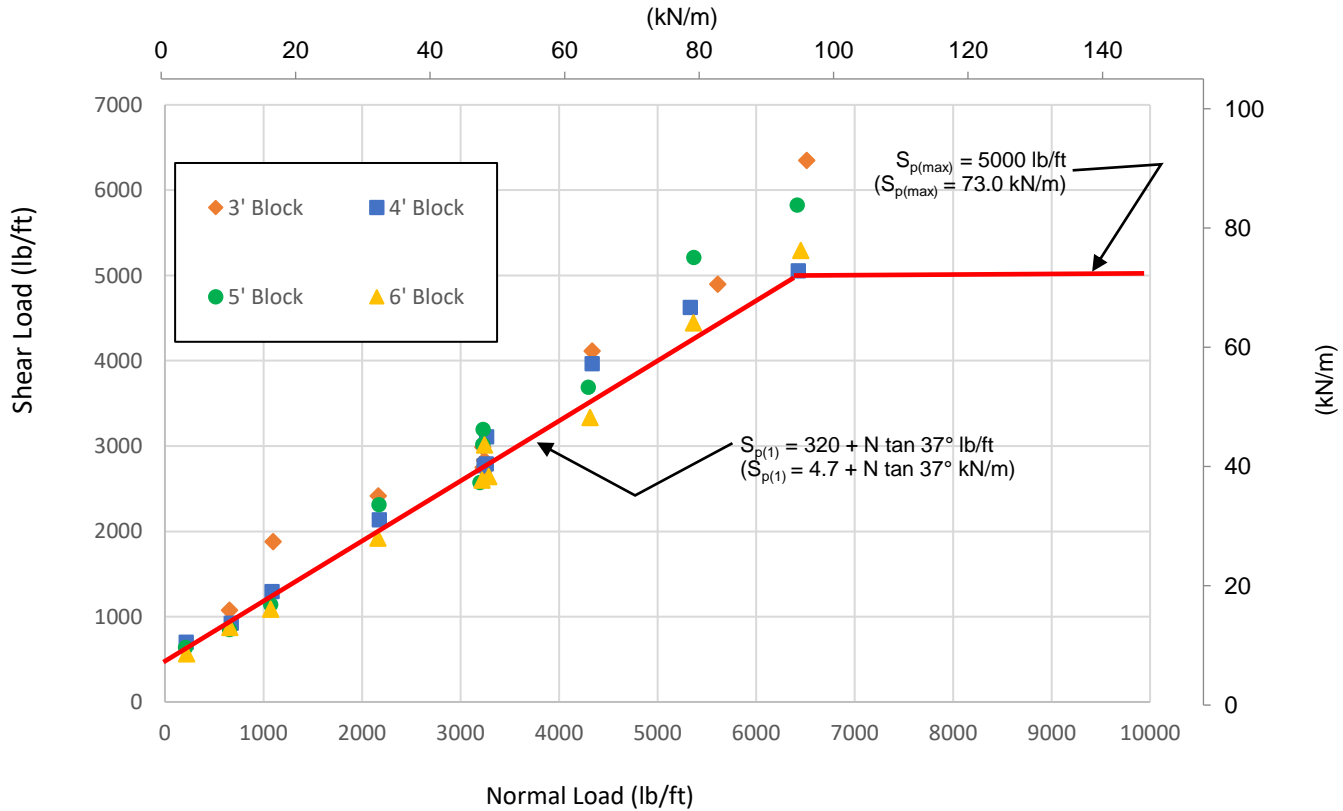


Block Type: **Grand Ledge Wall Block**
 Tested By: Aster Brands Test Lab, Charlevoix, MI USA

Test Method: ASTM D6916
 Test Dates: Dec. 8, 2020 to Jan. 21, 2021

INTERFACE SHEAR CAPACITY ENVELOPE



Peak Shear Envelope:^(a)

$$S_p = 320 \text{ lb/ft} + N \tan 37^\circ \leq 5,000 \text{ lb/ft}$$

$$(S_p = 4.7 \text{ kN/m} + N \tan 37^\circ \leq 73.0 \text{ kN/m})$$

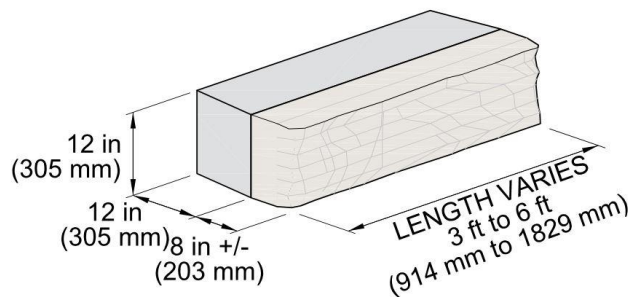
Inflection Points:

$$N_1 = 0 \text{ lb/ft (0 kN/m)}$$

$$N_2 = 6428 \text{ lb/ft (93.8 kN/m)}$$

$$S_1 = 320 \text{ lb/ft (4.7 kN/m)}$$

$$S_2 = 5,000 \text{ lb/ft (73.0 kN/m)}$$



The average compressive strength of concrete blocks as tested ranged from 3,327 psi (22.9 MPa) to 3,825 psi (26.4 MPa), with an average of 3,517 psi (24.2 MPa). The data reported represents the actual laboratory test results.

(a) The equations for peak shear envelope represent the slope of the trend line of the raw data, with no increase in shear capacity for normal load values above those tested. No further adjustments have been made. Appropriate factors of safety for design should be added.

The information contained in this report has been compiled by Aster Brands as a recommendation of peak interface shear capacity. It is accurate to the best of our knowledge as of the date of its issue. However, final determination of the suitability of any design information and the appropriateness of this data for a given design purpose is the sole responsibility of the user. No warranty of performance is expressed or implied by the publishing of these laboratory test results.