

5 1/2" and 8" S.T.E.P.

GENERAL PANEL LOAD GUIDELINES



2012

Preface

This document is intended as a reference guide for design professionals and contractors who are interested in utilizing the ACCEL-E panel system.

The material presented in this document has been prepared for the general information of the reader. While the material is believed to be technically correct and in accordance with recognized good practice at the time of publication, it should not be used without first securing competent advice with respect to its suitability for any given application. SYNTHEON Inc. does not warrant or assume liability for the suitability of the material for any general or particular use.

Purpose

This reference guide has been prepared to illustrate examples of panel height limits for various loading conditions. The examples include:

1. Load Bearing and Non-Load Bearing
 - a. Single Story
 - b. Two Story
2. Two different deflection criteria for each loading condition:
 - a. L/360 (Stucco, EIFS)
 - b. L/600 (Brick, Stone)
3. Two different wind speeds:
 - a. 15 psf (approximately 80 to 90 mph basic wind speed)
 - b. 25 psf (approximately 90 to 110 mph basic wind speed)

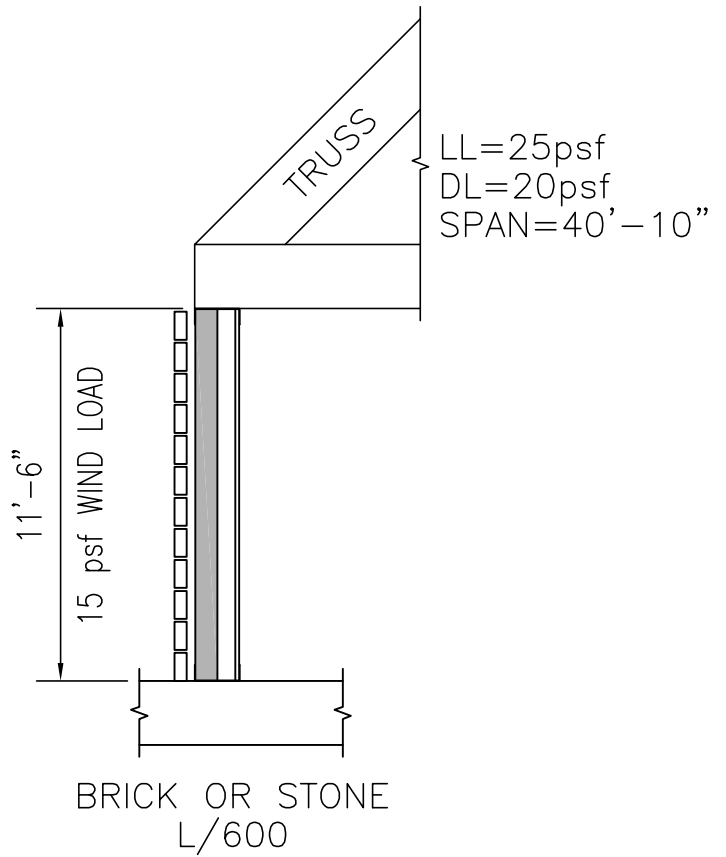
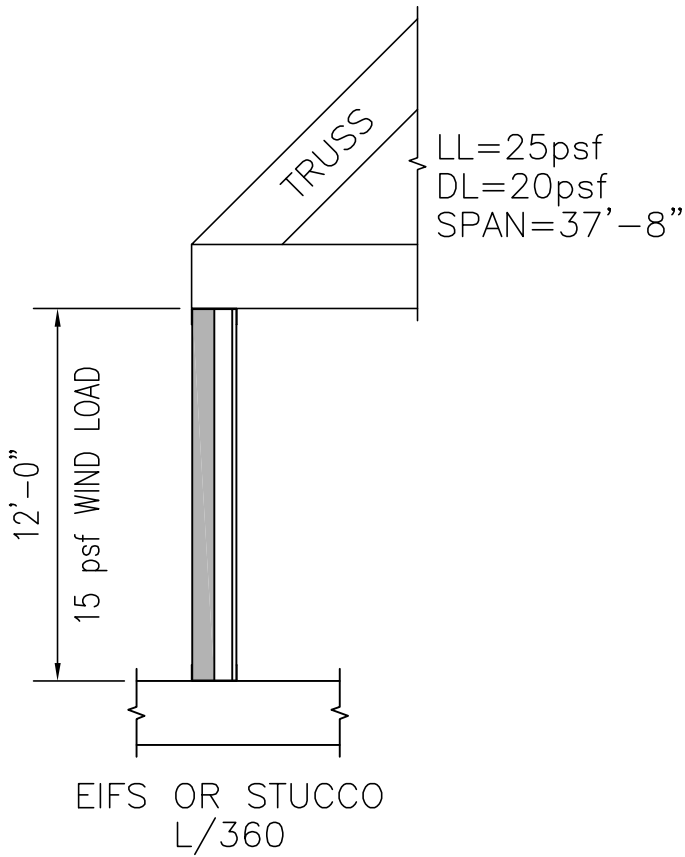
Assumed Dead Loads and Live Loads:

1. Roof: DL = 20 psf, LL = 25 psf
2. Floor: DL = 15 psf, LL = 40 psf

It is up to the design professional to determine the actual design loads for each individual project as required by all local and international codes. The height limitations indicated in this document were determined from the load tables included in the ACCEL-E S.T.E.P. Code Compliance Research Report #0121 as issued by Architectural Testing, Inc. dated 8/20/09.

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WIND PRESSURE = 15psf

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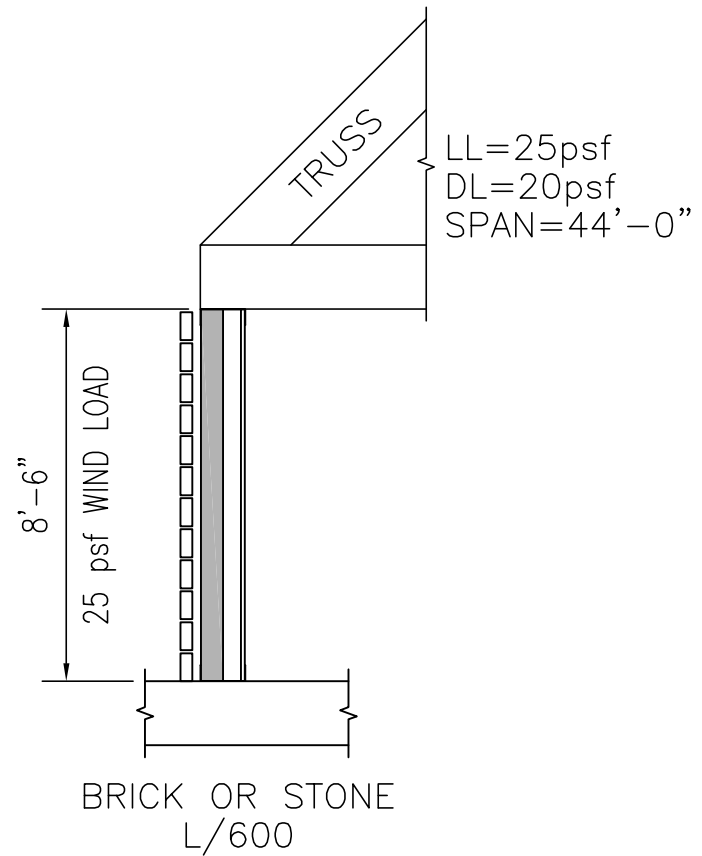
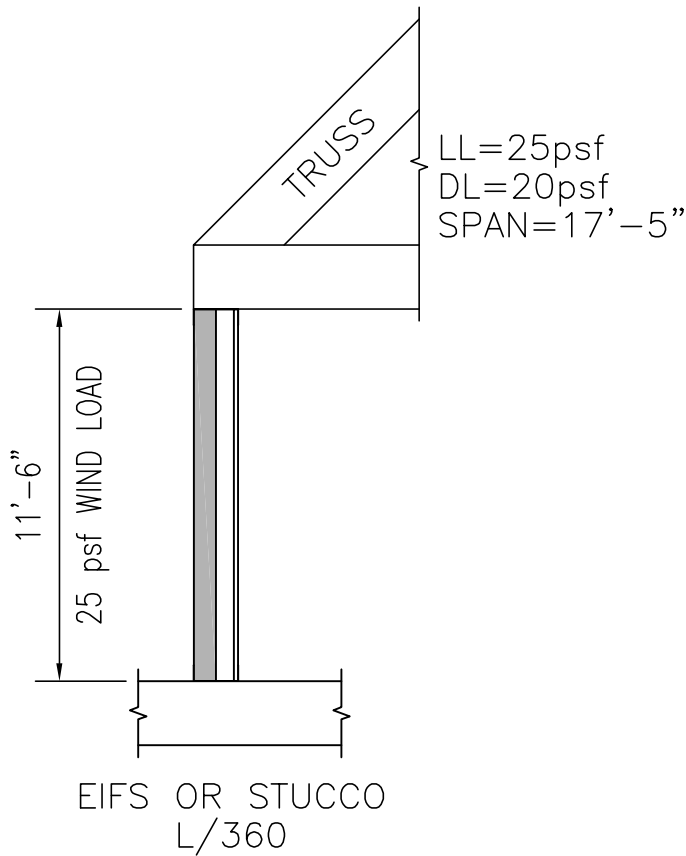
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5 1/2" REFERENCE
DESIGN HEIGHTS
EXTERIOR LOAD
BEARING

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WIND PRESSURE = 25psf

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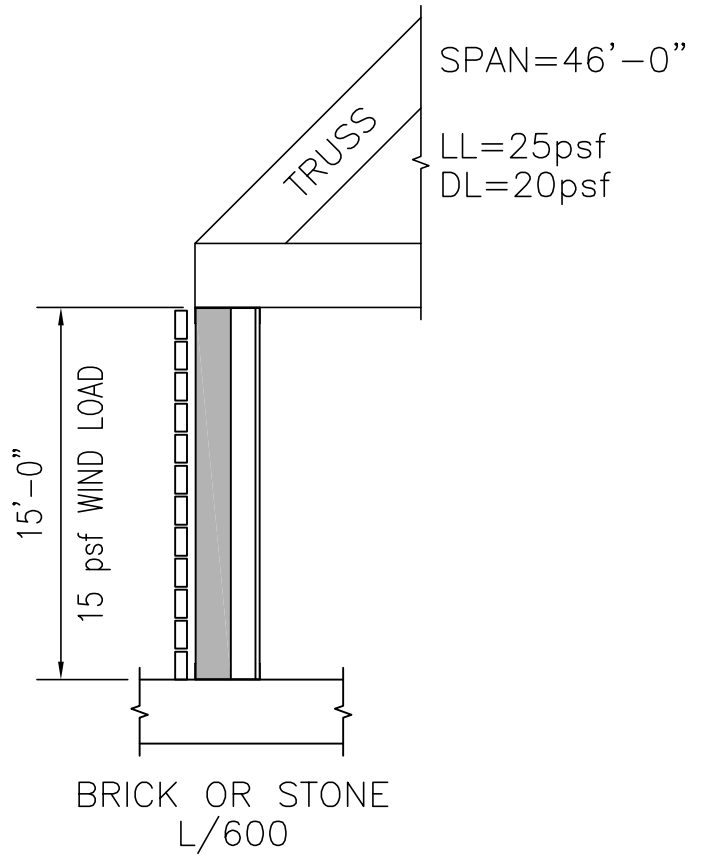
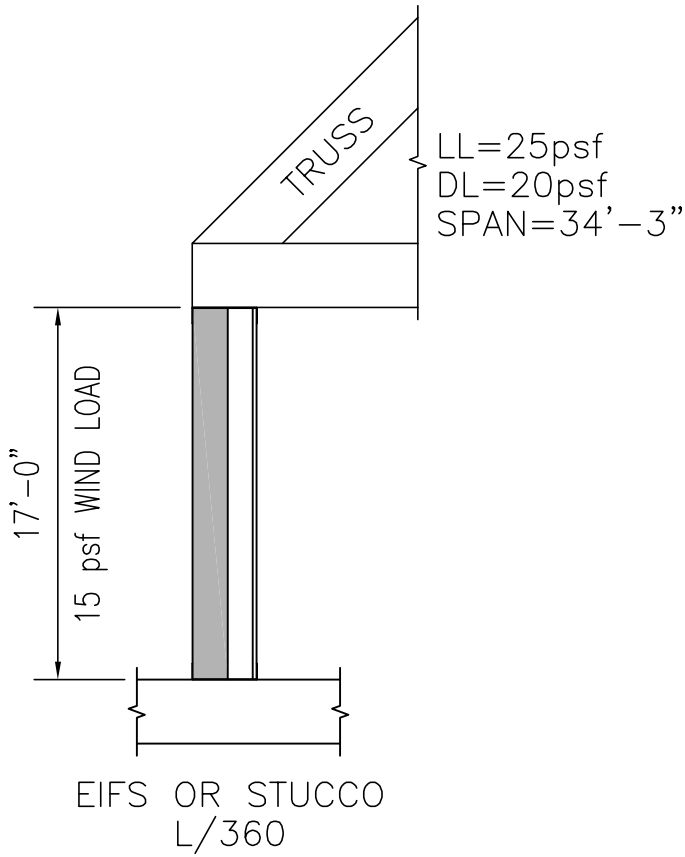
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WIND PRESSURE = 15psf

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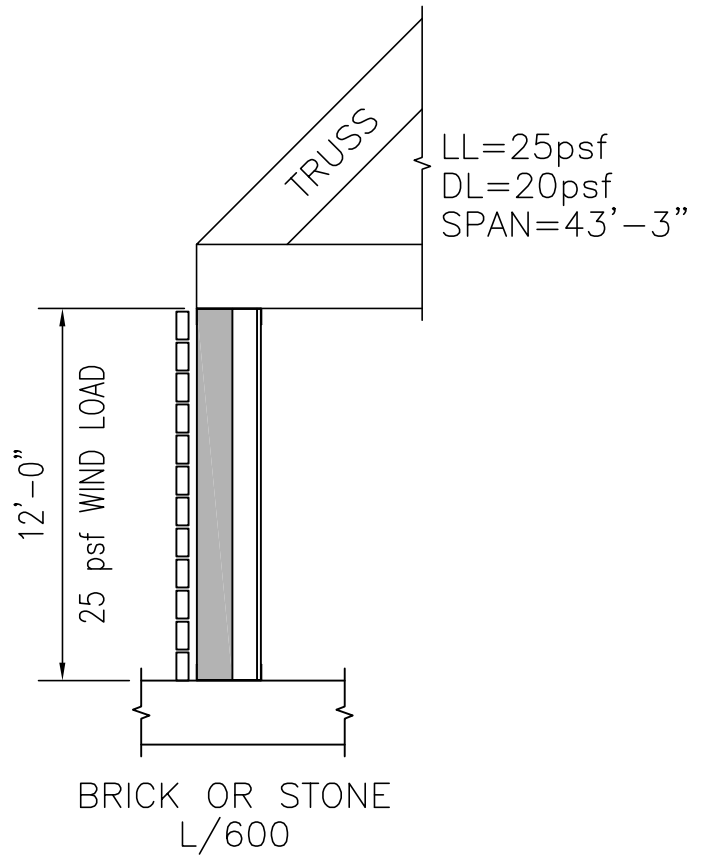
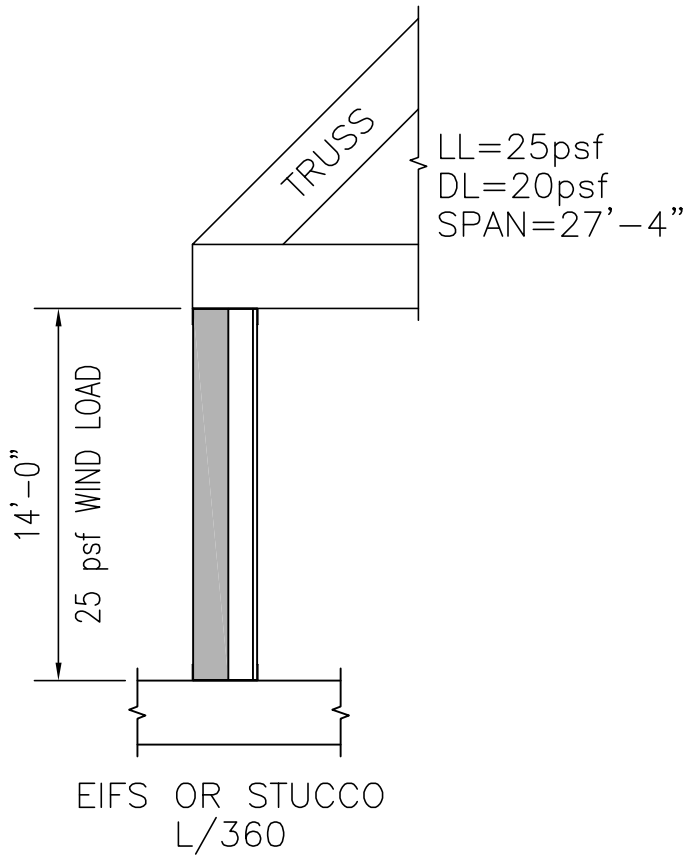
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WIND PRESSURE = 25psf

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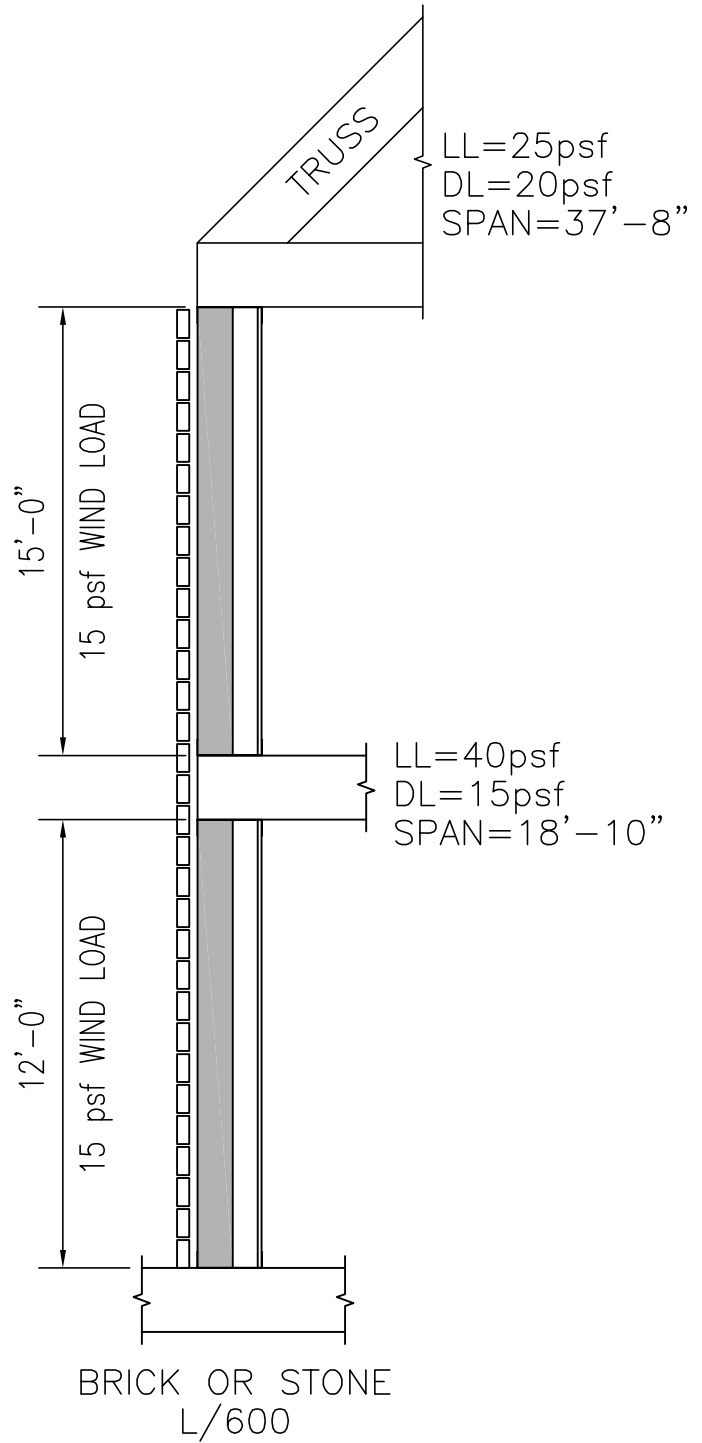
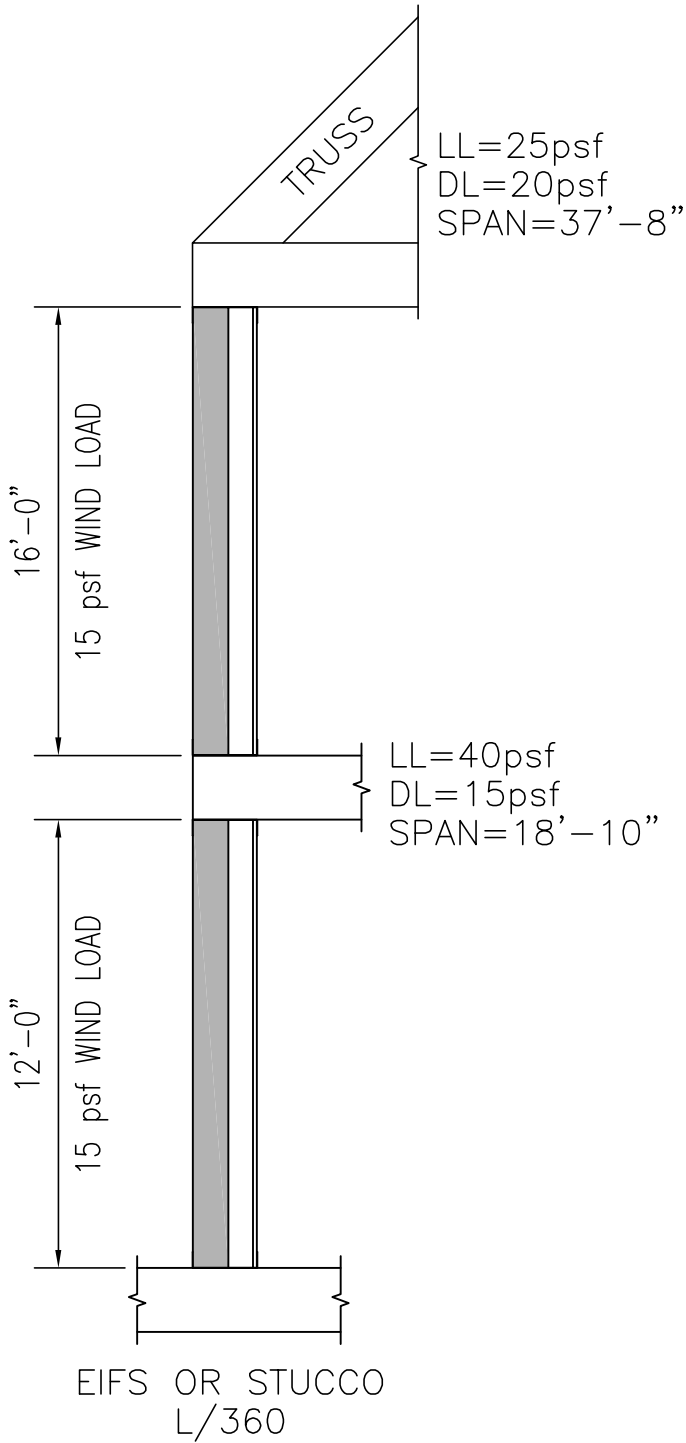
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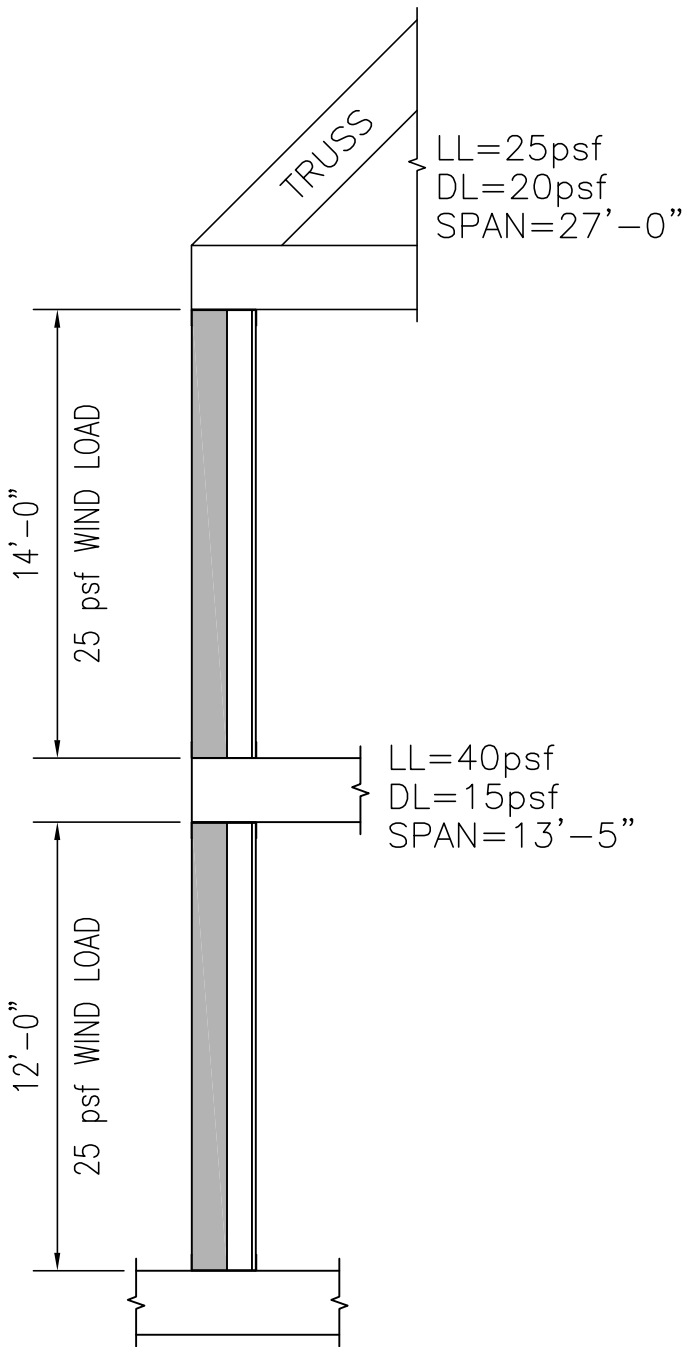
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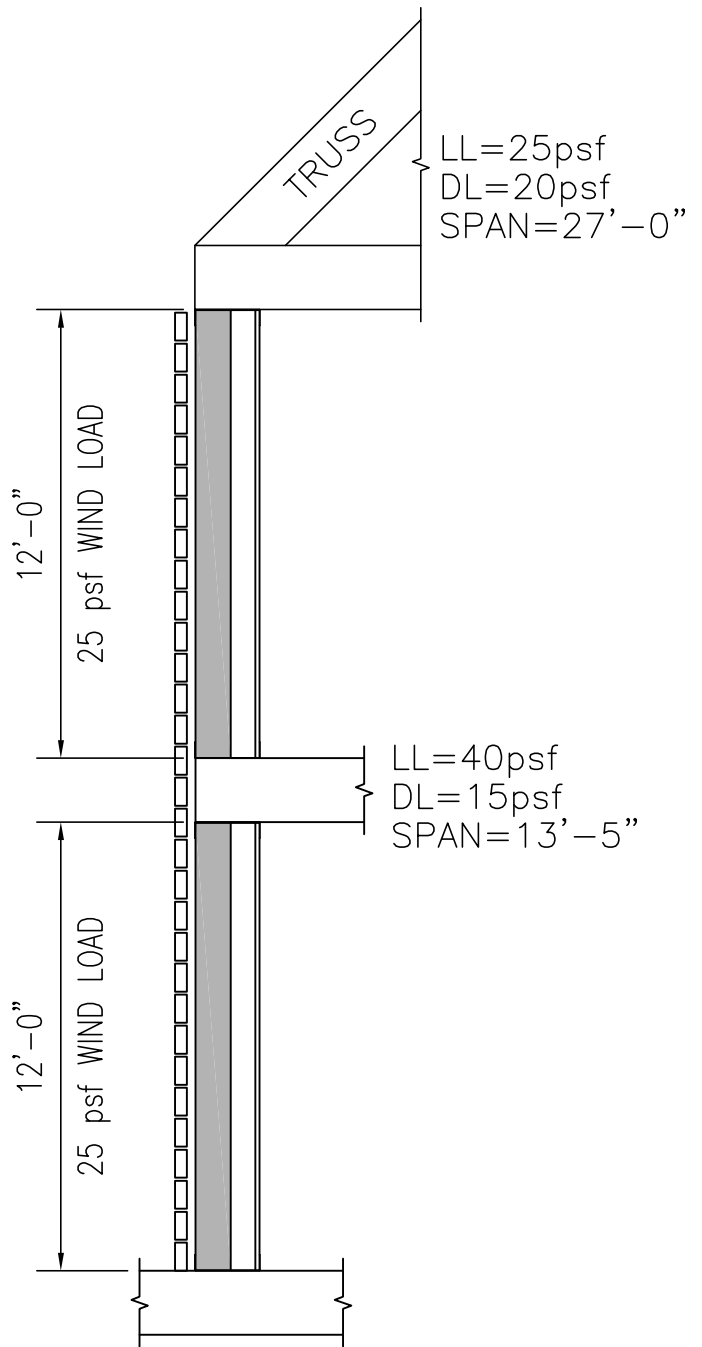
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PLG5



8" LOAD BEARING
EIFS OR STUCCO
EXTERIOR



8" LOAD BEARING
BRICK OR STONE
EXTERIOR

WIND PRESSURE = 25psf

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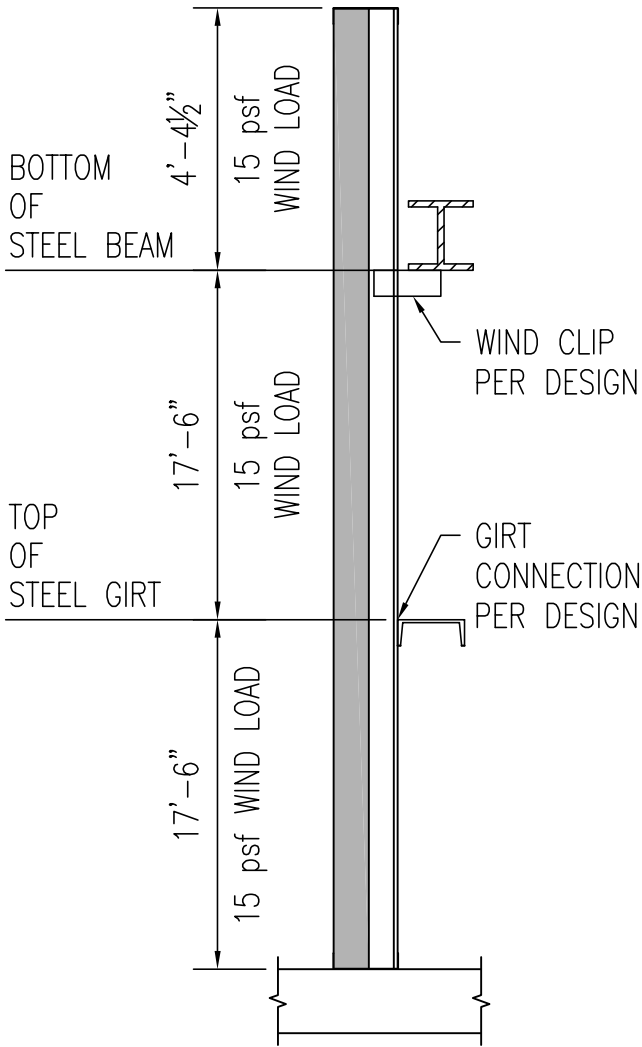
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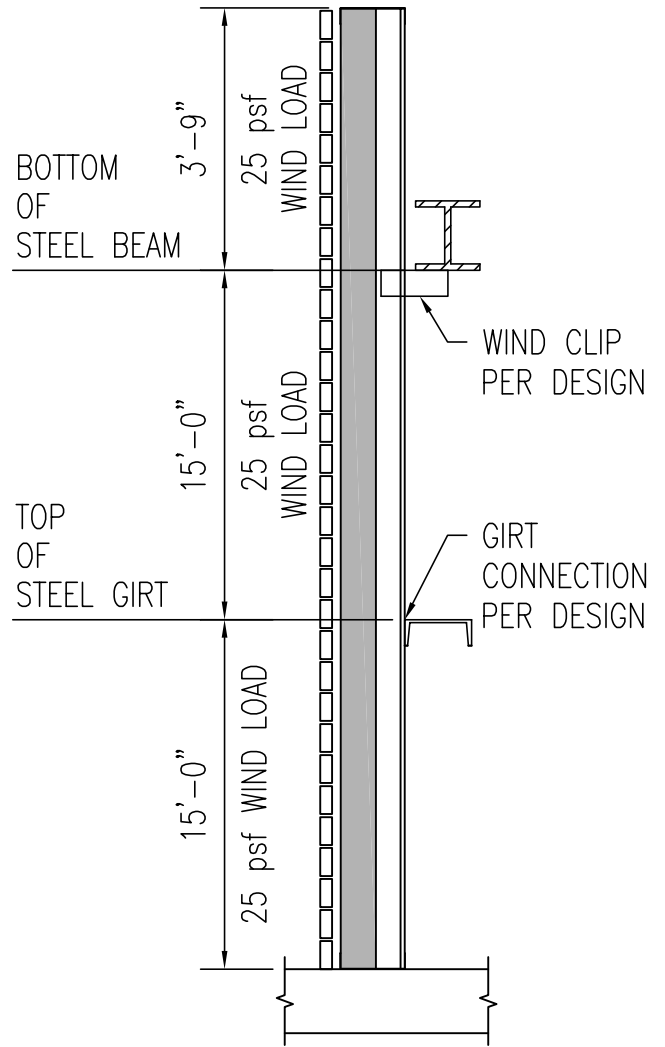
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PLG6



EIFS OR STUCCO
L/360



BRICK OR STONE
L/600

WIND PRESSURE = 15psf

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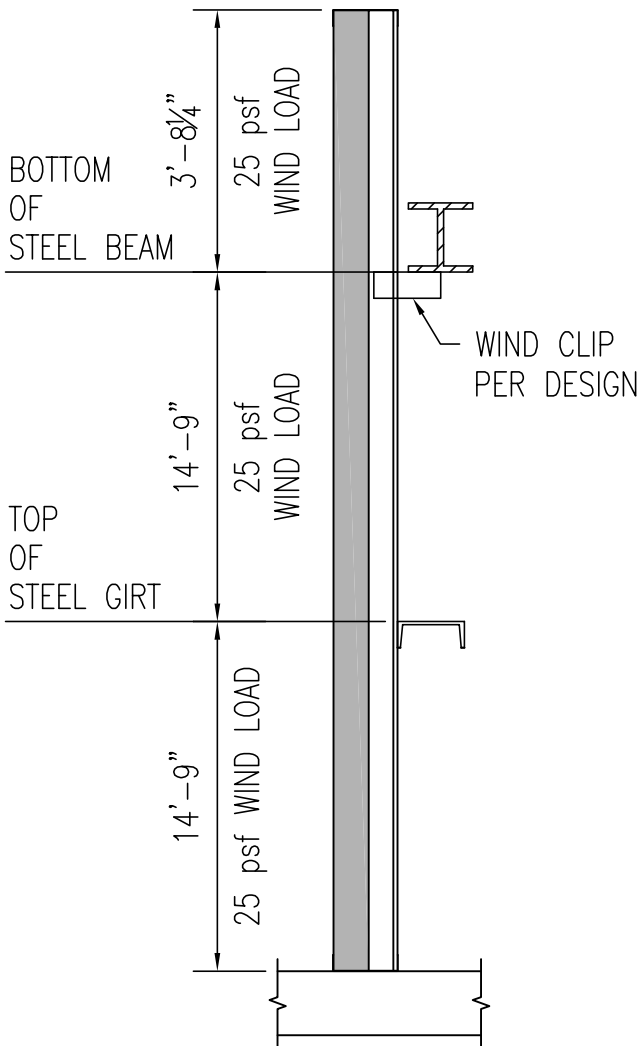
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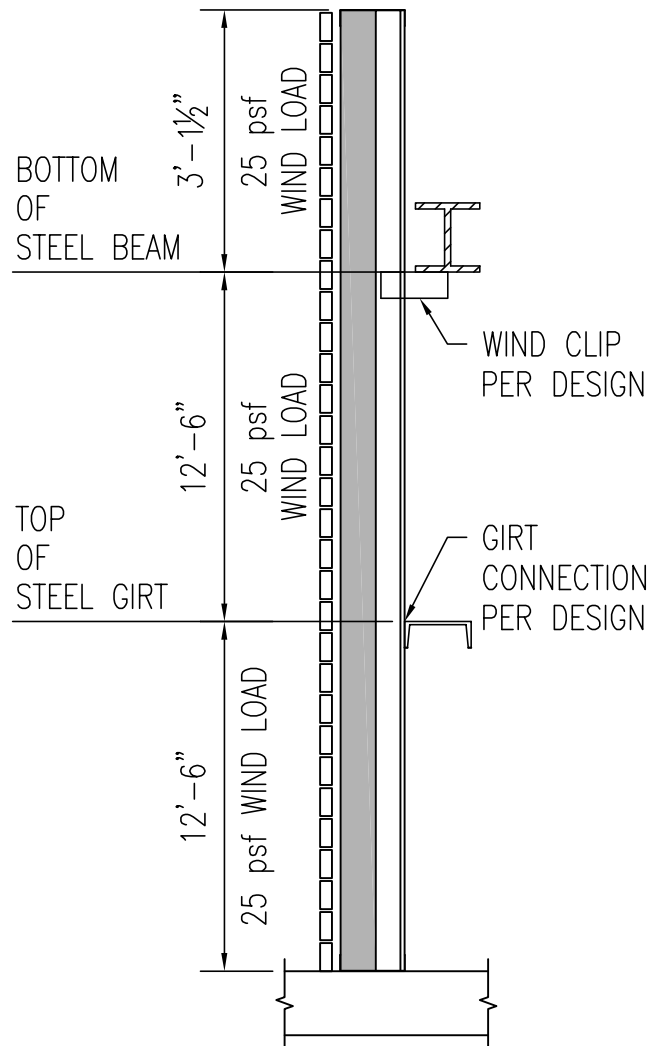
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PLG7



EIFS OR STUCCO
L/360



BRICK OR STONE
L/600

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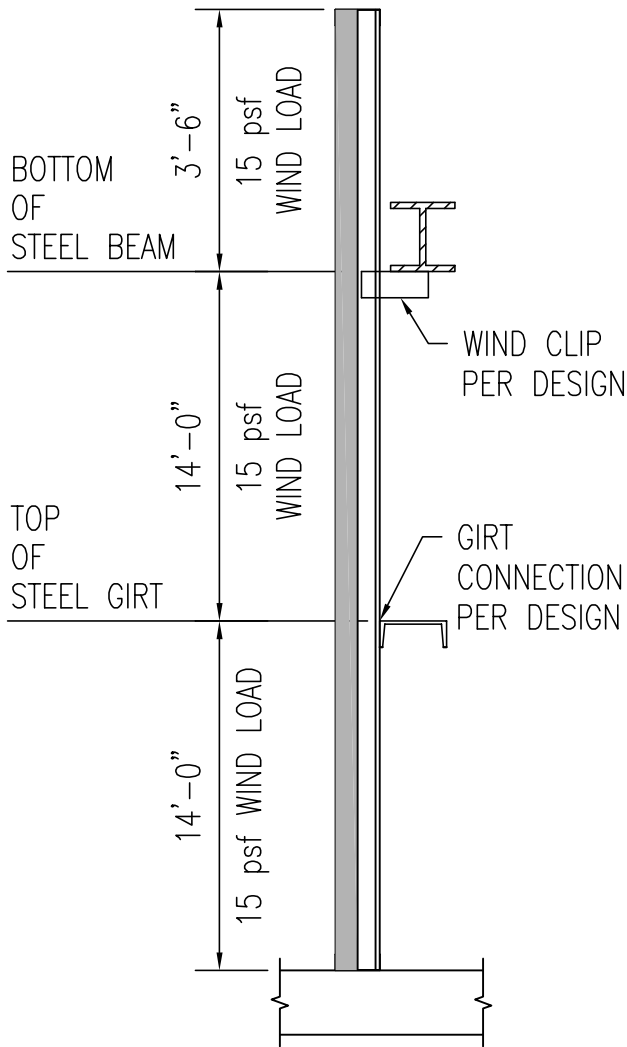
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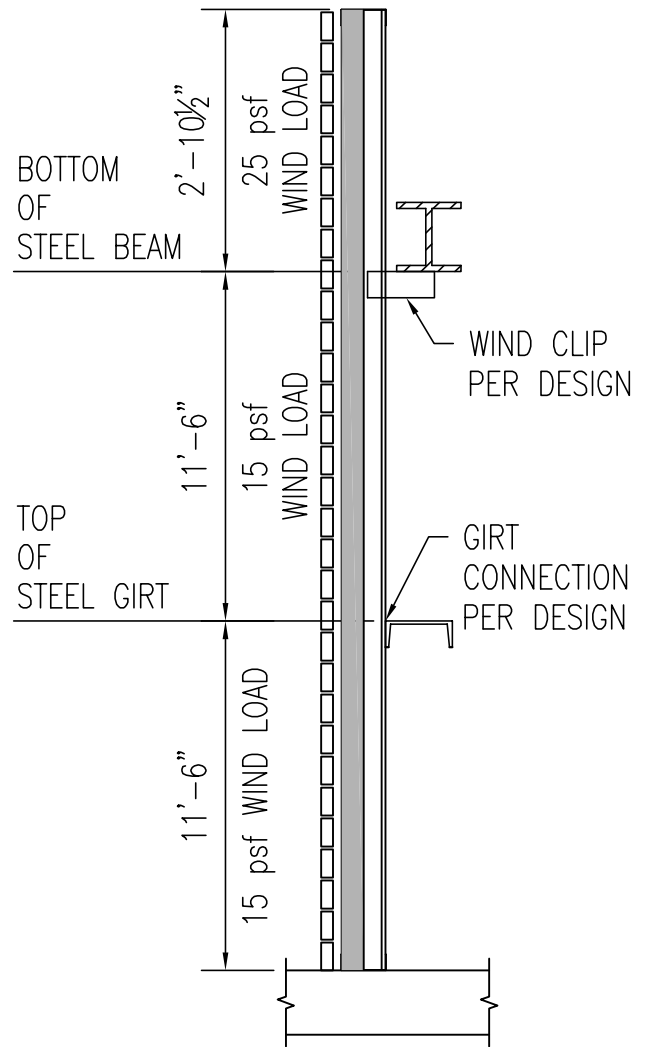
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EIFS OR STUCCO
L/360



BRICK OR STONE
L/600

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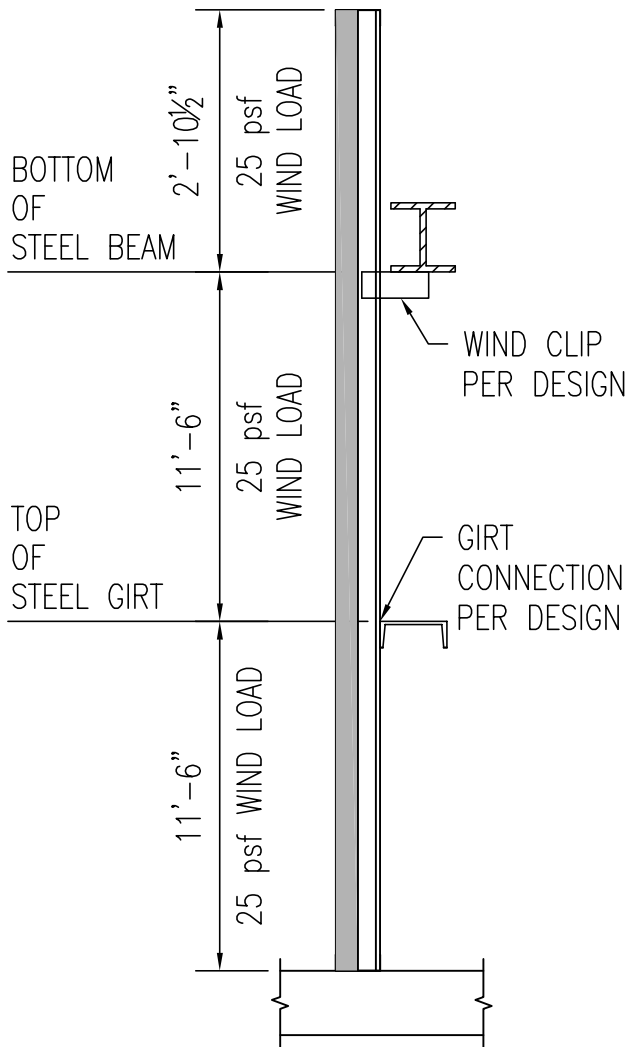
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BEARING

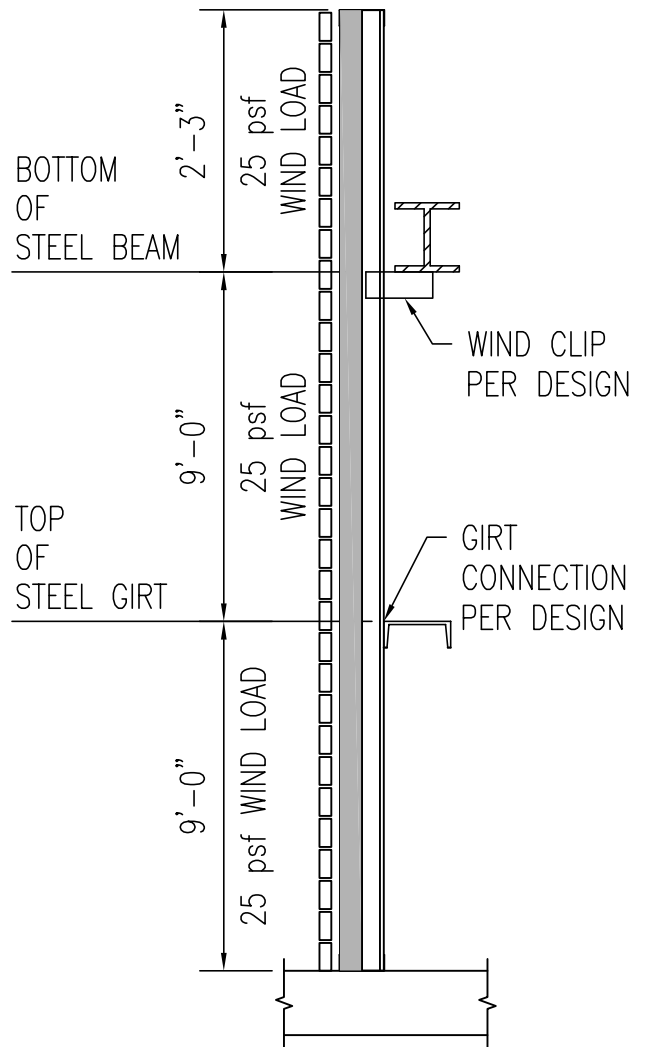
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EIFS OR STUCCO
L/360



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L/600

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