



STS CONSULTANTS

1035 Kepler Drive
Green Bay, Wisconsin 54311
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September 21, 2007

Mr. Peter Roehrig
General Manager
Valders Stone & Marble
318 West Washington Street
Valders, Wisconsin 54245

Re: Load Carrying Capacity of Various Natural Stone Pavers

Dear Pete:

We have completed our analysis of Valders Dove white, Gray, and Buff Stone Pavers, in 1-5/8" and 2" thicknesses. Modulus of rupture for these stone types was provided by Valders Stone & Marble, and a factor of safety of 8 was used on the modulus of rupture, per industry standards.

We have attached a chart that summarizes the live load capacity (uniform load or concentrated load) of each paver type. We have also attached the supporting Structural Calculations.

If you would like the chart in a different format, please let us know. We would be happy to revise it; our goal is to create a "flyer" that can be distributed to your customers.

Please contact us if you have any questions.

Sincerely,

STS

David A. Atkins, P.E., S.E.
Senior Project Engineer

DAA/tjs

Attachments:

Live Load Capacity
Structural Calculations



Valders Stone & Marble, Inc.
 Division of Eden Stone Company, Inc.
 318 West Washington Street
 Valders, Wisconsin 54245

ALLOWABLE LIVE LOAD ON NATURAL STONE PAVERS

Size of Paver	Type of Stone	Allowable Uniform LL	Allowable Concentrated LL
30" x 30" x 1-5/8"	Dove white	100 psf	300 lbs
30" x 30" x 1-5/8"	Gray	100 psf	300 lbs
26" x 26" x 1-5/8"	Buff	100 psf	200 lbs
36" x 36" x 2"	Dove white	100 psf	400 lbs
36" x 36" x 2"	Gray	100 psf	400 lbs
30" x 30" x 2"	Buff	100 psf	300 lbs





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Structural Calculations

PROJECT: Determination of Load Carrying Capacity of Natural Stone Pavers

LOCATION:

CLIENT: Valders Stone & Marble

ORIGINATED BY: David Atkins, PE

CHECKED BY: Scott Kahl, PE

DATE: September 10, 2007

NUMBER OF SHEETS:

STS PROJECT NUMBER: 200703889



David A. Atkins