10% and vibration reduction of up to 48% can be expected when GANTREX pad is used

SERVICE TEMPERATURE

-15°F to +210°F: For higher or lower temperatures, consult GANTREX.

DIMENSIONS

- Pads are supplied in rolls with standard lengths of 39' 4" and a thickness of 1/4".
- Tolerances on length: ± 2". Roll lengths of 60' or more available on request.

TYPES

RAIL SIZE	PAD MODEL NO.	MAXIMUM VERTICAL WHEEL LOAD *(kips)	RAIL FLANGE WIDTH (ins.)	PAD WEIGHT (lbs/ft)
20 ASCE	65 RF	7	2 5/8	.44
30 ASCE	75 RF	12	3 1/8	.52
40 ASCE	82 RF	17	3 1/2	.54
60 ASCE	103 RF	25	4 1/4	.67
80 ASCE	123 RF	35	5	.87
85 ASCE	123 RF	37	5 3/16	.87

- Consult GANTREX if your rail size is not shown here.
- See GANTREX MK 6 data sheet for heavy duty applications or wheel loads greater than those above.
- * Based on maximum working limit of 1,000 psi pressure on pad.

GANTREX reserves the right to discontinue or change specifications or design at any time without prior notice and without incurring any obligation whatsoever.



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