

DEGENKOLB ENGINEERS

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

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Office Of Statewide Health Planning And Development ANCHORAGE PRE-APPROVAL

OPA - 2149 - 07

PRODUCT MANUFACTURER: PETER PEPPER PRODUCTS

PRODUCT NAME/TYPE/MODEL: PARALLEL [Models H6020-3, H7216-3, H7220-3]

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):

Fp = 1.6 SDs lp Wp = 4.62 WpFv = 0.2 SDs Wp = 0.39 Wp WHERE,

SDs = 2/3 Fa Ss = 1.927g (EQ. 11.4-3)

ip 1.50

Fa 1.00

Ss 2.89 g

Wp 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.







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GENERAL NOTES (CONT'D):

- 5. ALL LOADS SHOWN ON THE CALCULATIONS ARE BASED ON STRENGTH DESIGN.
- 6. THIS UNIT DOES NOT REQUIRE SEISMIC CERTIFICATION.
- TYPICAL DIMENSIONAL TOLERANCE IS ± ½".

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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MATERIAL SPECIFIC NOTES FOR SUPPORTING STRUCTURAL MEMBERS:

LIGHT GAGE METAL:
 MINIMUM GAGE: 20 GA.
 MINIMUM YIELD STRENGTH (fy) = 33 KSI

WOOD:

MINIMUM GRADE: DOUGLAS FIR NO.3 OR BETTER MINIMUM SPECIFIC GRAVITY (G) = 0.46

CONCRETE:

MINIMUM UNIT WEIGHT = 110 pcf (LIGHT WEIGHT CONCRETE)
MINIMUM UNIT WEIGHT = 145 pcf (NORMAL WEIGHT CONCRETE)
MINIMUM COMPRESSIVE STRENGTH (f'c) = 2000 PSI

4. MASONRY:

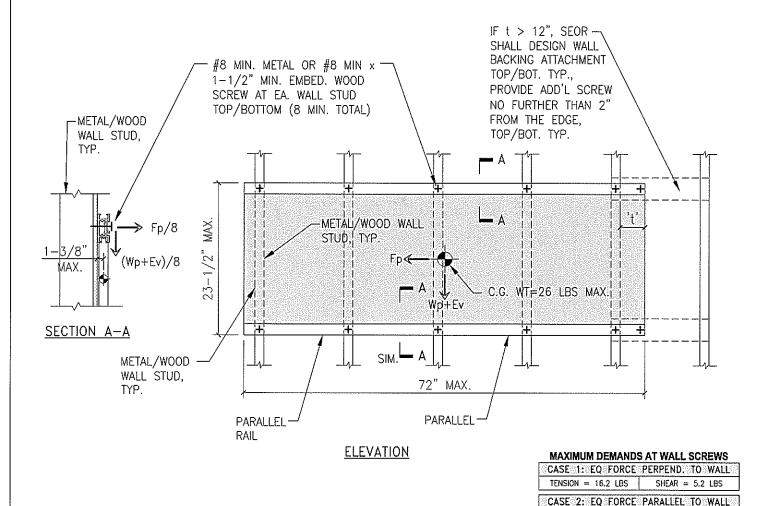
MINIMUM COMPRESSIVE STRENGTH (fm) = 1500 PSI

- 5. SEE 2007 CALIFORNIA BUILDING CODE FOR MORE INFORMATION AND OTHER REQUIREMENTS.
- IF THE WOOD MATERIAL USED HAS A LOWER QUALITY THAN WHAT IS SPECIFIED ABOVE, SEOR SHALL EVALUATE THE BACKING SUPPORT DESIGN.





PARALLEL - METAL/WOOD STUDWALL ATTACHMENT







TENSION = 2.4 LBS

SHEAR = 15.9 LBS

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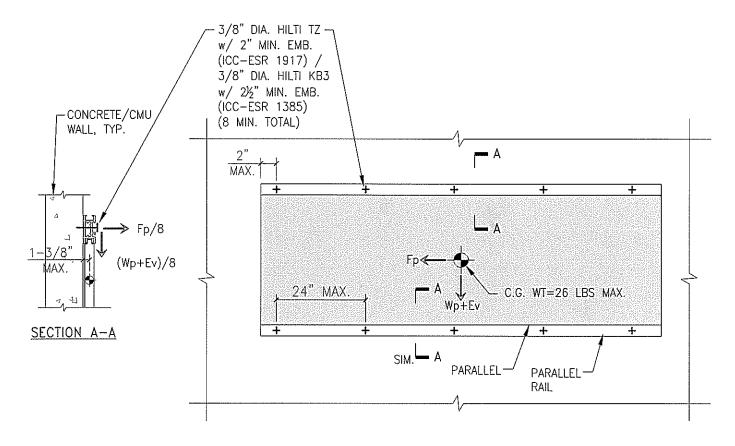
PETER PEPPER PRODUCTS

PARALLEL MODELS H6020-3, H7216-3, H7220-3 Designed By TY

Project # A8621021.00

Date 10/24/2008

PARALLEL - CONCRETE/CMU WALL ATTACHMENT



ELEVATION

MAXIMUM DEMANDS AT WALL ANCHORS

CASE_1: EQ FORCE PERPEND. TO WALL
TENSION = 21.1 LBS | SHEAR = 6.7 LBS

CASE 2: EQ FORCE PARALLEL TO WALL
TENSION = 3.1 LBS SHEAR = 20.6 LBS

NOTES:

1. SEE PAGE 4 FOR INFO NOT SHOWN



