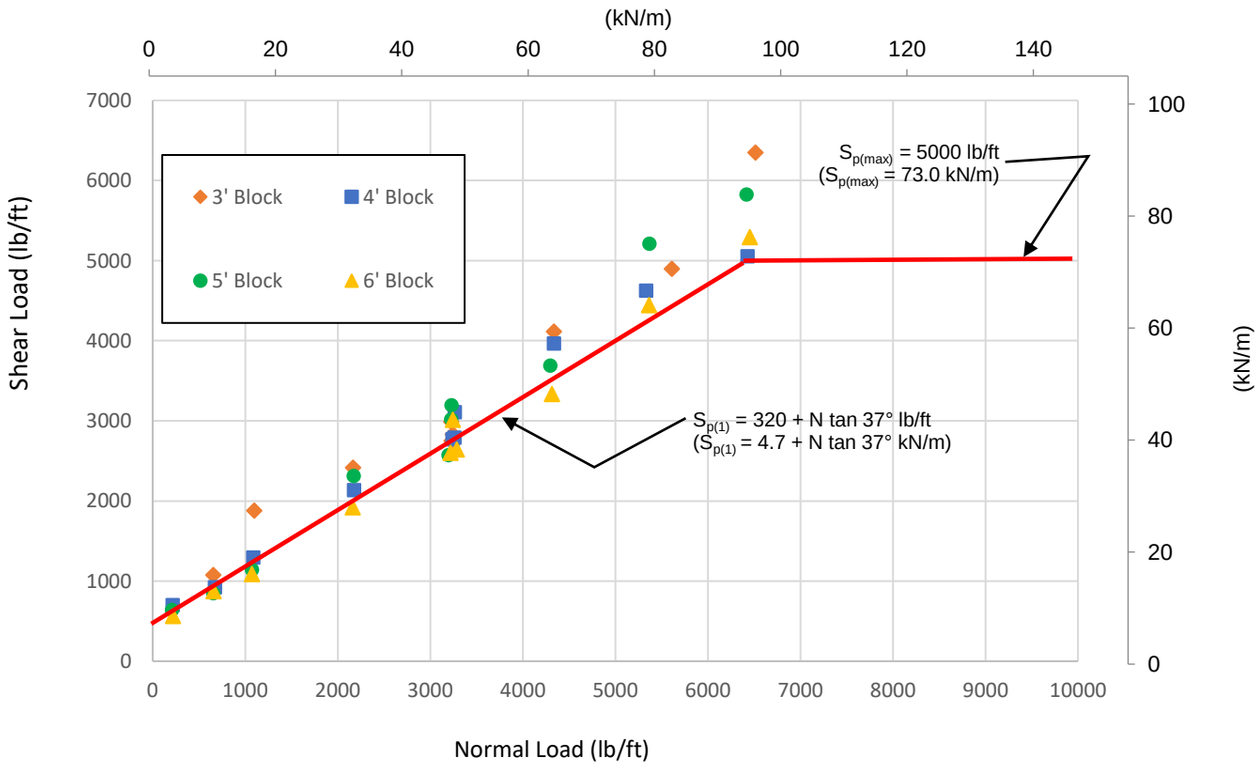
GRAND LEDGE WALL BLOCK
INTERFACE SHEAR DESIGN PARAMETERS

Block Type: **Grand Ledge Wall Block** Test Method: ASTM D6916

Tested By: Aster Brands Test Lab, Charlevoix, MI USA Test Dates: Dec. 8, 2020 to Jan. 21, 2021

INTERFACE SHEAR CAPACITY ENVELOPE



Peak Shear Envelope:[(a)]

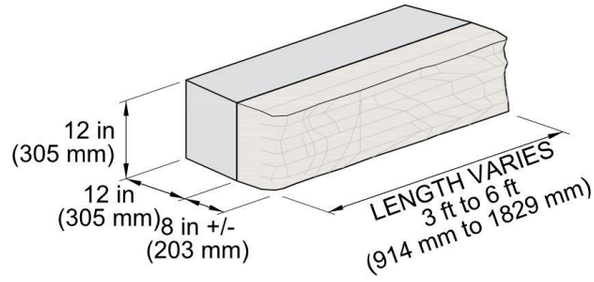
S_p = 320 lb/ft + N tan 37° ≤ 5,000 lb/ft

(S_p = 4.7 kN/m + N tan 37° ≤ 73.0 kN/m)

Inflection Points:

N_1 = 0 lb/ft (0 kN/m) **S_1 = 320 lb/ft (4.7 kN/m)**

N_2 = 6428 lb/ft (93.8 kN/m) **S_2 = 5,000 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.

Issue date: March 2, 2021