5 ½” 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.*
Table of Contents

Preface and Purpose

Exterior: Load Bearing

- 5 ½” Panel - Single Story
  - 15 psf Wind Load – L/360 & L/600
  - 25 psf Wind Load – L/360 & L/600
- 8” Panel - Single Story
  - 15 psf Wind Load – L/360 & L/600
  - 25 psf Wind Load – L/360 & L/600
- 8” Panel - Two Story
  - 15 psf Wind Load – L/360 & L/600
  - 25 psf Wind Load – L/360 & L/600

Exterior: Non-Load Bearing

- 5 ½” Panel
  - 15 psf Wind Load – L/360 & L/600
  - 25 psf Wind Load – L/360 & L/600
- 8” Panel
  - 15 psf Wind Load – L/360 & L/600
  - 25 psf Wind Load – L/360 & L/600
WIND PRESSURE = 15 psf

LL = 25 psf
DL = 20 psf
SPAN = 37’-8”

TRUSS

15 psf WIND LOAD
12' - 0”

EIFS OR STUCCO
L/360

TRUSS

15 psf WIND LOAD
11' - 6”

BRICK OR STONE
L/600

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WIND PRESSURE = 25psf

TRUSS

LL=25psf
DL=20psf
SPAN=17'-5"

11'-6"
25 psf WIND LOAD

EIFS OR STUCCO
L/360

TRUSS

LL=25psf
DL=20psf
SPAN=44'-0"

8'-6"
25 psf WIND LOAD

BRICK OR STONE
L/600
WIND PRESSURE = 15 psf

LL = 25 psf
DL = 20 psf
SPAN = 34′-3″

SPAN = 46′-0″
LL = 25 psf
DL = 20 psf

EIFS OR STUCCO
L/360

BRICK OR STONE
L/600

15 psf WIND LOAD
17′-0″

15 psf WIND LOAD
15′-0″
WIND PRESSURE = 25psf
WIND PRESSURE = 15 psf
8" LOAD BEARING
EIFS OR STUCCO EXTERIOR

14'-0"
25 psf WIND LOAD

12'-0"
25 psf WIND LOAD

LL=25psf
DL=20psf
SPAN=27'-0"

LL=40psf
DL=15psf
SPAN=13'-5"

8" LOAD BEARING
BRICK OR STONE EXTERIOR

12'-0"
25 psf WIND LOAD

12'-0"
25 psf WIND LOAD

LL=25psf
DL=20psf
SPAN=27'-0"

LL=40psf
DL=15psf
SPAN=13'-5"

WIND PRESSURE = 25psf
WIND PRESSURE = 15psf
WIND PRESSURE = 25 psf

EIFS OR STUCCO
L/360

BRICK OR STONE
L/600
WIND PRESSURE = 15 psf

- Bottom of Steel Beam: 3'-6" with 15 psf wind load
- Top of Steel Girt: 14'-0" with 15 psf wind load
- Girt Connection Per Design
- Wind Clip Per Design

EIFS OR STUCCO L/360
BRICK OR STONE L/600

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Revisions

<table>
<thead>
<tr>
<th>REV</th>
<th>Description</th>
<th>DATE</th>
</tr>
</thead>
</table>

Project Information

JOB# 5 1/2" REFERENCE DESIGN HEIGHTS EXTERIOR NON-LOAD BEARING

Sheet Information

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PLG9
WIND PRESSURE = 25psf