

H. H. Holmes Testing Laboratories, Inc.

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Report No. 08-191
Re: convex/domed grate
Date of Test: 10/20/08

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TESTING CONDUCTED FOR: Tuf-Tite Corporation
1200 Flex Court
Lake Zurich, IL 60047

Attn.: Ted Meyers
847-550-1011

ITEMS TESTED: TR1 Trench Drain mounted in concrete base and utilizing a convex/domed grate

OBJECT OF TEST: To determine the compressive strength of the unit

TEST PROCEDURE: Testing conducted per ASTM testing standards utilizing a 1 5/8" x 1 5/8" x 12 1/2" metal test load bar at test conditions: 23+/-3° C and 50+/-5% RH

FINDINGS:	<u>Force</u>	<u>Stress</u>	<u>Deflection</u>
	1000 lbs	49.24 psi	no deflection evident
	2000 lbs	98.47 psi	no deflection evident
	3000 lbs	147.71 psi	unit incurred ~1/8" deflection
	4000 lbs	196.95 psi	unit incurred ~1/8" deflection
	5000 lbs	246.18 psi	unit incurred ~1/4" deflection
	5300 lbs	260.96 psi	unit incurred ~1/4" deflection, no further load accepted

load removed, unit recovered almost immediately

Respectfully submitted,

Scott R. Nelson
President

Douglas Diefenthal, PE