GRIDWORX EXTRUSION ANALYSIS

Gridworx Starter J, Intermediate T, and Top J extrusions have been analyzed for Wind, Dead, and Seismic loads. Gross bending stress and deflection have been found acceptable with the following parameters:

Design Dimensions of Stone Panels -
- Stone Thickness = 2.000"
- Course Height = 24"
- Panel Width = 48"
- Stone Density = 160 pcf

Wind Load Pressure = 60 psf (5.0 lb/in of Stone Panel width)
- (120 lb per Gridworx L Bracket)

Dead Load = 26.67 psf (4.444 lb/in of Stone Panel width)

Seismic Load = 13.186 psf (Seismic Body Load)

Actual job conditions are less critical than the above parameters as coursing height = 23 5/8" with Design Wind Load = +17.46 psf/-23.38 psf per the 2009 IBC. Therefore actual job conditions are OK by Comparison.
GRIDWORX
Cbeam R2
AWS
Multi-Diagrams

INTERMEDIATE T (NORMAL WINDLOAD = 60PSF)
By: CCO

Reaction Diagram

Deflection Diagram

Shear Diagram

Moment Diagram

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GRIDWORX
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AWS
Multi-Diagrams

INTERMEDIATE T (DEADLOAD = 26.67PSF)
By: CCO

Reaction Diagram

Deflection Diagram

Shear Diagram

Moment Diagram

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