

CCDC EXPANSION PROJECT

PALLET RACKS AND ROLLERS PURCHASE FOR WAREHOUSE BUILDING G

REVISED LAYOUT DRAWINGS & SEISMIC INFORMATION

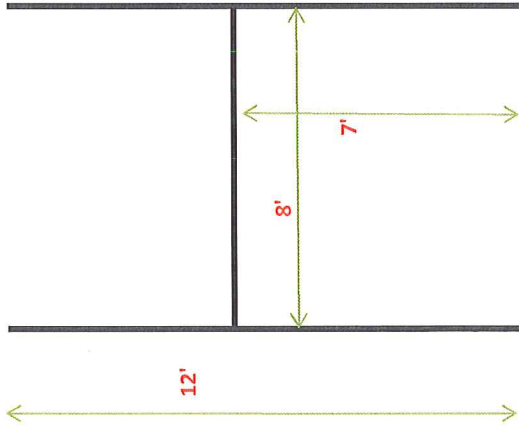
ADDEDNDUM NUMBER 1

6/21/12

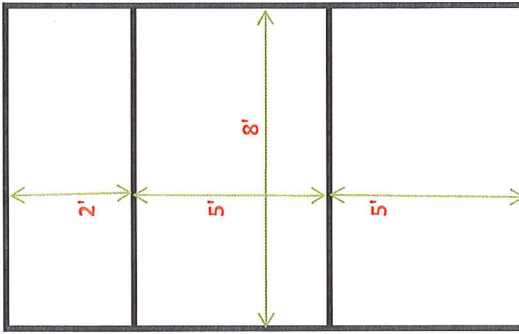
62/12

48-8' wide Rocks
8-4' wide Rocks

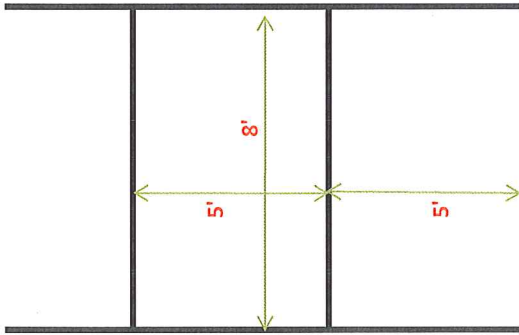
A



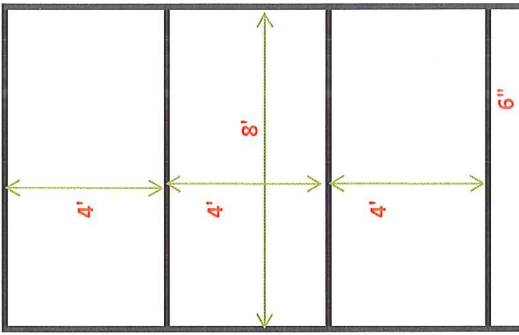
B



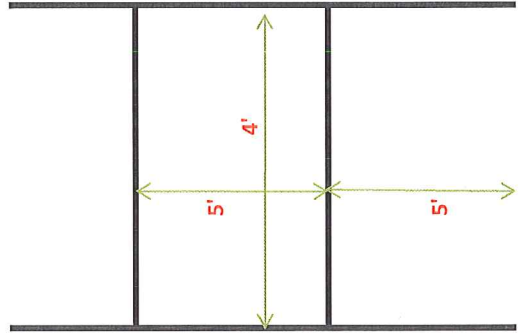
C



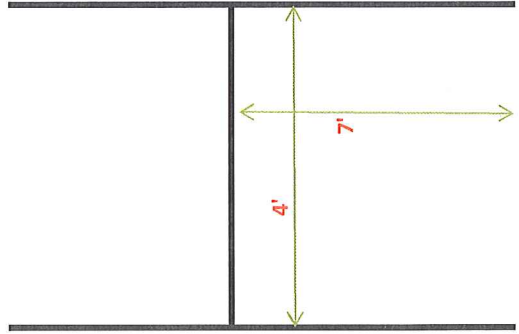
D



E



F

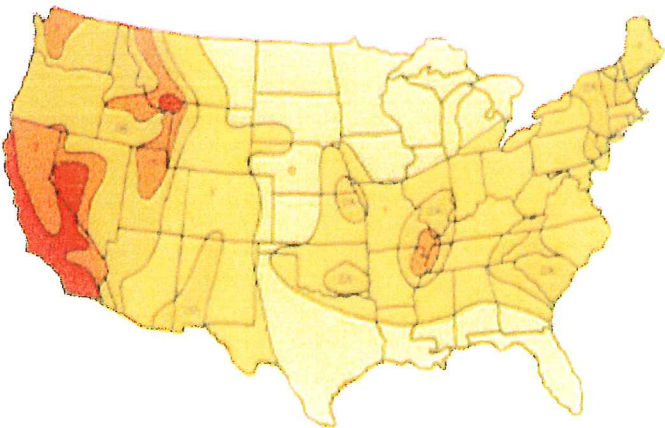


[Catalog \(http://www.cisco-eagle.com/catalog\)](http://www.cisco-eagle.com/catalog) > [Racks \(c-772-racks.aspx\)](#) > [Pallet Rack \(c-1288-pallet-rack.aspx\)](#) > [Pallet Rack Information \(c-3045-pallet-rack-information.aspx\)](#) > Seismic Zones & Pallet Rack

Seismic Zones and Pallet Rack






The advent of higher-density storage in warehousing and other operations makes it important to use the correct zone rated racking

- ▶ [Inquire \(http://www.cisco-eagle.com/forms/general-inquiry.htm\)](http://www.cisco-eagle.com/forms/general-inquiry.htm), or call 888-877-3861 for immediate assistance.
- ▶ [Seismic Pallet Rack Standard Models \(http://www.cisco-eagle.com/catalog/c-1340-mecalux-seismic-rack.aspx\)](http://www.cisco-eagle.com/catalog/c-1340-mecalux-seismic-rack.aspx) (many others available)



Taller racks, higher density...

In recent years, higher-density storage systems such as VNA (very narrow aisle) have increased the complexity of safely designing a racking system. While building codes have gotten stricter—and safer—storage technologies have pushed the envelope. Tolerances are tighter, and errors less tolerable, especially in seismic zones three and four. With an array of pallet racking solutions that ranges from selective to pallet flow, the need to carefully plan your seismic zone 3 or 4 rack project is amplified.

Color	Zone	Risk
	1	Low
	2A	Moderate
	2B	Moderate
	3	High
	4	Extreme

SEISMIC LOADING ON STRUCTURE AS PER IBC 2006 REQUIREMENTS BASED ON:

SEISMIC IMPORTANCE FACTOR (IE) 1.25
OCCUPANCY CATEGORY III

NORTH SIDE OF SITE (AREAS A, B, C, D, E, F, G, J2, AND L)

SITE CLASS E
SPECTRAL RESPONSE COEFFICIENT (SDS) 0.486g
SPECTRAL RESPONSE COEFFICIENT (SD1) 0.274g
SEISMIC DESIGN CATEGORY D
BASIC SEISMIC-FORCE-RESISTING SYSTEM SPECIAL REINF MASONRY SW
DESIGN BASE SHEAR 133k (AREA A)
205k (AREA C)
88k (AREA D)
215k (AREA G)
SEISMIC RESPONSE COEFFICIENT (Cs) 0.122
RESPONSE MODIFICATION FACTOR (R) 5
ANALYSIS PROCEDURE USED EQUIV. LAT. FORCE

SOUTH SIDE OF SITE (AREA K)

SITE CLASS D
SPECTRAL RESPONSE COEFFICIENT (SDS) 0.356g
SPECTRAL RESPONSE COEFFICIENT (SD1) 0.185g
SEISMIC DESIGN CATEGORY C
BASIC SEISMIC-FORCE-RESISTING SYSTEM INTERMEDIATE REINF MASONRY
AND INTERMEDIATE PRECAST SW
DESIGN BASE SHEAR 360k
SEISMIC RESPONSE COEFFICIENT (Cs) 0.127
RESPONSE MODIFICATION FACTOR (R) 3.5
ANALYSIS PROCEDURE USED EQUIV. LAT. FORCE

PRECAST CONCRETE TOWERS (AREAS H AND J)

SITE CLASS D
SPECTRAL RESPONSE COEFFICIENT (SDS) 0.356g
SPECTRAL RESPONSE COEFFICIENT (SD1) 0.185g
SEISMIC DESIGN CATEGORY C
BASIC SEISMIC-FORCE-RESISTING SYSTEM INTERMEDIATE PRECAST SW
DESIGN BASE SHEAR 3130k @ BASE BID
4075k @ ADD ALTERNATE
SEISMIC RESPONSE COEFFICIENT (Cs) 0.111
RESPONSE MODIFICATION FACTOR (R) 4
ANALYSIS PROCEDURE USED EQUIV. LAT. FORCE

SCHEDULE OF SPECIAL INSPECTION SERVICES					
PROJECT					
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT	AGENT*	DATE COMPLETED
1707.5 Pier Foundations Special Inspections for Seismic Resistance					
Inspection during placement of reinforcing.	Field inspection		Periodic		
Inspection during placement of concrete.	Field inspection		Continuous		
1707.6 Storage Racks and Access Floors Special Inspections for Seismic Resistance					
Inspection during the anchorage of access floors and storage racks 8 feet or greater in height.	Field inspection		Periodic		
1707.7 Architectural Components Special Inspections for Seismic Resistance					
Inspection during the erection and fastening of exterior cladding and interior and exterior veneer.	Field inspection		Periodic		
Inspection during the erection and fastening of interior and exterior non load bearing walls.	Field inspection		Periodic		
1707.8 Mechanical and Electrical Components Special Inspections for Seismic Resistance					
Inspection during the anchorage of electrical equipment for emergency or standby power systems.	Field inspection		Periodic		