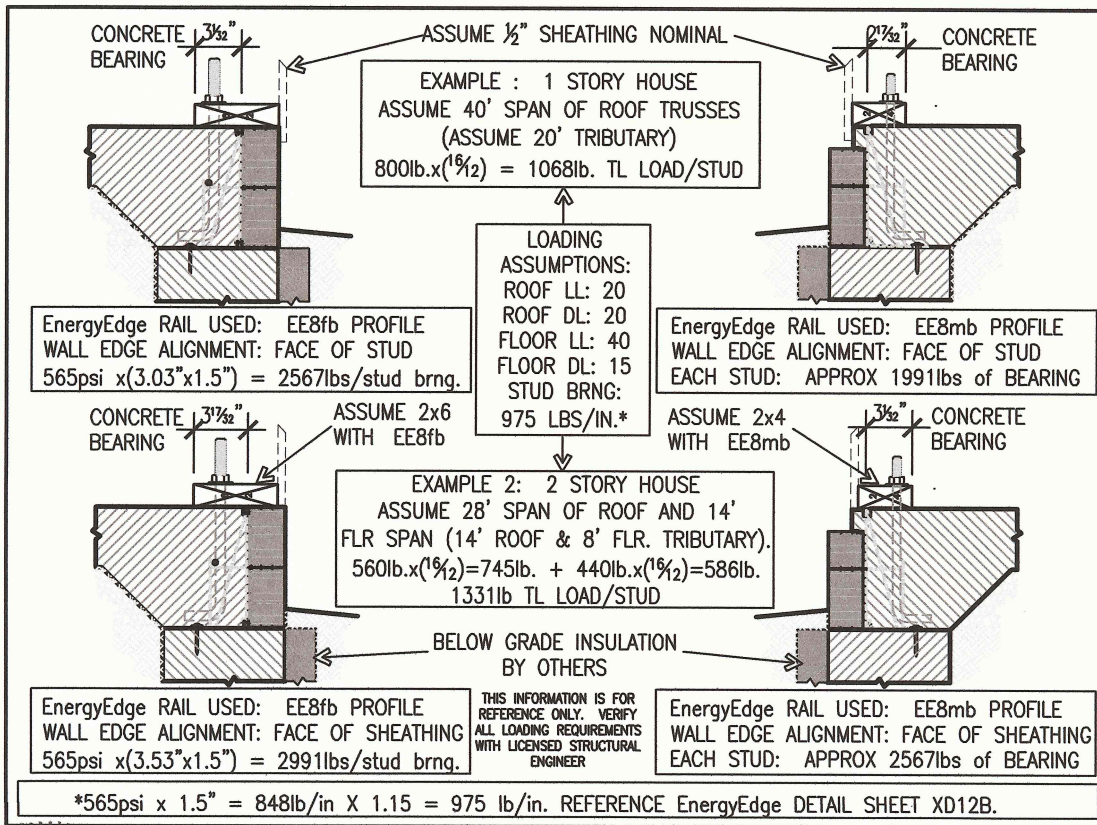
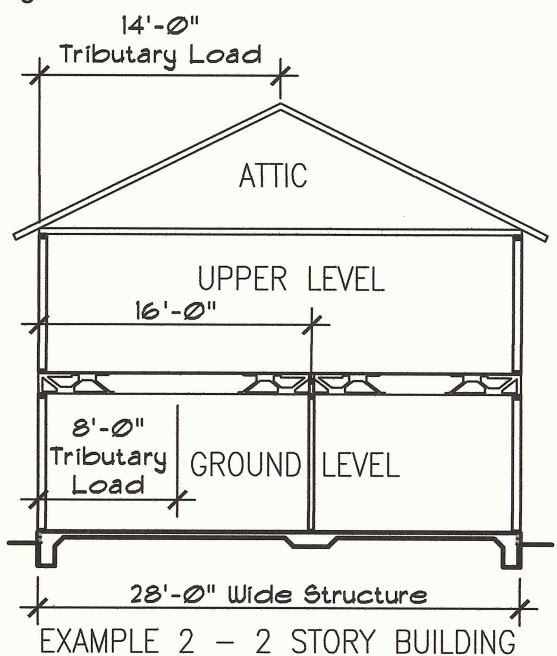
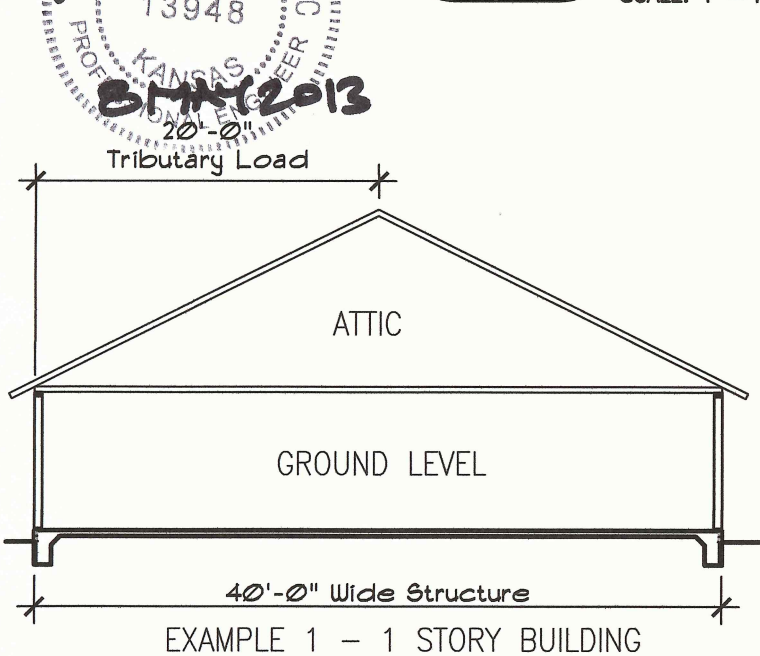


EnergyEdge SILL BEARING PERFORMANCE



XD 12A WOOD SILL LOADING 0910 TYPICAL EDGE CONDITIONS R-10 1 SCALE: 1"=1'-0"



GENERAL NOTES: These details are presented in good faith by EnergyEdge, LLC and represent typical and/or general conditions. They are offered as a guide for consideration to assist the designer, specifier installer and/or owner. The responsibility remains with the user for the design

and implementation of any system. For conditions not shown, consult EnergyEdge for specific recommendations. Generally, all details are available in printed and electronic file format (dwg, pdf, jpg). EnergyEdge is trademarked and Patent Pending in the United States and Canada.

High Performance Slab Edge
 "FORM with FUNCTION"

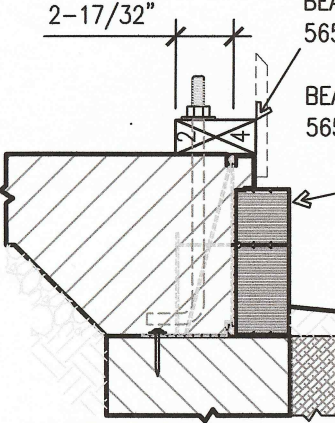


8 MAY 13
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 XD12A

ARCHITECTURAL DETAILS EnergyEdge SILL BEARING PERFORMANCE

EnergyEdge SILL BEARING CAPACITY ANALYSIS

ARCHITECTURAL DETAILS  EnergyEdge SILL BEARING CAPACITY ANALYSIS



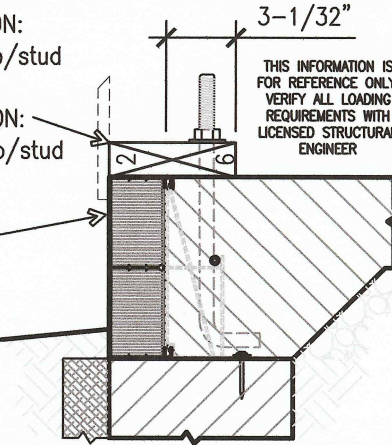
BEARING 2x4 IN THIS APPLICATION:
565psi x(2.53")x(1.5") = 2144lb/stud

BEARING 2x6 IN THIS APPLICATION:
565psi x(3.03")x(1.5") = 2568lb/stud

EE8mb PROFILE
EE8fb PROFILE

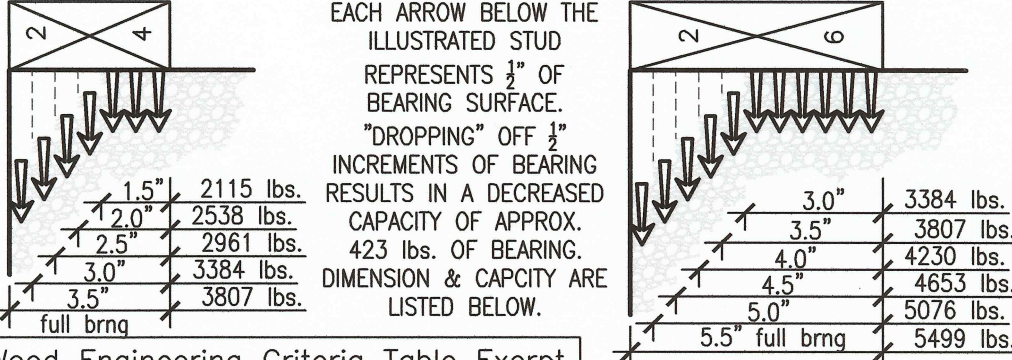
REF. EnergyEdge
DETAIL SHEET
XD12A
FOR MORE DESIGN
LOADING INFO.

EXAMPLE 1
EE8mb WITH 2x4 STUD



THIS INFORMATION IS
FOR REFERENCE ONLY.
VERIFY ALL LOADING
REQUIREMENTS WITH
LICENSED STRUCTURAL
ENGINEER

EXAMPLE 1
EE8mb WITH 2x4 STUD



EACH ARROW BELOW THE ILLUSTRATED STUD REPRESENTS 1/2" OF BEARING SURFACE. "DROPPING" OFF 1/2" INCREMENTS OF BEARING RESULTS IN A DECREASED CAPACITY OF APPROX. 423 lbs. OF BEARING. DIMENSION & CAPACITY ARE LISTED BELOW.

1.5"	2115 lbs.
2.0"	2538 lbs.
2.5"	2961 lbs.
3.0"	3384 lbs.
3.5"	3807 lbs.
full brng	

3.0"	3384 lbs.
3.5"	3807 lbs.
4.0"	4230 lbs.
4.5"	4653 lbs.
5.0"	5076 lbs.
5.5" full brng	5499 lbs.

Wood Engineering Criteria Table Exerpt from American Wood Council Design Values

Species and commercial grade	Size clasification	Compression perpendicular to grain (Fcp)	Compression parallel to grain (Fc)
Table 4A Base Design Values for Visually Graded Dimension Lumber			
Spruce-Pine-Fir SPF #1 & #2	2" to 4" Thick	425	650
Table 4B Base Design Values for Visually Graded Dimension Lumber			
Southern Pine #2	2" to 4" Thick	565 (Treated Sill)	1650

TYPICAL CAPACITY CALCULATION per 1/2" of BEARING assuming TREATED LUMBER (S.PINE #2) BASE PLATE MATERIAL:
 AREA: .5"x1.5" = .75 sq.in.
 SPF#2 treated (565/sq.in.)x.75 = 423 lbs/1/2 in. of 2X Bearing or 846 lbs/in. TL Bearing Capacity

THE DATA FROM THIS STUDY ARE USED IN THE ANALYSIS OF BEARING IMPACTS RESULTING FROM INCLUSION OF "NON-BEARING" INSULATION MATERIALS REQUIRED AT THE PERIMETER OF COMMON CONCRETE SLAB EDGES AND BELOW PERIMETER BEARING WALLS.

XD 12B SILL LOADING ANALYSIS
0910 IMPACT OF PARTIAL BEARING at SILL
 1 SCALE: 3"=1'-0"



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