Summary of Lab Test Results on TYPAVE™ 25
(TRI Report Reference: E2598-32-03; Client: PGINW-Fiberweb)

Physical Ring Data:
2.30 in. O.D. x 1 in. high (2.11 in. I.D.)
0.597 sq. in. of plastic surface contact area per ring
3.58 sq. in. surface contact area per 6 ring test section
Physical Molded Unit Data (injection molded HDPE):
10 in. x 6.25 in. x 1 in. high (62.5 sq. in. per unit), 13.8 rings per sq. foot (avg. 10.4 sq. in. per ring)

Lab Test Data: Bare Rings, with deflection stopped at 0.032 in.
12,257 lbs load to test section (6 rings)
3,424 psi plastic resin strength (12,257/3.58)
2,043 lbs per ring (12,257/6)
196.1 psi over test section area (12,257/62.5)
28,238 lbs per square foot load capacity (196.1x144)

Lab Test Data: Sand Filled Rings
410,089 lbs per test section area (machine load)
68,348 lbs per filled ring (410,089/6)
6,561 psi load over test section area (410,089/62.5)
944,784 lbs per square foot load capacity (6561 x 144)

Examples of Usage – TYPAVE™ 25
Auto tires—40 psi vs 6561 psi = 164x safety factor (6” x 6” tire contact area)
Truck tires—110 psi vs 6561 psi = 60x safety factor (6.5” x 6.5” tire contact area)
DC 10 tires—250 psi vs 6561 psi = 26x safety factor
F-16 tires—350 psi vs 6561 psi = 19x safety factor
Fire Truck Outriggers - 70,000 lbs/4 = 17,500 lbs/(12 in x 18 in) = 81 psi vs 6561 psi = 81x safety factor

Heavy Truck Axle Load Demand = 36,000 lbs on 4 tires (similar to old H-20 loading) (9” x 9” tire contact area x 9000 lbs per tire at 110 psi tire pressure)
TYPAVE™ 25 “bare” capacity = 196.1 psi x 81 sq.in. = 15,884 lbs/tire x 4 = 32 ton axle.
TYPAVE™ 25 “filled” capacity = 6561 psi x 81 sq.in. = 531,441 lbs/tire x 4 = 1063 ton axle load.

Note:
Actual load bearing capacities of pavements using these products must provide for a rigid base to receive and accommodate the design loads planned - which are transferred from the surface to the base course by the rings. All load figures provided above for TYPAVE™ 25 are based upon lab tests conducted by TRI Environmental, Inc., Austin, Texas using its laboratory resources.

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