WISCONSIN TRUSS, INC.
609 INDUSTRIAL PARK RD. • CORNELL, WISCONSIN 54732
Office: (715) 239-6465 or 723-8817 Toll Free: (800) 826-6975
Fax: (715) 239-6731, Toll Free: (800) 826-6974
E-mail: wistruss@ wisconsintruss.com

QUOTATION

QUOTE #: T245945-1
ORDER #:

DATE: 04/22/14
JOB NAME: Joe Gunnlagsson

SOLD TO: HOME DEPOT, GREEN BAY EAST
ADDRESS: 2595 EASTON ROAD
CITY,STATE: GREEN BAY, WI 54311
FAX #: 920-406-5302
ATTENTION: Jean

DIRECTIONS: Washington Island
DATE REQUIRED:
QUOTE BY: BERNIE R.

Item	Qty	Slope	Span ft. - in. - 16th	Overhang Left	Overhang Right	Style	Special Conditions	On Center Spacing	Cost Each	Extended Cost
A										
B										
C										
D	9	6/12	30 - 0 - 0	12"	12"	Common		4'		
E	2	6/12	30 - 0 - 0	12"	12"	Common Struc End		4'		
F										
G										
H										
I										
J										
K										
L										
M										
N										
O										
P										
Q										
R										
S										
T										
U										
V										
W										

Delivery Included to Washington Island,Wi.

Retail Price
$2,758.92

Open Pavilion is 30-0 x 40-0

(9) Common Trusses 30-0 span; 6/12 pitch; 12" OH's; 48" OC spacing; TCDL 7 PSF; BCDL 5 PSF

(2) Structural Gable Ends Same; Vertical Uprights 16" OC

Special Conditions:
1.
2.
3.
4.
5.
6.

Design Loads	
T.C live	40
T.C. dead	7
B.C. live	
B.C dead	5
Building Type:	Commercial

This quotation includes only the items listed and/or described above. All information must be verified by customer, contractor, or other responsible party(s). Unless noted, all quotes are subject to review 15 days after quote date shown above.

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Job: t245945-1 Mark: R1 Quantity: 9 Type: FI Span: 300000 P1-H1: 6 Left OH: 1- 0- 0 P Right OH: 1- 0- 0 P

Home Depot - Green Bay - East-4915

JT	X-POS	Y-POS	PLATE	SIZE	TYPE	X	Y
A	-15- 0- 0	0	5.00 x	8.00	MT20 20	0.75	0.63
C	15- 0- 0	0	5.00 x	8.00	MT20 20	0.75	0.63
S1	-1- 0- 0	1-12	4.00 x	8.00	MT20 20	CNTR	0.25

MT20 20 Gripping Values max:252.9 min:230.0

DL+LL Deflection is 0.53" at Joint S1
DL+LL Displacement(Horz) is 0.19" at Joint C

MEMBER	CSI	CHORD FORCE	DISP
A -F	0.80	5104C	7- 9- 4
F -B	0.79	4358C	7- 2-12
B -G	0.79	4358C	7- 2-12
G -C	0.80	5104C	7- 9- 4
A -E	0.90	4581T	10- 2- 3
E -S1	0.81	2998T	3- 9-13
S1-D	0.81	2998T	5- 9-13
D -C	0.90	4581T	10- 2- 3

MEMBER	CSI	WEB FORCE
F -E	0.63	1325C
B -E	0.71	1572T
B -D	0.71	1572T
D -G	0.63	1325C

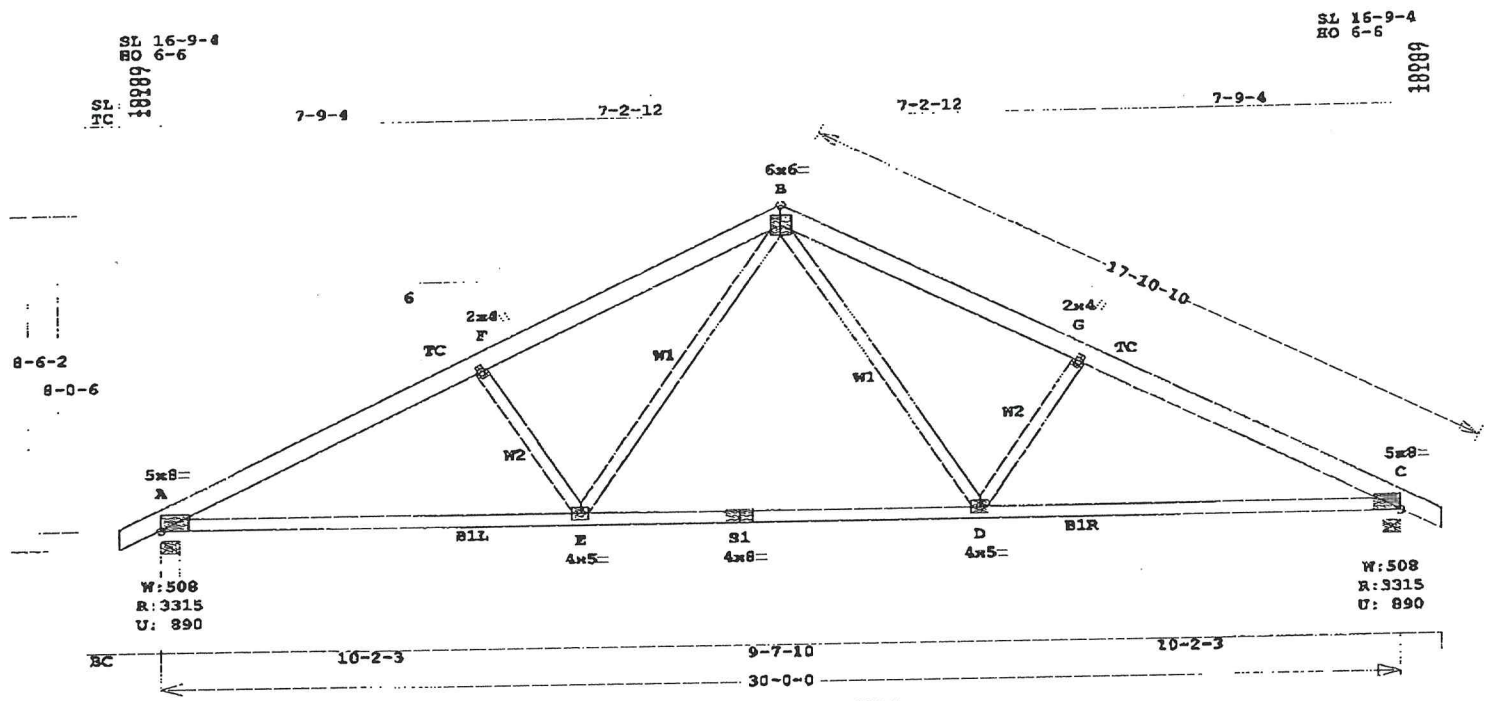
Max CSI Top 0.80
Max CSI Bot 0.90
Max CSI Webs 0.71

Top Chords
2X 6 SPF-1650E-1.5E
Bottom Chords
2X 4 SPF-1800E-1.6E
Webs
W2 2X 4 SPF-STUD
W1 2X 4 SPF-#2

NOTES:
Trusses Manufactured by WISCONSIN TRUSS
Analysis conforms to IBC/IRC2006
Truss spacing is 48.0 In
Design checked for 10 psf non-concurrent live load on BC.
Prevent truss rotation at all bearing locations.
Brace trusses as follows:

	O.C.	From	To
TC	24.0	0.0	360.0
BC	72.0	0.0	360.0

Wind Loads - ANSI
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 90 mph Mean Roof Height: 300.0 In
Exposure Category: C Occupancy Category: I
Building Type: Enclosed TC Dead Load: 4.0 psf
Zone Location: Exterior Zone BC Dead Load: 3.0 psf
Max compression force 5104
Quality Control Factor 1.25



ALL PLATES ARE MT2020

Scale: 0.229" = 1"

WISCONSIN TRUSS, INC.
Office: (715) 239-6865 or (800) 826 6975
Fax: (715) 239-6791 or (800) 826 6974
E-mail: sales@wisconsintruss.com

Connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearings at each end, unless indicated otherwise. Cutting and fabrication shall be performed on equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and this design is not applicable for use with fire retardant lumber and some preservative treatments. This design was prepared in accordance with "National Design Specifications for Wood Construction" (AFPA), "National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafters.

MiTek Industries, Inc. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to BCSI 1-03 as published by the Truss Plate Institute, 583 North Lee Street, Suite 312, Alexandria, VA 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and "dominoing". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records.

FURNISH A COPY OF THIS DESIGN TO ERECTION CONTRACTOR.
IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THIS TRUSS DESIGN DRAWING & VERIFY THAT DATA INCLUDING DIM. AND LOADS CONFORM TO ARCH. PLANS/SPECS AND FAB. TRUSS PLACEMENT DIAGRAM.

Standard Loading	
TC Live	40.0 psf
TC Dead	7.0 psf
BC Live	0.0 psf
BC Dead	5.0 psf
Total	52.0 psf
Lumber SI	1.15
Plate SI	1.15
Spacing	48.0 in.

Designer:
Checker:
Reviewer:
Designed:
Rev No:
Rev Date:
Run Date: 4/25/2014
Version: 30.0.023
Drawing:

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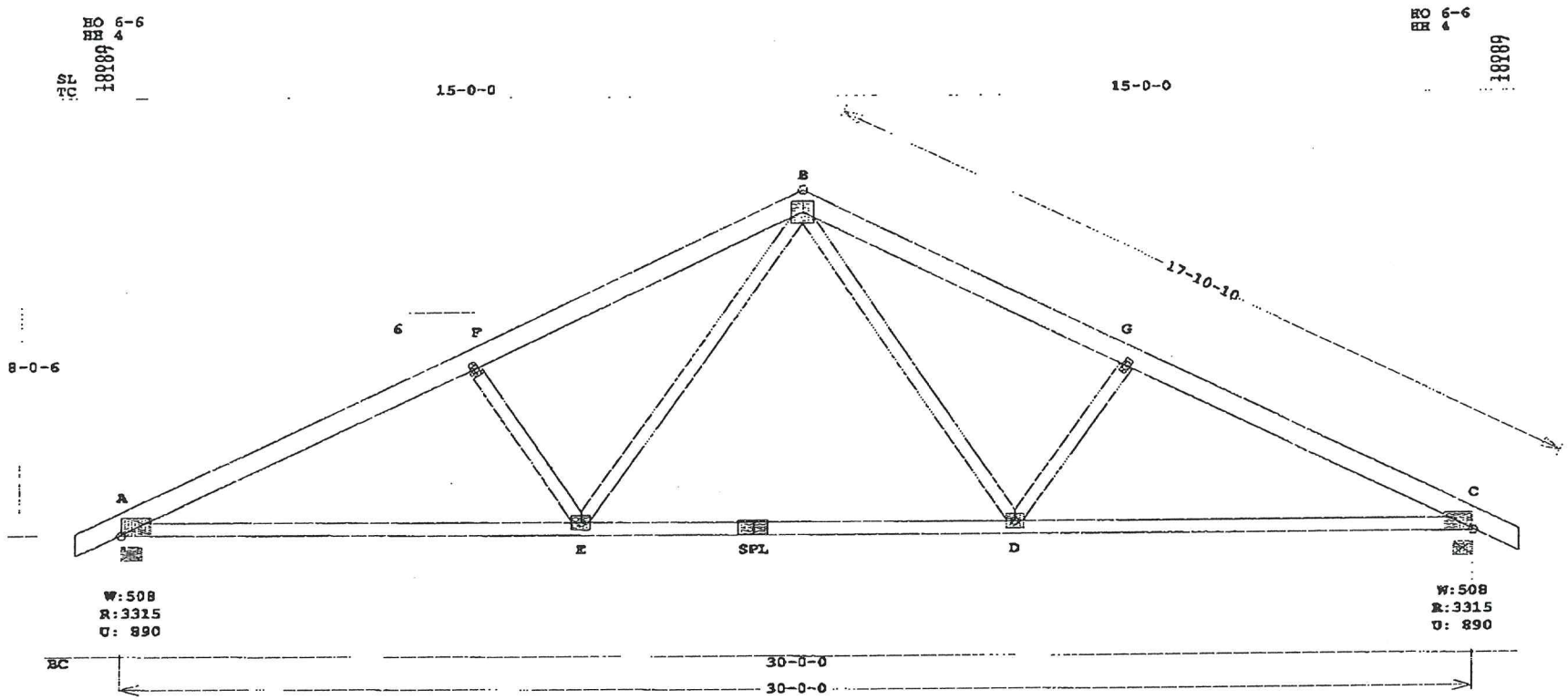

Scale: 0.274" = 1'

MiTek® Online Plus℠

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Single Drawing
t245945-1	R1	9	FI	300000	6	1- 0- 0	1- 0- 0	

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Job: t245945-1 Mark: R1E Quantity: 2 Type: FI Span: 300000 P1-H1: 6 Left OH: 1- 0- 0 P Right OH: 1- 0- 0 P

Home Depot - Green Bay - East-4915

JT	X-POS	Y-POS	PLATE	SIZE	TYPE	X	Y
A	-15- 0- 0	0	5.00 x	8.00	MT20 20	0.75	0.63
C	15- 0- 0	0	5.00 x	8.00	MT20 20	0.75	0.63
S1	-1- 0- 0	1-12	4.00 x	8.00	MT20 20	CNTR	0.25

MT20 20 Gripping Values max:252.9 min:230.0

DL+LL Deflection is 0.53" at Joint S1
DL+LL Displacement(Horz) is 0.19" at Joint C

MEMBER	CSI	CHORD FORCE	DISP
A -F	0.80	5104C	7- 9- 4
F -B	0.79	4359C	7- 2-12
B -G	0.79	4358C	7- 2-12
G -C	0.80	5104C	7- 9- 4
A -E	0.90	4581T	10- 2- 3
E -S1	0.81	2998T	3- 9-13
S1-D	0.81	2998T	5- 9-13
D -C	0.90	4581T	10- 2- 3

MEMBER	CSI	WEB FORCE
F -E	0.63	1325C
B -E	0.71	1572T
B -D	0.71	1572C
D -G	0.63	1325C

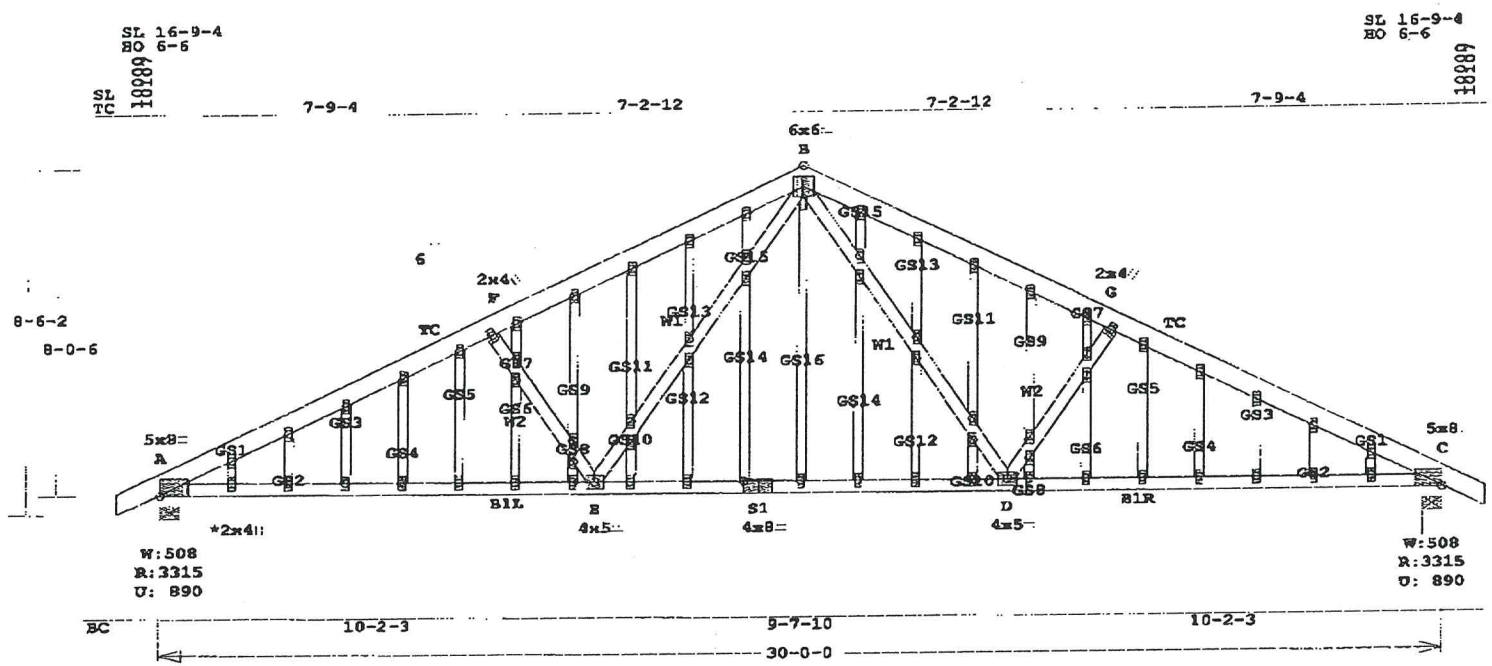
Max CSI Top 0.80
Max CSI Bot 0.90
Max CSI Webs 0.71

Top Chords
2X 6 SPF-1650E-1.5E
Bottom Chords
2X 4 SPF-1800F-1.5E
Webs
W2 2X 4 SPF-STUD
W1 2X 4 SPF-#2
Gable Studs
2X 3 SPF-STUD

NOTES:
Trusses Manufactured by WISCONSIN TRUSS
Analysis conforms to IBC/IRC2006
Truss spacing is 48.0 In
Design checked for 10 psf non-concurrent live load on BC.
Prevent truss rotation at all bearing locations.
Brace truss as follows:

	O.C.	From	To
TC	24.0	0.0	360.0
BC	78.0	0.0	360.0

Wind Loads - ANSI
Truss is designed as a Main Wind-Force Resistance System.
Wind Speed: 90 mph Mean Roof Height: 300.0 In
Exposure Category: C Occupancy Category: 1
Building Type: Enclosed TC Dead Load: 4.0 psf
Zone Location: Exterior Zone BC Dead Load: 3.0 psf
Max compression force 5104
Quality Control Factor 1.25



ALL PLATES ARE MT2020

See * For Typical Gable Plate Size and Placement

Scale: 0.237" = 1'

WISCONSIN TRUSS, INC.
INDUSTRIAL PARK 55 - SHEBOYGAN, WISCONSIN
Office: (715) 239-6685 or (800) 826-6925
Fax: (715) 239-6731 or (800) 826-6974
E-mail: wisconsintruss@charter.net

Connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearings at each end, unless indicated otherwise. Cutting and fabrication shall be performed on equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and this design is not applicable for use with fire retarded lumber and some preservative treatments. This design was prepared in accordance with "National Design Specifications for Wood Construction" (AWPA), "National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafters.

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Standard Loading	
TC Live	40.0 psf
TC Dead	7.0 psf
BC Live	0.0 psf
BC Dead	5.0 psf
Total	52.0 psf
Lumber SI	1.15
Plate SI	1.15
Spacing	48.0 in.

Designer:
Checker:
Reviewer:
Designed:
Rev No:
Rev Date:
Run Date: 4/25/2014
Version: 30.0.023
Drawing:

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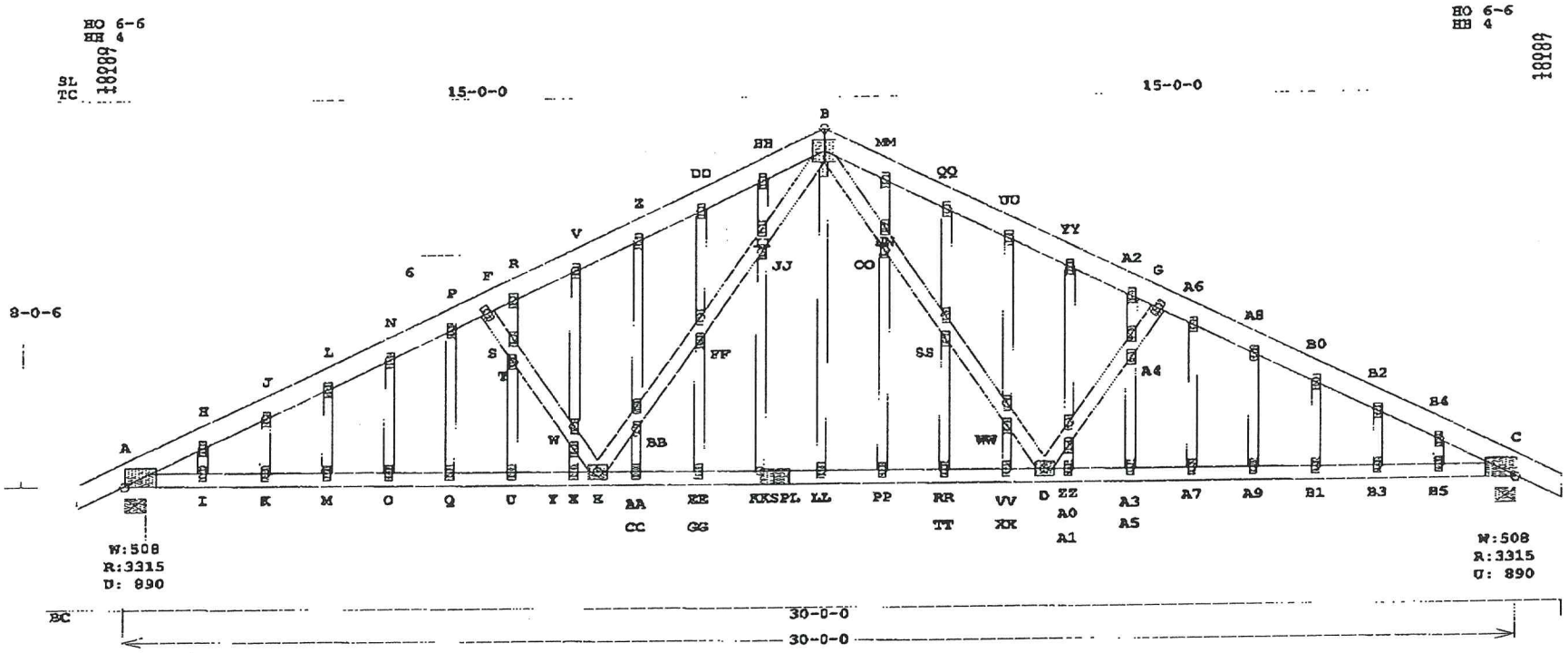

Scale: 0.282" = 1'

MiTek® Online Plus™

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Single Drawing
t245945-1	RIE	2	FI	300000	6	1- 0- 0	1- 0- 0	

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ABA/ABU/ABW Adjustable and Standoff Post Bases

The AB series of retrofit adjustable post bases provides a standoff for the post, are slotted for adjustability and can be installed with nails, Strong-Drive® SD screws or bolts (ABU). Depending on the application needs, these adjustable standoff post bases are designed for versatility, cost-effectiveness and maximum uplift performance.

Features:

- The slot in the base enables flexible positioning around the anchor bolt, making precise post placement easier
- The 1" standoff helps prevent rot at the end of the post and meets code requirements for structural posts installed in basements or exposed to weather or water splash

Material: Varies (see table).

Finish: All galvanized, most offered in ZMAX® coating; see Corrosion Information.

Installation:

- Use all specified fasteners. See General Notes.
- See *Anchoring and Fastening Systems for Concrete and Masonry* for retrofit anchor options or reference technical bulletin T-ANCHORSPEC.
- Post bases do not provide adequate resistance to prevent members from rotating about the base and therefore are not recommended for non top-supported installations (such as fences or unbraced carports).
- Place the base, load transfer plate and nut on the anchor bolt. Loosely tighten the nut.

ABW
—Place the standoff base and then the post in the ABW and fasten on three vertical sides, using nails or Strong-Drive SD structural-connector screws.
—Make any necessary adjustments to post placement and tighten the nut securely on the anchor bolt.
—Bend up the fourth side of the ABW and fasten using the correct fasteners.

ABU
—Place the standoff base and then the post in the ABU.
—Fasten using nails or Strong-Drive SD structural connector screws or bolts (*ABU88, ABU1010 – SDS optional*).

ABA
—Place the post in the ABA.
— Fasten using nails or SD Screws.

Load Tables
Gallery of Images
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INSTALLATION

View step-by-step installation instructions

Connector-Anchor Selector
Easily determine required anchor solution and adjacent depths

Some products may be installed with the Strong-Drive® SD Structural Connector screw - click here for details

Gallery:

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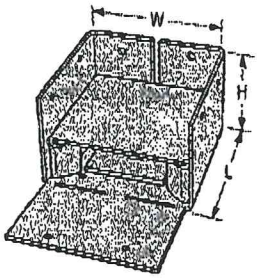
roll over images below to see larger image

ABW

ABU44 (other sizes similar)

ABU88 (ABU1010 similar)

ABA44 (other sizes similar)



Typical ABW Installation

Typical ABA44 Installation

Load Tables: See code report listings below

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Load Values with Nails

These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

These models are approved for installation with the Strong-Drive SD Structural-Connector screw. See the load values below.

Model No.	Nominal Post Size	Material: Base (Ga)	Material: Strap (Ga)	Dimensions (in.): W	Dimensions (in.): L	Dimensions (in.): H	Dimensions (in.): HB[6]	Fasteners: Anchor Dia. (in.)	Fasteners: Post: Nails	Fasteners: Post: Machine Bolts: Qty.	Fasteners: Post: Machine Bolts: Dia.	Allowable Loads (DF/SP): Uplift (160): Nails	Allowable Loads (DF/SP): Uplift (160): Bolts	Allowable Loads (DF/SP): Down (100)
ABA44Z	4x4	16	16	3 9/16	3 1/8	3 1/16	—	½	6-10d	—	—	555	—	6000
ABW44Z	4x4	16	16	3 9/16	3 9/16	2¼	—	½	8-10d	—	—	1005	—	7180
ABU44	4x4	16	12	3 9/16	3	5½	1¾	⅝	12-16d	2	½	2200	2160	6665
ABA44R	Rough 4x4	16	16	4 1/16	3 1/8	2 13/16	—	½	6-10d	—	—	555	—	8000
ABW44RZ	Rough 4x4	16	16	4	4 1/16	1 13/16	—	½	8-10d	—	—	1005	—	7180
ABW46Z	4x6	12	16	3 9/16	5 9/16	3	—	½	10-10d	—	—	845	—	4590
ABA46Z	4x6	14	14	3 9/16	5 9/16	3 1/8	—	⅝	8-16d	—	—	700	—	9435
ABU46	4x6	12	12	3 9/16	5	7	2⅝	⅝	12-16d	2	½	2300	2300	10335
ABW46RZ	Rough 4x6	12	16	4	6	2 13/16	—	½	10-10d	—	—	845	—	4590
ABA46R	Rough 4x6	14	14	4 1/16	5 9/16	2⅞	—	⅝	8-16d	—	—	700	—	12000
ABU5-5	5¼x5⅛	12	10	5¼	5	6 1/16	1⅞	⅝	12-16d	2	½	2235	2235	12000
ABU5-6	5¼x6	12	10	5¼	5	6 1/16	1⅞	⅝	12-16d	2	½	2235	2235	12000
ABA66Z	6x6	14	14	5½	5¼	3⅛	—	⅝	8-16d	—	—	720	—	10665
ABW66Z	6x6	12	14	5½	5 9/16	3	—	½	12-10d	—	—	1190	—	12935
ABU66	6x6	12	10	5½	5	6 1/16	1¾	⅝	12-16d	2	½	2300	2300	12000
ABA66R	Rough 6x6	14	14	6	5 9/16	2⅞	—	⅝	8-16d	—	—	720	—	12665
ABW66RZ	Rough 6x6	12	14	6	6	2 13/16	—	½	12-10d	—	—	1190	—	12935
ABU88[4]	8x8	14	12	7½	7	7	—	2-⅝	18-16d	—	—	2320	—	24335
ABU88R[4]	Rough 8x8	14	12	8	7	7	—	2-⅝	18-16d	—	—	2320	—	24335
ABU1010Z	10x10	12	12	9½	9	7¼	—	2-⅝	22-16d	—	—	2270	—	32920
ABU1010RZ	Rough 10x10	12	12	10	9	7	—	2-⅝	22-16d	—	—	2270	—	32920

1. Uplift loads have been increased for wind or earthquake with no further increase allowed; reduce where other loads govern.
2. Downloads may not be increased for short-term loading.
3. Specifier to design concrete for uplift capacity.
4. ABU products may be installed with either bolts or nails (not both) to achieve table loads. ABU88 and ABU88R may be installed with 8-SDS 1/4"x3" wood screws (sold separately) for the same table load.
5. For AB bases, higher download can be achieved by solidly packing grout under 1" standoff plate before installation. Base download on column, grout, or concrete according to the code.
6. HB dimension is the distance from the bottom of the post up to the first bolt hole.
7. Structural composite lumber columns have sides that show either the wide face or the edges of the lumber strands/veneers. For SCL columns, the fasteners for these products should always be installed in the wide face.
8. Downloads shall be reduced where limited by the capacity of the post. See Post Capacities for common post allowable loads.
9. NAILS: 16d = 0.162" dia. x 3 1/2" long. 10d = 0.148" dia. x 3" long. See other nail sizes and information.

12-10d

[redacted]

Load Values with SD Series Screws

These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

			Allowable Loads

You appear to be using Internet Explorer in **Compatibility Mode**. Please turn off Compatibility Mode to view this site properly.

www.strongtie.com SIMPSON Strong-Tie

KBS1Z Knee-Brace Stabilizer

The KBS1Z knee-brace stabilizer makes a structural connection between knee bracing and columns or beams to help stabilize free-standing structures, and comply with many prescriptive deck bracing requirements such as AWC's DCA6 *Prescriptive Residential Wood Deck Construction Guide*. Factory-formed at a 45° angle and easily installed with nails, the KBS1Z braces 2x, 4x and 6x in line post-to-beam configurations. Check with your local building department for deck bracing requirements.

Material: 16 gauge

Finish: ZMAX® coating

Installation:

- Use all specified fasteners. See General Notes.
- For installations at an angle other than 45°, bend KBS1Z along slots to desired angle. Bend one time only.
- Knee Brace:
  - Cut braces at desired angle
  - Bend KBS1Z to desired angle if required
  - Install fasteners to secure in place
  - For equal-width members, install (2) KBS1Z on each end of brace (see connection type 1)
  - For 2x knee brace, install single KBS1Z on each end of brace (see connection type 2)
- Beam-to-Post: Install in pairs. See illustrations for quantity and configuration

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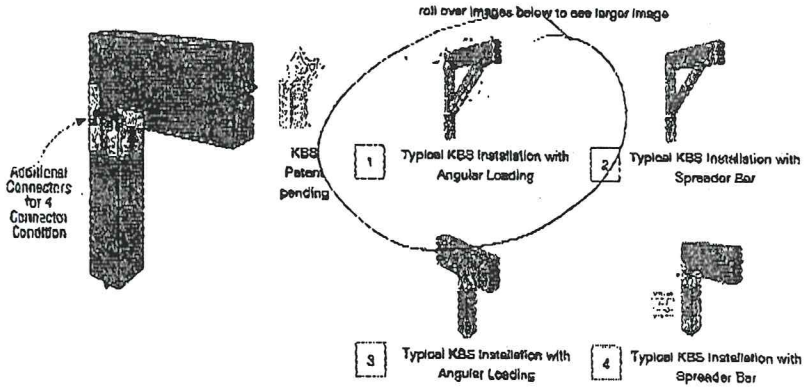

Load Tables: See code report listings below

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These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

This product is approved for installation with the Strong-Drive SD Structural-Connector screw.

24 Connectors per Angle (24)

[redacted]

8
16
24

Model	Dimensions (in.) W	Dimensions (in.) L	Type of Connection	Connectors per Joint	Fasteners Each Connector[1]	Direction of Load	Allowable Loads[2] (160) In-Service Moisture Content ≤ 19% DF/SP	≤ 19% SPF/HF	> 19% DF/SP	> 19% SPF/HF
KBS1Z	1½	3	1	2	12-8d	F_1 Brace angle = 45°	1175	1010	1055	860
						F_1 Brace angle = 30° or 60°[3]	835	720	835	720
			2	1	12-8dx1½	F_1 Brace angle = 45°	630	540	470	385
						F_1 Brace angle = 30° or 60°[3]	510	440	395	330
			3	4	12-8d	Uplift	1160	1000	1160	1000
						Lateral	1725	1480	1725	1480
			4	2	12-8d	Uplift	540	465	540	465
						Lateral	485	420	430	370
				4		Uplift	900	775	900	775
						Lateral	1270	1095	1270	1095

1. SDWx1½ screws may be substituted for the specified fasteners with no load reduction.
2. Allowable loads have been increased for wind or earthquake with no further increase allowed; reduce where other loads govern.
3. For braces installed at intermediate angles, allowable loads may be interpolated between loads listed for brace angle = 45° and brace angle = 30° or 60°.

Code Reports (PDFs):

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	IAPMO UES ER	ICC-ES ESR	CITY OF LOS ANGELES	STATE OF FLORIDA	ICC-ES NER	LEGACY REPORTS ICC-ES ER	ICC-ES ES
KBS1Z			No code listing. Please contact us for test data.				

* ESR-2523 is an index of many of Simpson Strong-Tie Stamped and Welded Cold-formed Steel Products for Wood or Cold-formed Steel Construction

Drawings: To download drawings, right-click or Ctrl-click on the link, then choose "Save Target As..."

▼next ▲top

Download the Simpson Strong-Tie® AutoCAD® Menu, which allows you to insert Ortho views directly into your AutoCAD drawing.

	ORTHOGRAPHIC	PERSPECTIVE
KBS1Z	None for this model	None for this model

Catalog Pages (PDFs):

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