



DEGENKOLB ENGINEERS

300 South Grand Ave. #1115, Los Angeles, CA 90071

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www.degenkolb.com

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Office Of Statewide Health Planning And Development
ANCHORAGE PRE-APPROVAL

OPA - 2150 - 07

PRODUCT MANUFACTURER: PETER PEPPER PRODUCTS

PRODUCT NAME/TYPE/MODEL: GALLERIE RACKS [Models 4041, 4042, 4043, 4044]

GENERAL NOTES:

1. FORCES ARE DETERMINED PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 11, 12 AND 13 USING THE FOLLOWING EQUATION (EQ. 13.3-2):

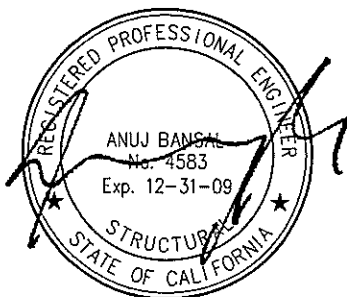
$F_p = 1.6 S_Ds I_p W_p = 4.62 W_p$
 $F_v = 0.2 S_Ds W_p = 0.39 W_p$ WHERE,

$S_Ds = 2/3 F_a S_s = 1.927g$ (EQ. 11.4-3)

- I_p 1.50
- F_a 1.00
- S_s 2.89 g
- W_p MAXIMUM OPERATING WEIGHT

NOTE THAT THE FORCE LEVEL IS FOR STRENGTH DESIGN

2. THIS PRE-APPROVAL CONFORMS TO THE 2007 CALIFORNIA BUILDING CODE.
3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA.
4. THE DETAILS MAY BE USED FOR ANY LEVEL OF THE BUILDING WHERE THE ABOVE STATED PRODUCT IS LOCATED.



APPROVED
Fixed Equipment Anchorage
Office of Statewide Health Planning and Development
OPA-2150-07
Pre-approval Program Manager
Anthony R. Pike
(916) 440-8470
George Zhu July 8, 2009
Reviewed By: George Zhu Date



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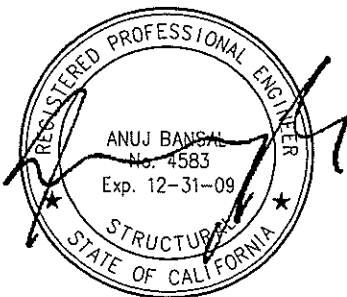
PRODUCT NAME/TYPE/MODEL: GALLERIE RACKS [Models 4041, 4042, 4043, 4044]

GENERAL NOTES (CONT'D):

- 5. ALL LOADS SHOWN ON THE CALCULATIONS ARE BASED ON STRENGTH DESIGN.
- 6. THIS UNIT DOES NOT REQUIRE SEISMIC CERTIFICATION.
- 7. TYPICAL DIMENSIONAL TOLERANCE IS $\pm \frac{1}{4}$ ".

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD:

- 1. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS.
- 2. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY WALL OPENINGS.
- 3. VERIFY THE INSTALLATION IS IN CONFORMANCE WITH THE 2007 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL. VERIFY THAT THE EQUIPMENT'S ACTUAL WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN IN THIS PRE-APPROVAL.
- 4. VERIFY THAT THE CONCRETE WALL / CMU WALL WHICH THE UNIT IS ANCHORED IS NOT CRACKED.
- 5. DESIGN ANY SUPPLEMENTARY MEMBERS AND THEIR ATTACHMENTS WHICH THE UNIT IS ANCHORED TO. VERIFY THE ADEQUACY OF ANY EXISTING MEMBERS AND THEIR ATTACHMENTS WHICH THE UNIT IS ANCHORED TO, FOR THE FORCES EXERTED ON THEM BY THE UNIT IN ADDITION TO ALL OTHER LOADS AND FORCES.



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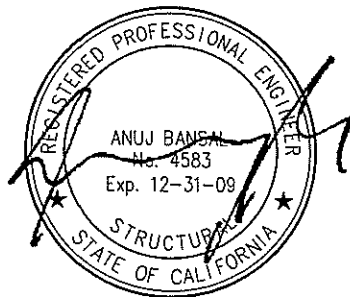
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PRODUCT NAME/TYPE/MODEL: GALLERIE RACKS [Models 4041, 4042, 4043, 4044]

MATERIAL SPECIFIC NOTES FOR SUPPORTING STRUCTURAL MEMBERS:

1. LIGHT GAGE METAL:
MINIMUM GAGE: 20 GA.
MINIMUM YIELD STRENGTH (fy) = 33 KSI
2. WOOD:
MINIMUM GRADE: DOUGLAS FIR NO.3 OR BETTER
MINIMUM SPECIFIC GRAVITY (G) = 0.46
3. CONCRETE:
MINIMUM UNIT WEIGHT = 110 pcf (LIGHT WEIGHT CONCRETE)
MINIMUM UNIT WEIGHT = 145 pcf (NORMAL WEIGHT CONCRETE)
MINIMUM COMPRESSIVE STRENGTH (fc) = 2000 PSI
4. MASONRY:
MINIMUM COMPRESSIVE STRENGTH (fm) = 1500 PSI
5. SEE 2007 CALIFORNIA BUILDING CODE FOR MORE INFORMATION AND OTHER REQUIREMENTS.
6. IF THE WOOD MATERIAL USED HAS A LOWER QUALITY THAN WHAT IS SPECIFIED ABOVE, SEOR SHALL EVALUATE THE BACKING SUPPORT DESIGN.



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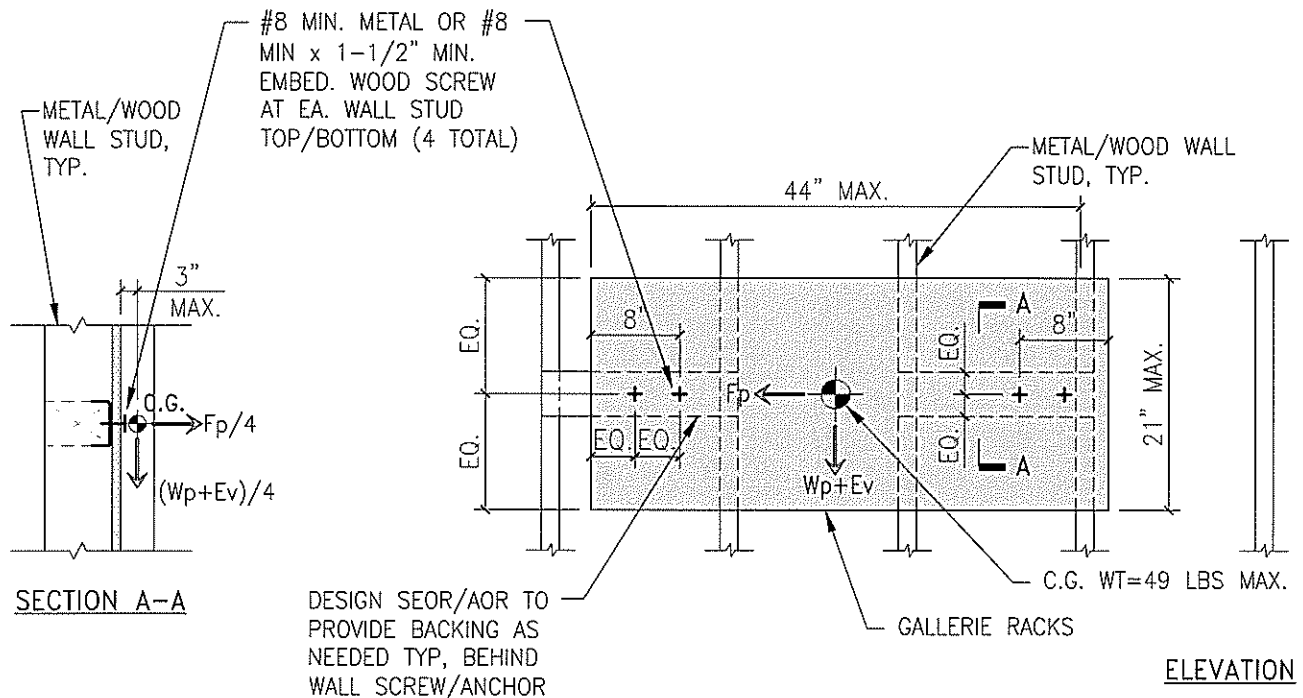
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PETER PEPPER PRODUCTS

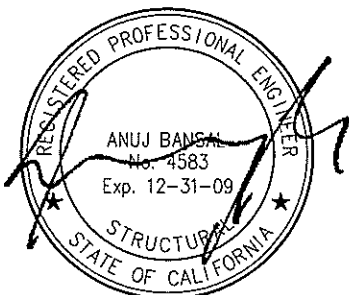
GALLERIE RACKS
 MODELS 4041, 4042, 4043, 4044

Designed By TY
 Project # A8621021.00
 Date 10/24/2008

MODEL 4041 - METAL/WOOD STUDWALL ATTACHMENT



MAXIMUM DEMANDS AT WALL SCREWS	
CASE 1: EQ FORCE PERPEND. TO WALL	
TENSION = 62.2 LBS	SHEAR = 19.5 LBS
CASE 2: EQ FORCE PARALLEL TO WALL	
TENSION = 7.7 LBS	SHEAR = 59.9 LBS



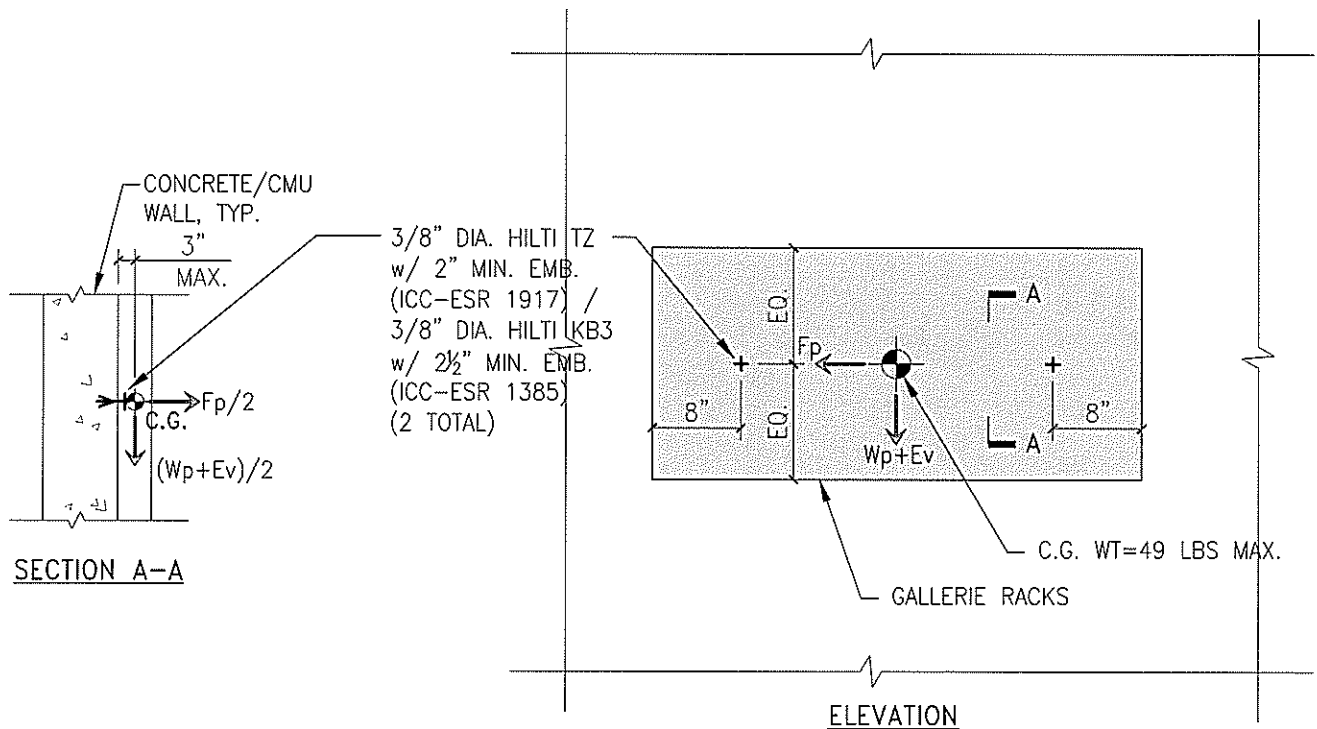
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George Zhu July 8, 2009
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PETER PEPPER PRODUCTS GALLERIE RACKS MODELS 4041, 4042, 4043, 4044	Designed By	TY
	Project #	A8621021.00
	Date	10/24/2008

MODEL 4041 - CONCRETE/CMU WALL ATTACHMENT

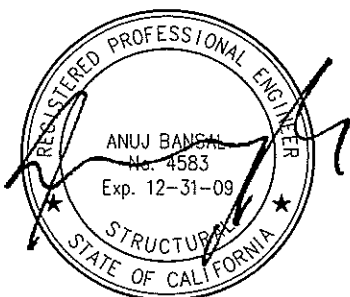


MAXIMUM DEMANDS AT WALL ANCHORS

CASE 1: EQ FORCE PERPEND. TO WALL	
TENSION = 161.6 LBS	SHEAR = 50.6 LBS
CASE 2: EQ FORCE PARALLEL TO WALL	
TENSION = 20.1 LBS	SHEAR = 155.6 LBS

NOTES:

1. SEE PAGE 4 FOR INFO NOT SHOWN



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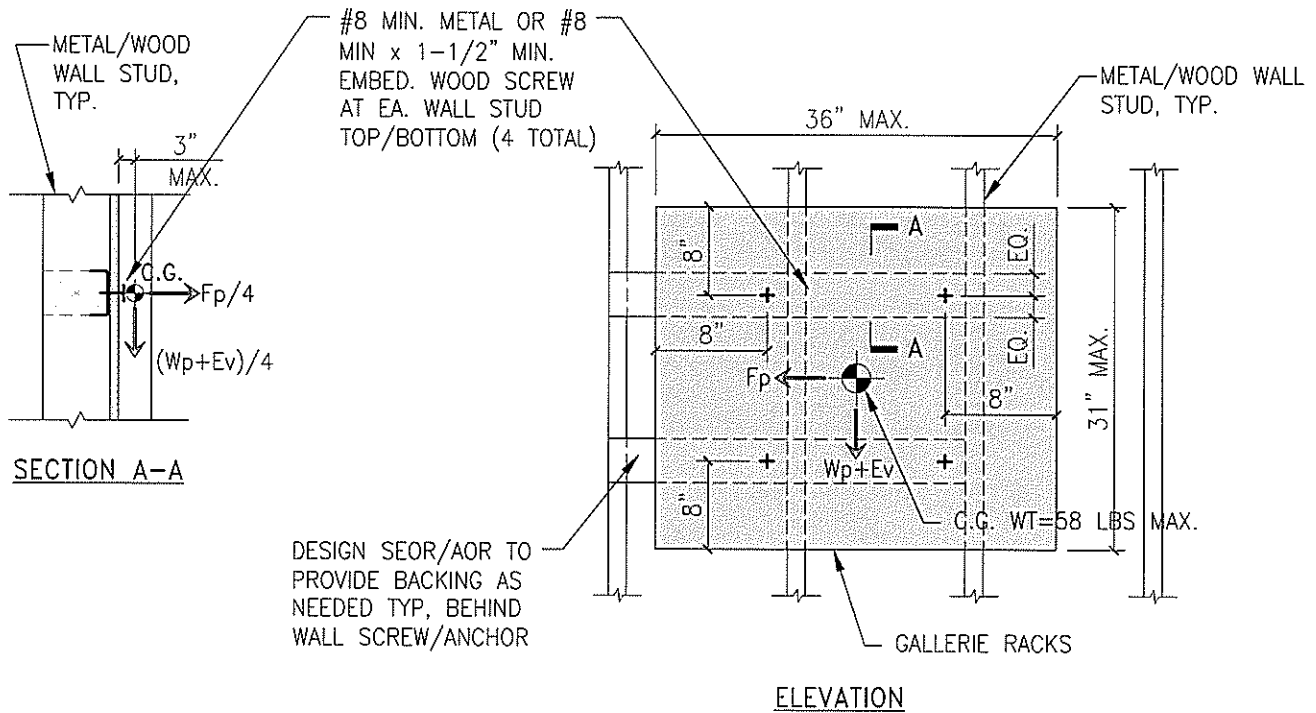
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PETER PEPPER PRODUCTS

**GALLERIE RACKS
 MODELS 4041, 4042, 4043, 4044**

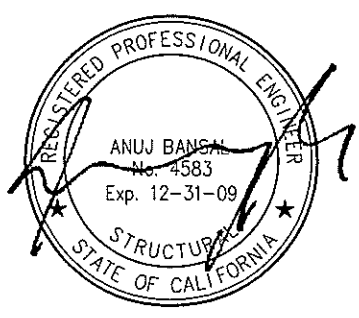
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MODEL 4042 - METAL/WOOD STUDWALL ATTACHMENT



MAXIMUM DEMANDS AT WALL SCREWS

CASE 1: EQ FORCE PERPEND. TO WALL	
TENSION = 76.2 LBS	SHEAR = 23.1 LBS
CASE 2: EQ FORCE PARALLEL TO WALL	
TENSION = 29.3 LBS	SHEAR = 70.8 LBS



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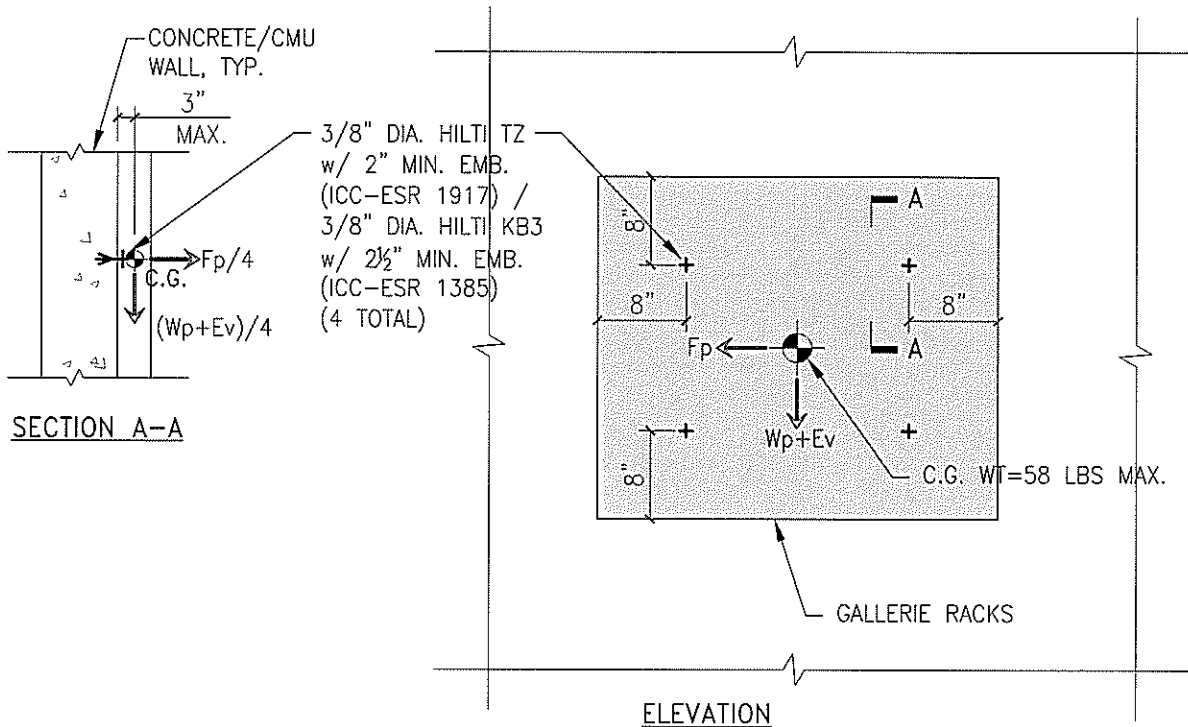
OPA-2150-07

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George Zhu July 8, 2009
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PETER PEPPER PRODUCTS	Designed By	TY
	Project #	A8621021.00
GALLERIE RACKS MODELS 4041, 4042, 4043, 4044	Date	10/24/2008

MODEL 4042 - CONCRETE/CMU WALL ATTACHMENT

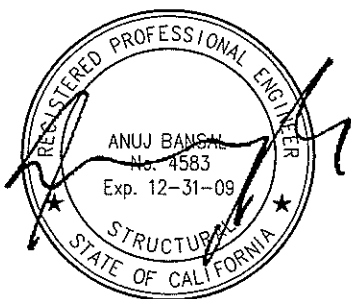


MAXIMUM DEMANDS AT WALL ANCHORS

CASE 1: EQ FORCE PERPEND. TO WALL	
TENSION = 99.1 LBS	SHEAR = 30.0 LBS
CASE 2: EQ FORCE PARALLEL TO WALL	
TENSION = 38.1 LBS	SHEAR = 92.1 LBS

NOTES:

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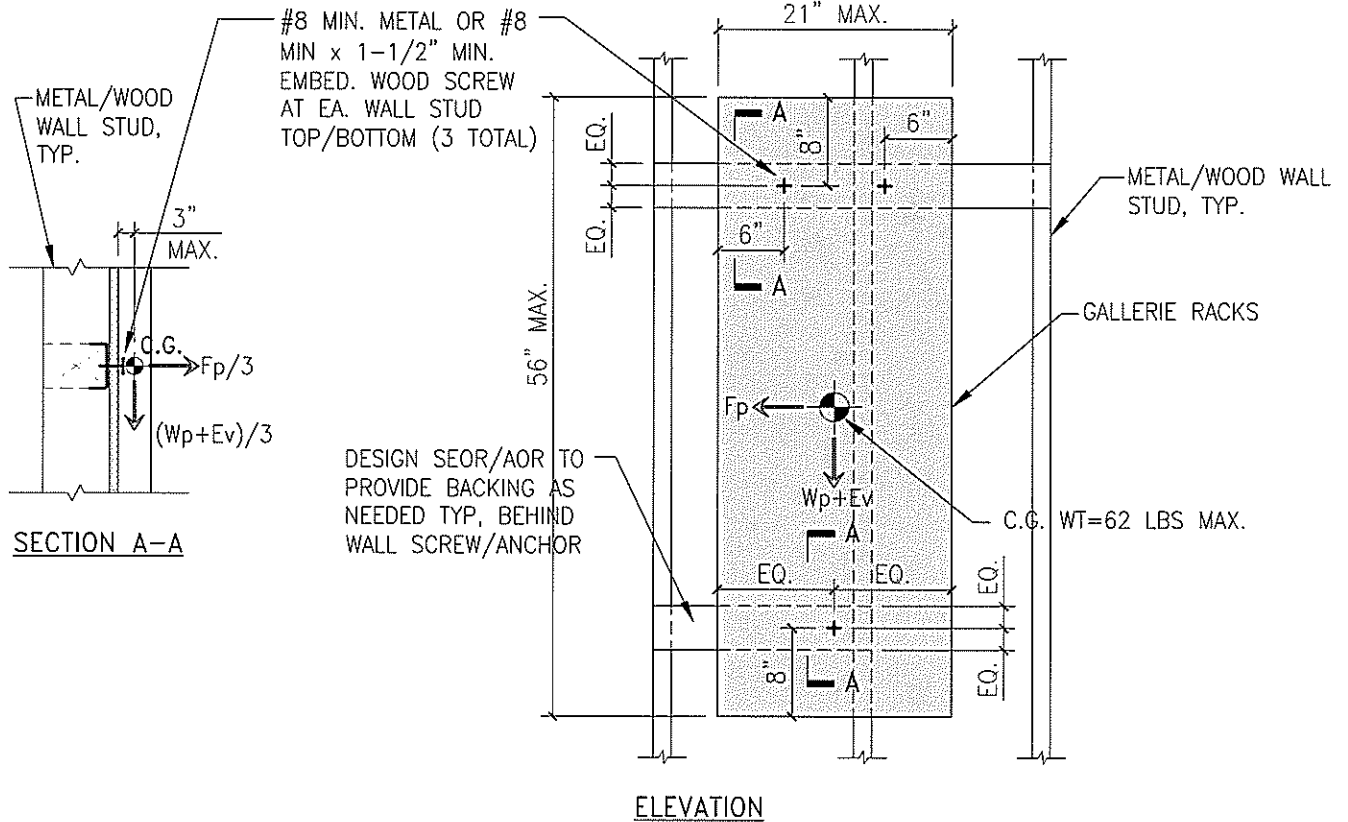
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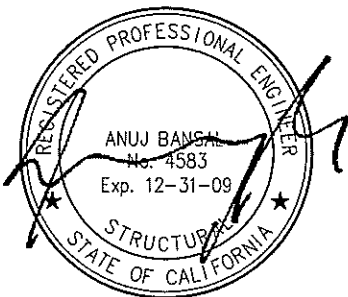
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MODELS 4043, 4044 – METAL/WOOD STUDWALL ATTACHMENT



MAXIMUM DEMANDS AT WALL SCREWS

CASE 1: EQ FORCE PERPEND. TO WALL	
TENSION = 99.2 LBS	SHEAR = 32.9 LBS
CASE 2: EQ FORCE PARALLEL TO WALL	
TENSION = 55.1 LBS	SHEAR = 101.0 LBS



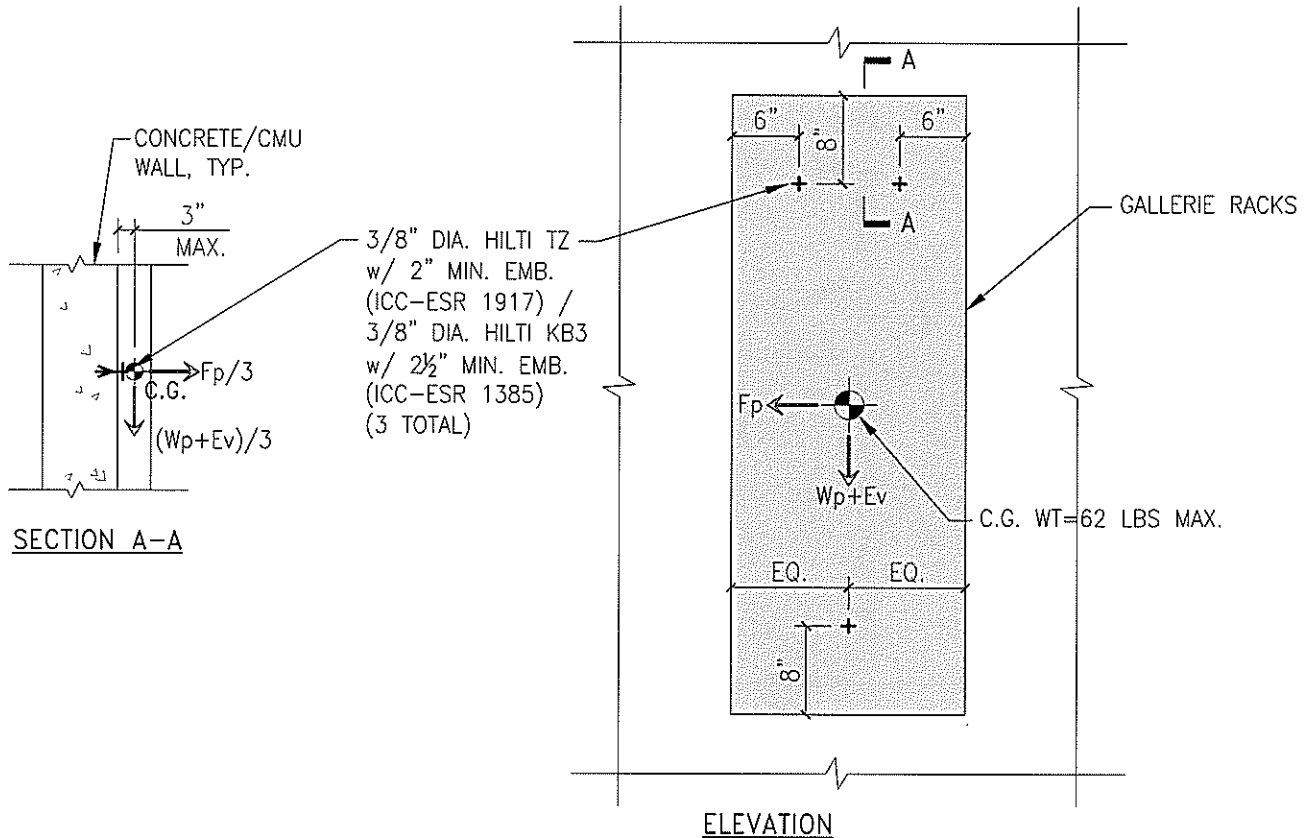
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MODEL 4043, 4044 – CONCRETE/CMU WALL ATTACHMENT

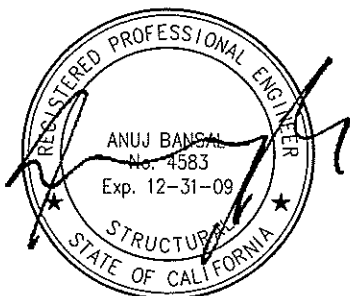


MAXIMUM DEMANDS AT WALL ANCHORS

CASE 1: EQ FORCE PERPEND. TO WALL	
TENSION = 128.9 LBS	SHEAR = 42.7 LBS
CASE 2: EQ FORCE PARALLEL TO WALL	
TENSION = 71.7 LBS	SHEAR = 131.3 LBS

NOTES:

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