

Hadrian Tridi-Systems  
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**Dec. 8, 2003**

**Attn: Loran**

**Regarding: Strength of Tridipanel Wall System**

The panel receives its strength from the many nine gauge wires, which are welded from the face of the wire on one side thru the foam and then welded to the wire on the opposite side of the panel. This happens every 4 inches or 10mm. This actually is like placing 12 steel studs into each panel with the panel still having the foam core for insulation, for additional strength you may add re-bars before placing the shotcrete, this wall system is very strong, the testing shown on the wall panel with cement will hold up to over 200,000 pounds. I don't know the metric equivalent, this is why it does not damage easily, I hope this answers your question!

Sincerely,

**Rod Hadrian**  
Hadrian Tridi Systems

**TEST DATA**

**TEST #6**

WALLS TESTED: #15, #16, #17

SPECIMEN PARAMETERS

<u>Average Wall Height</u>	<u>Reinforcing Steel Gauge</u>	<u>Total Concrete Thickness</u>	<u>Insulation Thickness</u>	<u>Average Concrete Strength</u>
20'	11	3"	2-1/2	

TEST PARAMETERS

<u>Wall I.D.</u>	<u>Load at Failure</u>	<u>Failure Type</u>
15	141,000 lbs	Wall Top, Compression shear
16	174,000	"
17	105,000	"

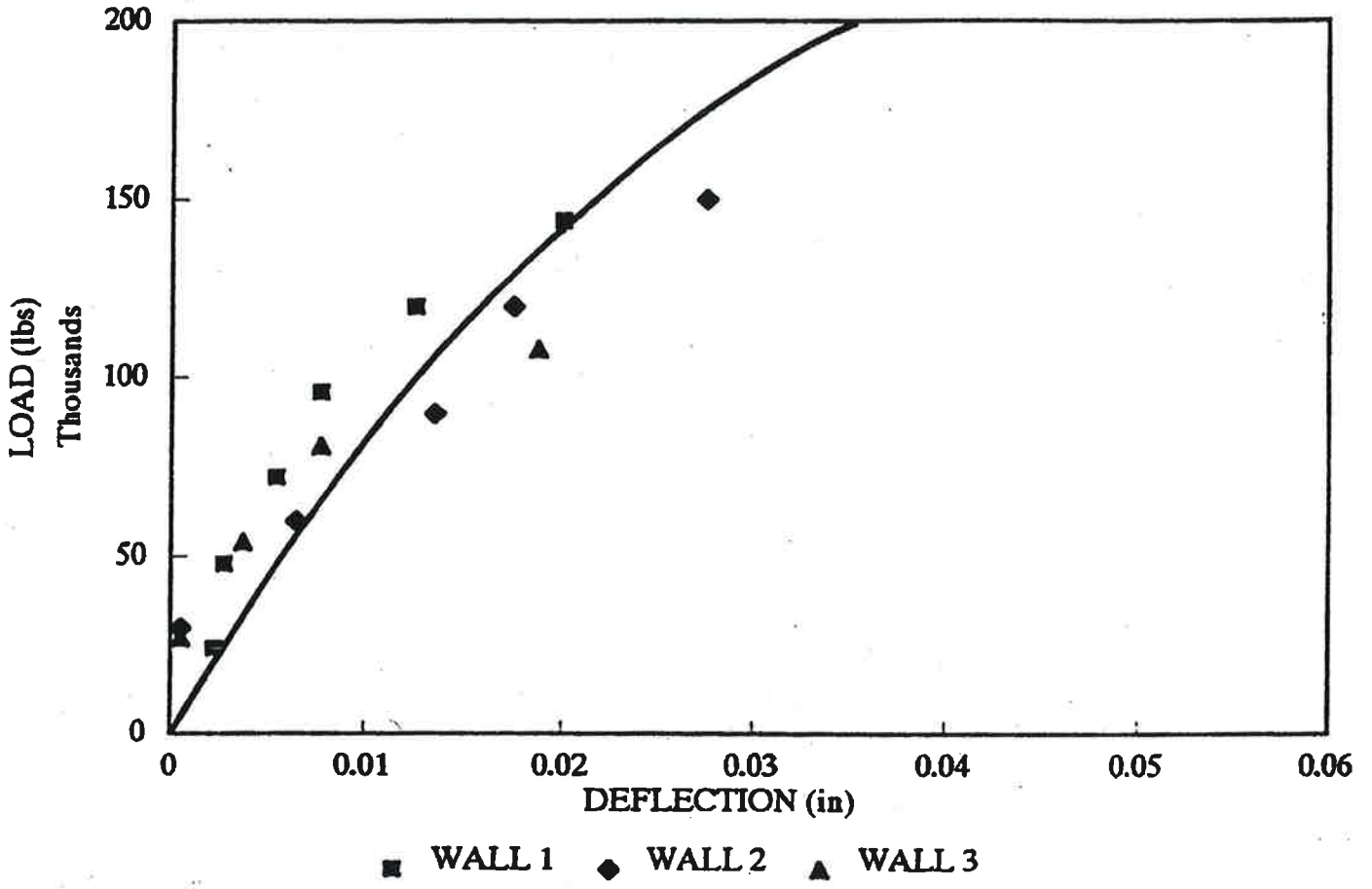
Average compression @ 100 kip load: 0.021 inches

Average bending deflection @ 100 kip load: 0.13 inches

Test #6

# ASTM E72 COMPRESSION TEST

20' WALL, 11 GAUGE, 3.0 INCHES CONCRETE



test # 7

**TEST DATA**

**TEST #7**

WALLS TESTED: #18, #19, #20

SPECIMEN PARAMETERS

<u>Average Wall Height</u>	<u>Reinforcing Steel Gauge</u>	<u>Total Concrete Thickness</u>	<u>Insulation Thickness</u>	<u>Average Concrete Strength</u>
20'	11	3"	3-1/2"	

TEST PARAMETERS

<u>Wall I.D.</u>	<u>Load at Failure</u>	<u>Failure Type</u>
18	201,000 lbs	Wall Top, Compression shear
19	174,000	"
20	120,000	"

Average compression @ 100 kip load: 0.016 inches

Average bending deflection @ 100 kip load: 0.10 inches

test # 2

# ASTM E72 COMPRESSION TEST

20" WALL, 11 GAUGE, 3.0 INCHES CONCRETE

