



**TECHNICAL DATA  
PER  
IBC 2000 BUILDING CODE  
TALON™ 2.1**



AMERICAN  
BUILDINGS  
COMPANY

B U I L D I N G   S Y S T E M S



*American Buildings Company is in constant pursuit of excellence in the design, technology, manufacture, and service of its metal building systems. With over 50 years of distinction for its wide variety of high quality products offering total solutions for a multitude of custom engineered metal building system needs, American soars above the rest. Supported by a network of Builders throughout the U.S., Canada, and the Caribbean together with manufacturing and service centers across the U.S., American can address nearly every need:*

- *In-house custom design and engineering services averaging 16 years of experience per Engineer*
- *Design flexibility for systems as either stand-alone structures or in combination with traditional building materials*
- *Large selections of easy-maintenance wall and roof panels*
- *Wide range of optional accessories to enhance and complete any building design*
- *Rapid execution of anchor bolt layout drawings to assist in the speed of the permitting process*
- *Better design and engineering for faster building erection and occupancy for quicker return on investment*
- *Fewer parts on the job site for quicker and less labor time*
- *Strong warranty and erection/installation quality certification programs*
- *On-going research and development efforts*





# Building Systems by American Buildings Company

## TECHNICAL DATA

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## Building Styles

Building styles offered by American include three common designs. The **Gable Style** provides a traditional center-ridged roof slope available in a variety of pitches. The **Single Slope Style** has similar characteristics of the Gable Style but in a single slope configuration. The **Lean-To Style** resembles the Single Slope but provides an economical means of making a building wider by extending its roofline, or it can be attached to a lower level on the building to provide additional office or storage space.

A **Gable Roof System** provides a roof with two sloping sides and a ridge. With optional tapered columns, this style of building is a cost-effective solution for office, warehouse, industrial, and commercial applications. The available straight column option provides a good system for palletized storage or display racks and is also ideal for shopping centers and other commercial buildings. The girts can be located in either a bypass or inset position, and the roof slope can be as low as 1/4:12 or as steep as 6:12. The Gable Roof System is available with clear span frames or with interior columns, which provide economical solutions for wide buildings.



A **Single Slope System** provides a building with one roof surface. With single-side drainage, these systems are suitable for manufacturing facilities, warehouses, and retail shopping centers. The available tapered columns provide an inexpensive solution for wider buildings, while the available straight columns allow for maximum usage of interior space. The girts can be located in either a bypass or inset position, and the roof slope can be as low as 1/4:12 or as steep as 6:12. Clear span frames are available, or interior columns can be added to provide an economical answer for wide buildings.



A **Lean-To System** provides a cost-efficient means of making a building wider by utilizing a single slope system to extend the roofline of a building or by attaching to a lower level on the building. This is ideal when additional space for office or storage is needed.



Following are general information, terms, and definitions used in conjunction with American Buildings Company systems:

## **Overview of Product**

All American Buildings Company metal building systems are made with structural mill sections or welded built-up plate sections that are designed in accordance with the AISC (American Institute of Steel Construction) *Specification for Structural Steel Buildings, Allowable Stress Design and Plastic Design*, Ninth Edition with Supplement No. 1. Cold-Formed steel structural members are designed in accordance with the 2001 edition of the *North American Specification for the Design of Cold-Formed Steel Structural Members*.

## **Rigid Frames**

**Rigid Frames** are welded, built-up “I” sections or mill-rolled structural sections. The columns and rafters are either uniform depth or tapered. All **Endwall Roof Beams** are made from mill-rolled structural sections or built-up “I” sections. **Endwall Columns** are made from cold-formed “C” sections, mill-rolled structural sections, or built-up “I” sections as required by design. All **Base Plates, Splice Plates, Cap Plates, and Stiffeners** are factory-welded into place on the structural members. All **Base Plates** and **Flanges** are shop-fabricated to include bolt connection holes. Webs are shop-fabricated to include cable brace or rod brace holes and flange brace holes.

## **Secondary Framing**

**Purlins** and **Girts** are cold-formed “Z” or “C” sections with stiffened flanges. They are pre-punched at the factory to provide for field bolting to the primary framing and are either simple or continuous span, as required by design. **Eave Struts** are unequal flange, cold-formed “C” sections. **Base Angles** are supplied so that the base of the wall covering can be attached to the perimeter of the concrete slab with concrete anchors.

## **Diagonal Bracing**

As used in the roof and sidewall, **Diagonal Bracing** is used to remove longitudinal loads (wind, crane, etc.) from the structure. This bracing is furnished to length and equipped with bevel washers, cut washers, and nuts at each end. It consists of rods threaded at each end or galvanized cable with suitable threaded end anchors.

## **General Terms**

**Building Width:** Measurement from outside to outside of sidewall girts

**Shadow Panel Building Width:** Measurement from outside to outside of wall panels

**Building Eave Height:** Measured from the bottom of the base plate on the column to the intersection of the roof and sidewall sheets

**Building Length:** Measurement from outside to outside of endwall girts

**Shadow Panel Building Length:** Measurement from outside to outside of wall panels

**Standard Bay Spacing:** Measurement that is 20', 25', or 30' between frame centerlines (except at end bays), unless otherwise specified, for buildings with Architectural III (A3P), Architectural "V" Rib (AVP) or Long Span III (L3P) wall panels

**Standard Bay Spacing:** Measurement that is 20', 24', or 28' between frame centerlines (except at end bays), unless otherwise specified, for buildings with Shadow Panel (HFP) wall panels

## **Design Policy**

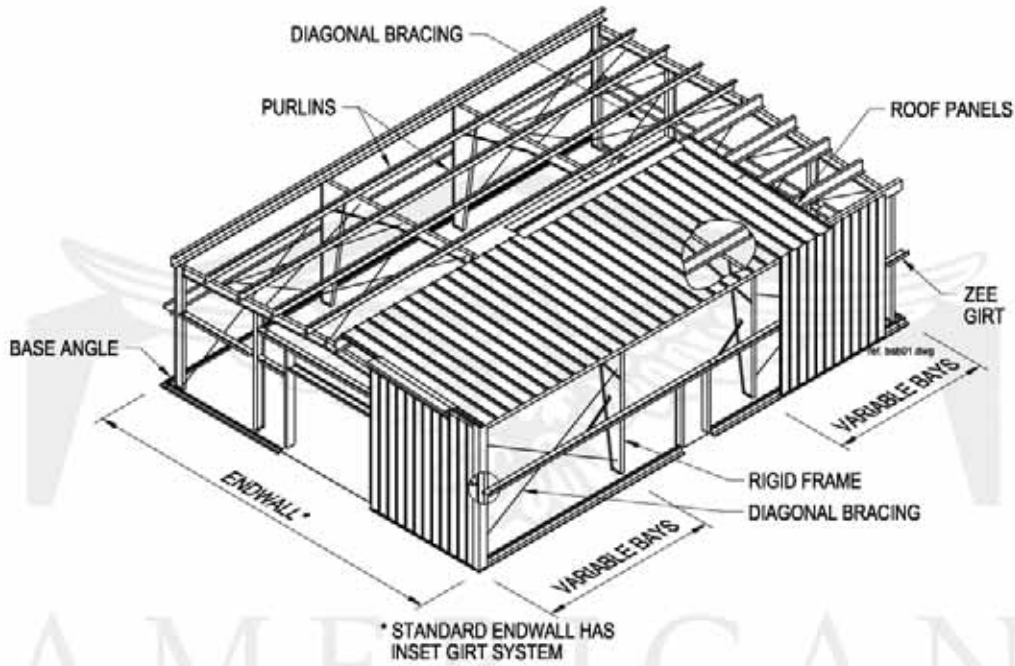
American Buildings Company's standard design practices incorporate serviceability limits from the 2002 MBMA Manual (reprinted from AISC Steel Design Guide Series #3, *Serviceability Design Considerations for Low-Rise Buildings*). Owner requirements that exceed these considerations must be included in the building order documents. The applicable building code may also provide deflection limitations.

## **Design Loads**

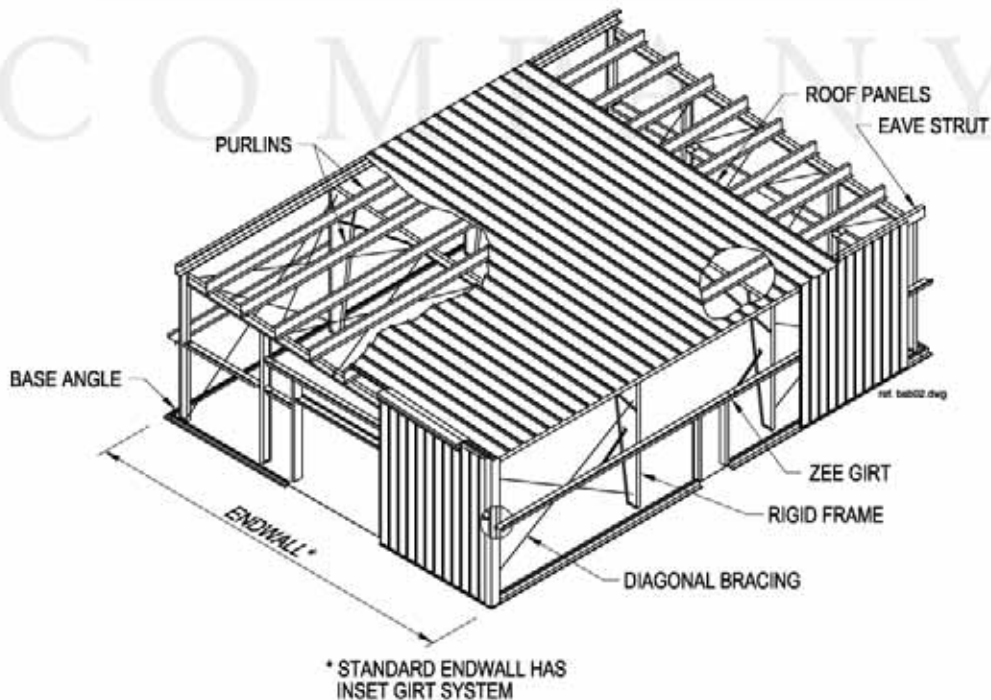
All buildings can be designed to meet the requirements of the following building codes or as required by local jurisdiction:

- Standard Building Code by the Southern Building Code Congress International, Inc.
- The BOCA National Building Code, by the Building Officials and Code Administrators, Inc.
- Uniform Building Code, by the International Conference of Building Officials
- International Building Code, by the International Code Council
- National Building Code of Canada, by the National Research Council of Canada
- Metal Building Systems Manual, by the Metal Building Manufacturers Association

## Gable Tapered Columns-Bypass Girts

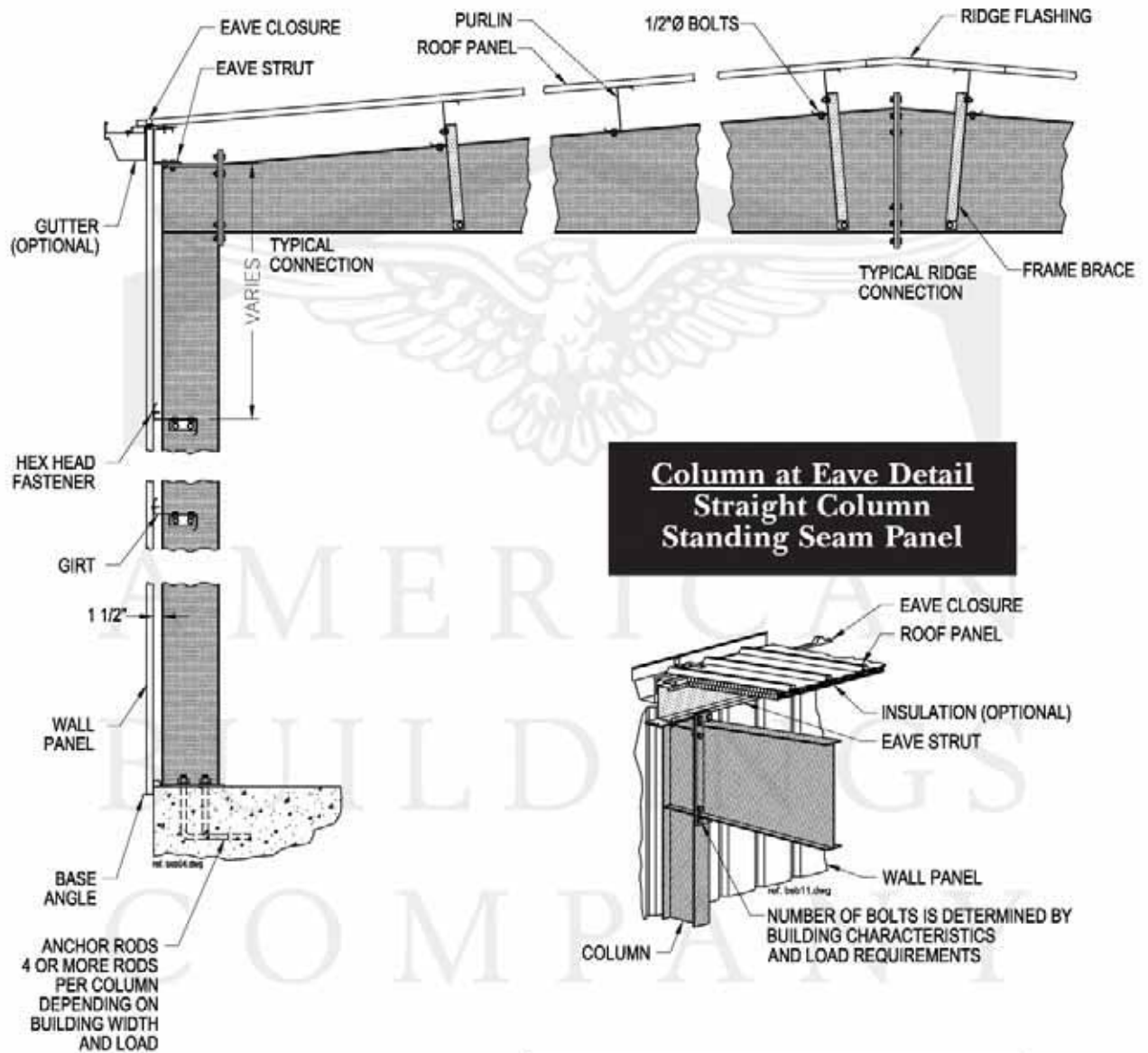


## Single Slope Tapered Columns-Bypass Girts

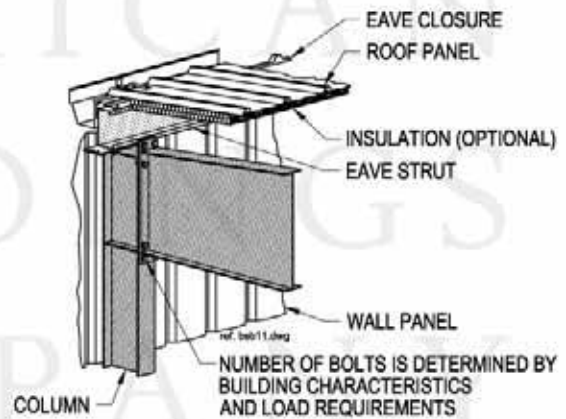


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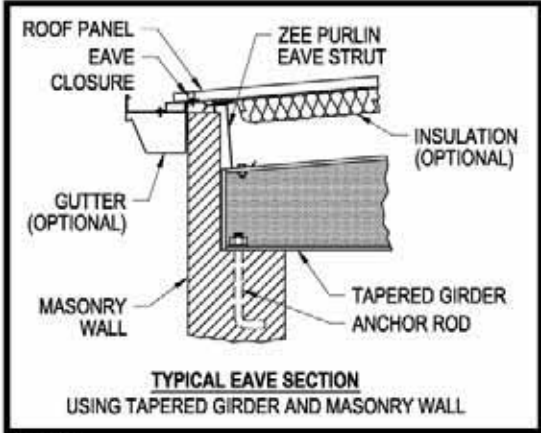
**Gable  
Straight Column-Inset Girts**



**Column at Eave Detail  
Straight Column  
Standing Seam Panel**

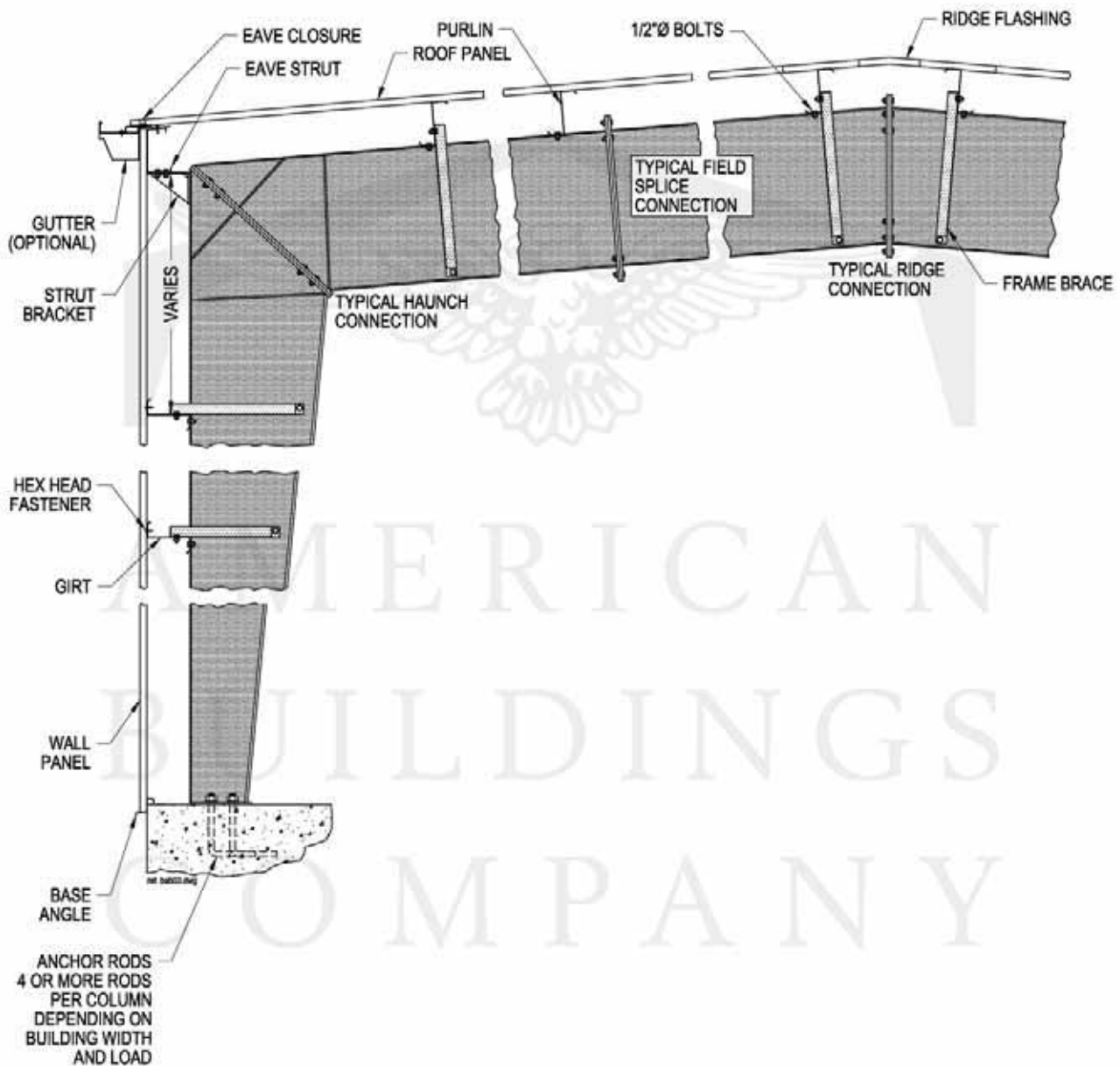


**Tapered Girder at  
Masonry Wall**

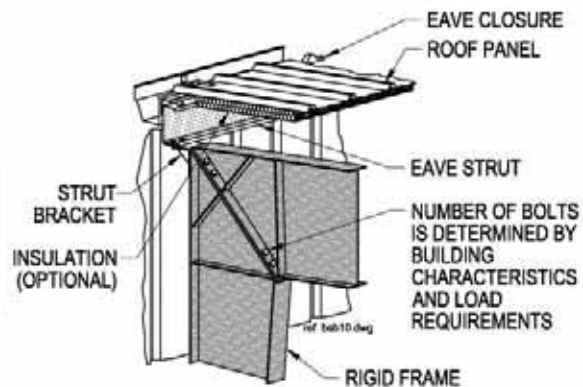




## Gable Tapered Column-Bypass Girts

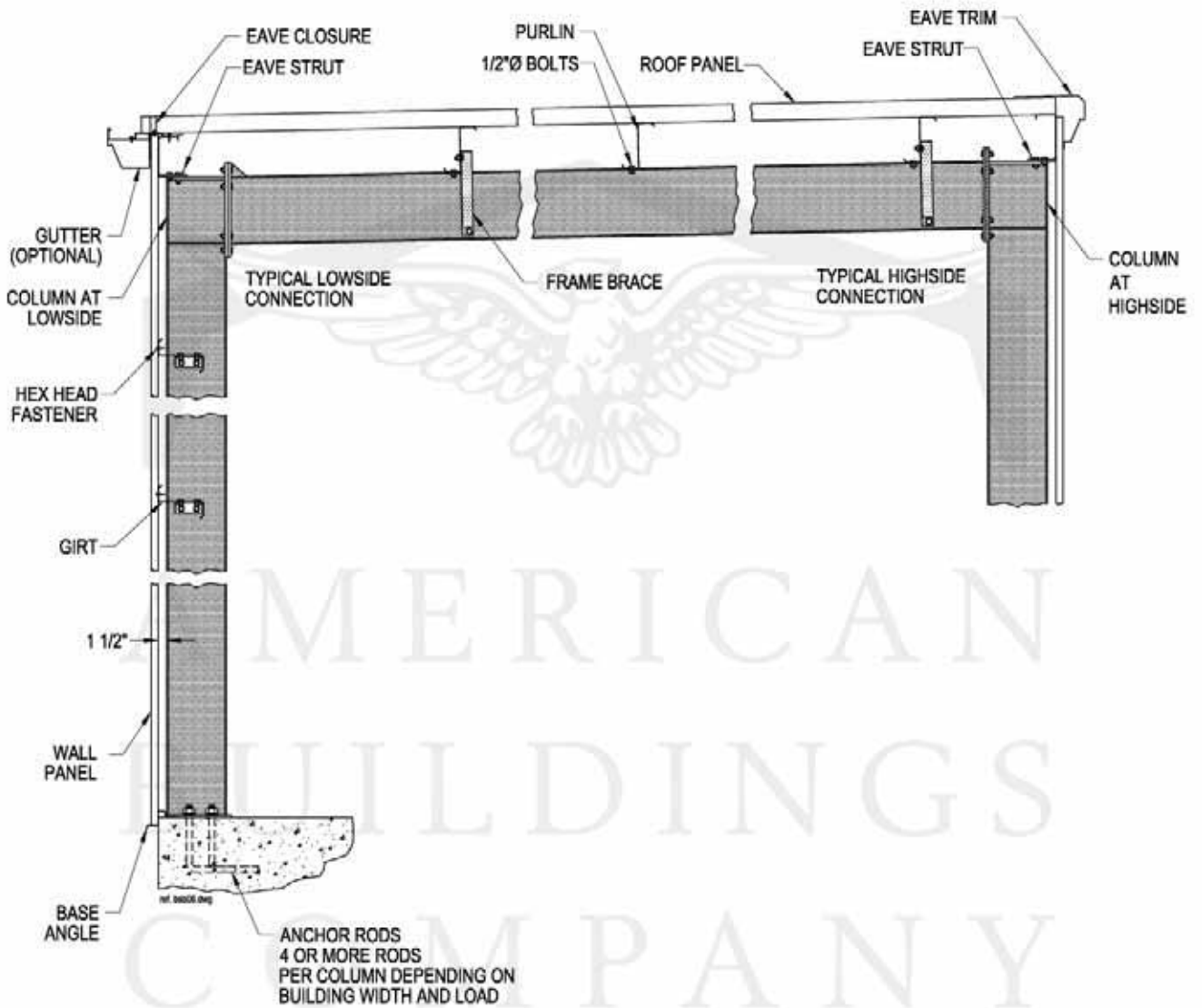


### Column at Eave Detail Tapered Column Standing Seam Panel

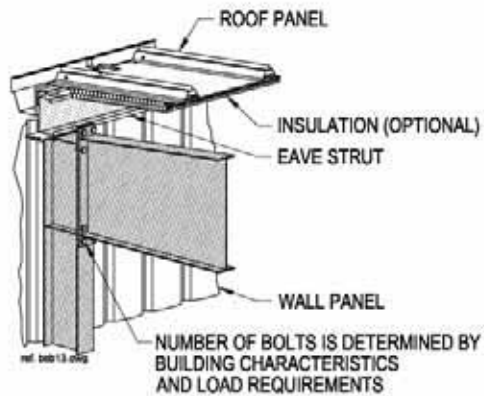


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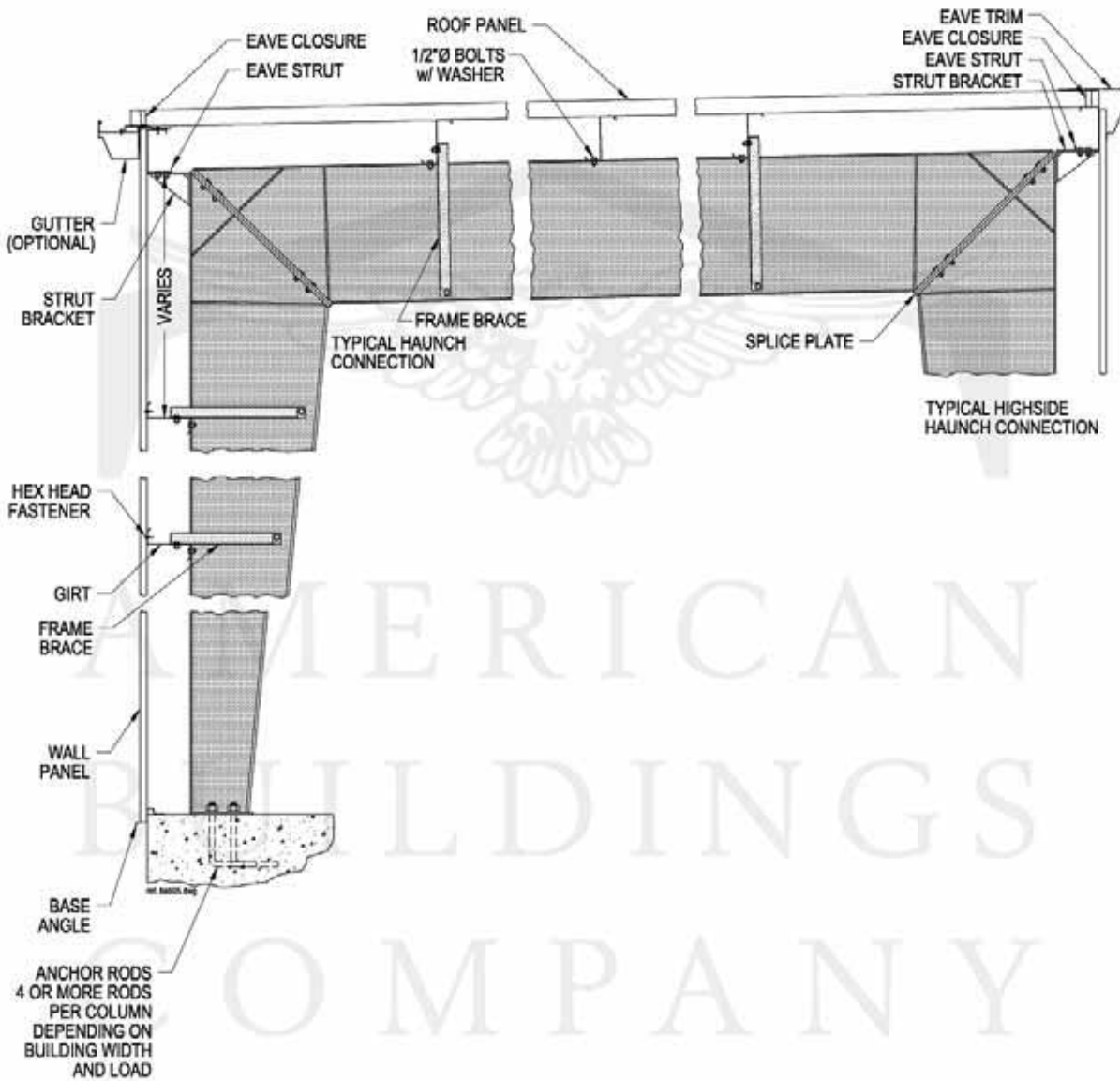
**Single Slope  
Straight Column-Inset Girts**



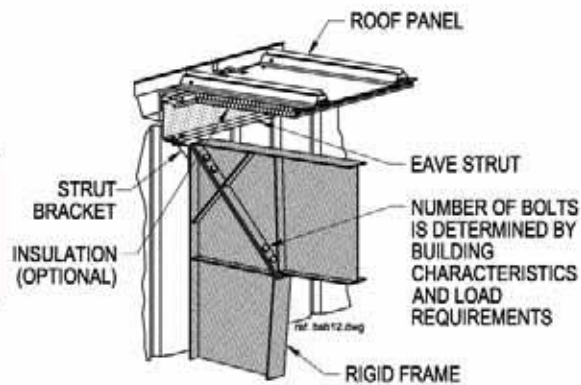
**Column at Eave Detail  
Straight Column  
Standing Seam Panel**



# Single Slope Tapered Column-Bypass Girts

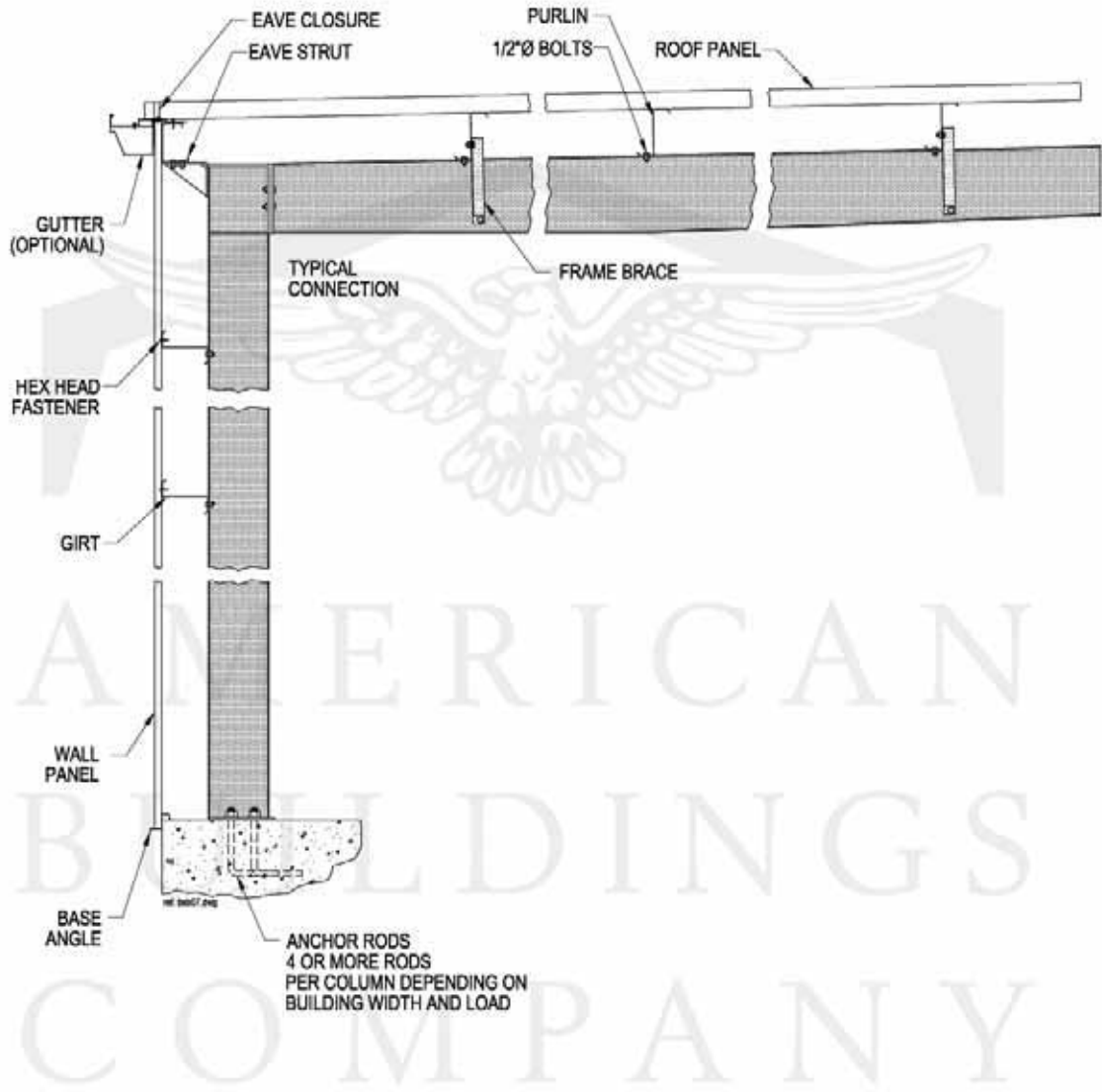


## Column at Eave Detail Tapered Column Standing Seam Panel

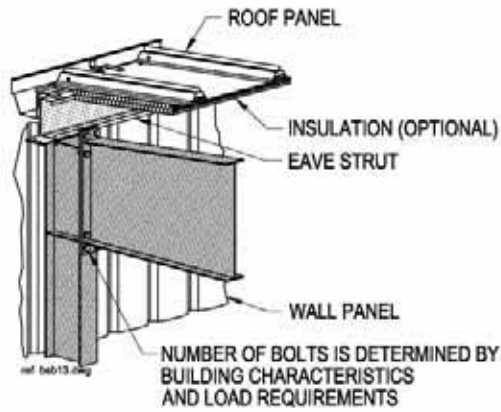


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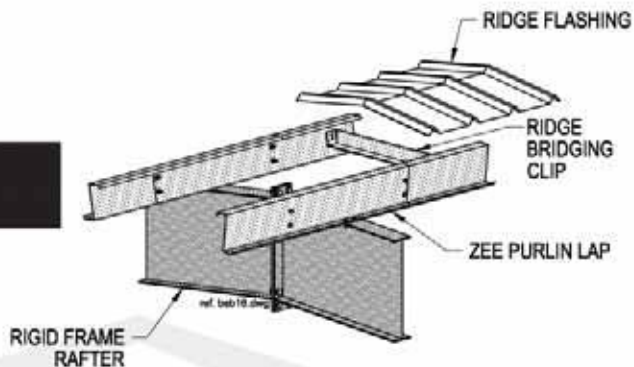
**Lean-To  
Straight Column-Bypass Girts**



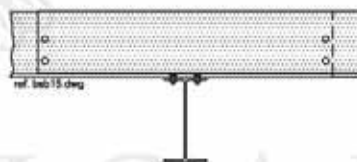
**Column at Eave Detail  
Straight Column  
Standing Seam Panel**



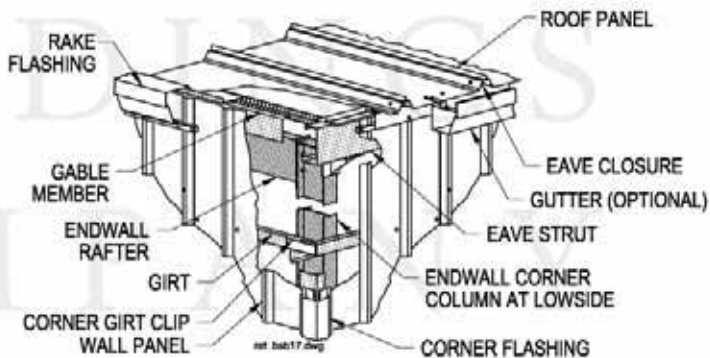
Ridge Detail



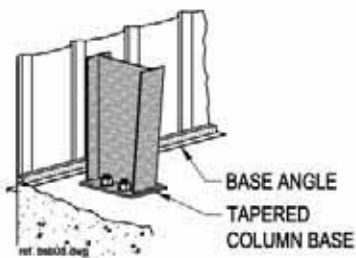
“Z” Purlin Lap Detail



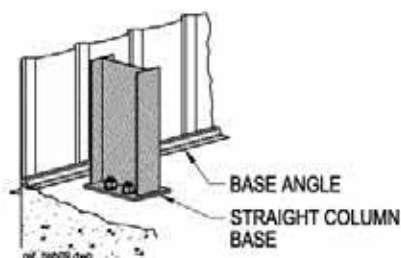
Endwall Corner Detail



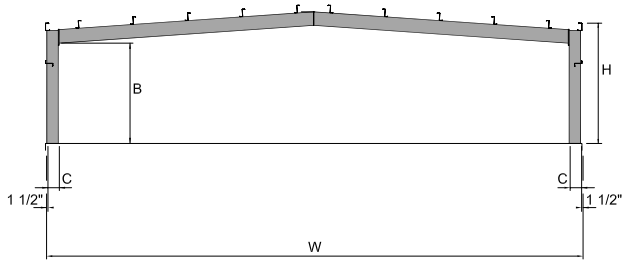
Tapered Column Base



Straight Column Base



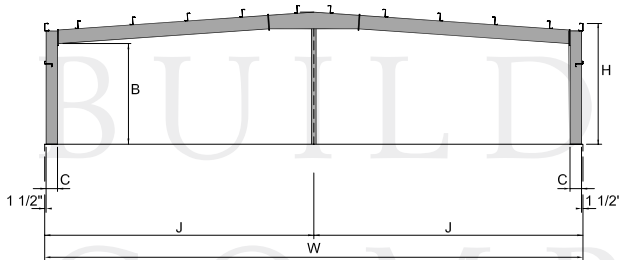




**Roof Slope - 1/4:12**  
**Straight Columns with Inset Girts**

## Clear Span (LP4)

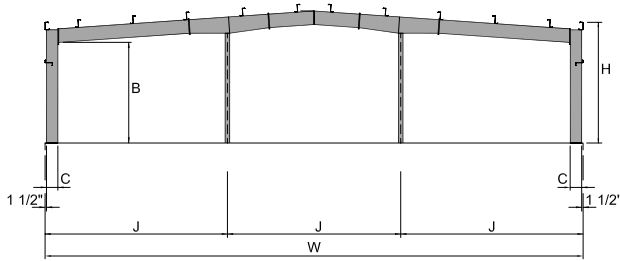
20 PSF Uniform Roof Load				30 PSF Uniform Roof Load				40 PSF Uniform Roof Load			
W	H	B	C	W	H	B	C	W	H	B	C
20	10	8'-4"	0'-11"	20	10	8'-4"	0'-11"	20	10	8'-2"	0'-11"
20	12	10'-4"	0'-11"	20	12	10'-4"	0'-11"	20	12	10'-2"	0'-11"
20	14	12'-4"	0'-11"	20	14	12'-4"	0'-11"	20	14	12'-2"	0'-11"
20	16	14'-4"	0'-11"	20	16	14'-4"	0'-11"	20	16	14'-2"	0'-11"
20	20	17'-9"	0'-11"	20	20	17'-9"	0'-11"	20	20	17'-9"	0'-11"
30	10	8'-2"	0'-11"	30	10	8'-0"	0'-11"	30	10	8'-0"	1'-9"
30	12	10'-2"	0'-11"	30	12	10'-0"	0'-11"	30	12	9'-7"	1'-4"
30	14	12'-2"	0'-11"	30	14	12'-0"	0'-11"	30	14	11'-4"	1'-1"
30	16	14'-0"	0'-11"	30	16	13'-9"	0'-11"	30	16	13'-1"	1'-1"
30	20	18'-0"	0'-11"	30	20	18'-0"	0'-11"	30	20	16'-10"	1'-1"
40	12	9'-7"	0'-11"	40	12	9'-4"	1'-7"	40	12	9'-4"	1'-7"
40	14	11'-7"	0'-11"	40	14	11'-0"	1'-1"	40	14	11'-4"	1'-7"
40	16	13'-7"	0'-11"	40	16	13'-3"	1'-4"	40	16	13'-4"	1'-7"
40	20	18'-0"	1'-1"	40	20	16'-8"	1'-1"	40	20	17'-4"	1'-7"
50	12	9'-1"	1'-4"	50	12	9'-2"	1'-9"	50	12	8'-10"	2'-1"
50	14	11'-1"	1'-4"	50	14	11'-2"	1'-11"	50	14	10'-8"	1'-11"
50	16	13'-1"	1'-4"	50	16	13'-2"	1'-11"	50	16	12'-10"	2'-1"
50	20	17'-3"	1'-4"	50	20	16'-10"	1'-7"	50	20	16'-8"	1'-9"
60	12	9'-4"	1'-7"	60	12	9'-0"	1'-9"	60	12	9'-0"	2'-7"
60	14	11'-4"	1'-7"	60	14	11'-0"	1'-9"	60	14	10'-8"	2'-3"
60	16	13'-6"	1'-7"	60	16	13'-0"	1'-9"	60	16	13'-0"	2'-7"
60	20	17'-4"	1'-7"	60	20	17'-4"	1'-11"	60	20	16'-4"	1'-11"



**Roof Slope - 1/4:12**  
**Straight Columns with Inset Girts**

## 1 Interior Column (LP4M1)

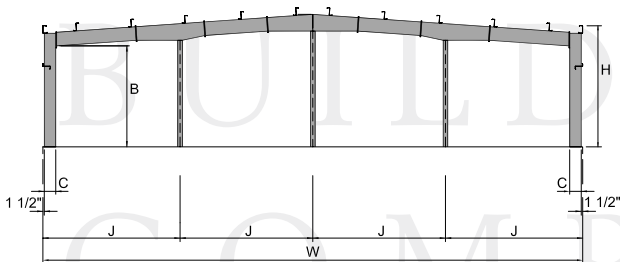
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	J	W	H	B	C	J	W	H	B	C	J
50	12	10'-2"	1'-1"	25'-0"	50	12	10'-0"	1'-4"	25'-0"	50	12	9'-2"	1'-11"	25'-0"
50	14	12'-2"	1'-1"	25'-0"	50	14	12'-0"	1'-4"	25'-0"	50	14	11'-2"	1'-11"	25'-0"
50	16	14'-2"	1'-1"	25'-0"	50	16	14'-0"	1'-4"	25'-0"	50	16	13'-2"	1'-11"	25'-0"
50	20	18'-0"	1'-1"	25'-0"	50	20	18'-0"	1'-4"	25'-0"	50	20	17'-0"	1'-11"	25'-0"
50	24	21'-9"	1'-4"	25'-0"	50	24	21'-2"	1'-11"	25'-0"	50	24	21'-2"	1'-11"	25'-0"
70	12	9'-9"	1'-4"	35'-0"	70	12	9'-2"	1'-9"	35'-0"	70	12	9'-0"	2'-1"	35'-0"
70	14	11'-9"	1'-4"	35'-0"	70	14	11'-2"	1'-9"	35'-0"	70	14	11'-0"	2'-1"	35'-0"
70	16	13'-9"	1'-4"	35'-0"	70	16	13'-2"	1'-9"	35'-0"	70	16	13'-0"	2'-1"	35'-0"
70	20	17'-9"	1'-4"	35'-0"	70	20	17'-2"	1'-9"	35'-0"	70	20	17'-0"	2'-1"	35'-0"
70	24	21'-4"	1'-9"	35'-0"	70	24	21'-0"	2'-1"	35'-0"	70	24	21'-0"	2'-1"	35'-0"
100	14	11'-2"	1'-11"	50'-0"	100	14	10'-10"	2'-3"	50'-0"	100	14	10'-7"	2'-7"	50'-0"
100	16	13'-0"	1'-11"	50'-0"	100	16	12'-10"	2'-3"	50'-0"	100	16	12'-7"	2'-7"	50'-0"
100	20	17'-0"	1'-11"	50'-0"	100	20	16'-10"	2'-3"	50'-0"	100	20	16'-7"	2'-7"	50'-0"
100	24	20'-10"	2'-3"	50'-0"	100	24	20'-7"	2'-7"	50'-0"	100	24	20'-7"	2'-7"	50'-0"
140	14	10'-3"	2'-3"	70'-0"	140	14	9'-10"	2'-7"	70'-0"	140	14	9'-10"	2'-10"	70'-0"
140	16	12'-3"	2'-3"	70'-0"	140	16	11'-10"	2'-7"	70'-0"	140	16	11'-10"	2'-10"	70'-0"
140	20	16'-3"	2'-3"	70'-0"	140	20	15'-10"	2'-7"	70'-0"	140	20	15'-10"	2'-10"	70'-0"
140	24	20'-1"	2'-7"	70'-0"	140	24	19'-10"	2'-10"	70'-0"	140	24	19'-10"	2'-10"	70'-0"
160	14	9'-2"	2'-3"	80'-0"	160	14	9'-7"	2'-7"	80'-0"	160	14	9'-4"	2'-10"	80'-0"
160	16	11'-2"	2'-3"	80'-0"	160	16	11'-7"	2'-7"	80'-0"	160	16	11'-9"	2'-10"	80'-0"
160	20	15'-8"	2'-3"	80'-0"	160	20	15'-4"	2'-7"	80'-0"	160	20	15'-10"	2'-10"	80'-0"
160	24	19'-7"	2'-7"	80'-0"	160	24	19'-10"	2'-10"	80'-0"	160	24	19'-7"	2'-10"	80'-0"



Roof Slope - 1/4:12  
Straight Columns with Inset Girts

## 2 Interior Columns (LP4M2)

20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	J	W	H	B	C	J	W	H	B	C	J
100	14	11'-9"	1'-4"	33'-4"	100	14	11'-4"	1'-9"	33'-4"	100	14	11'-0"	2'-1"	33'-4"
100	16	13'-9"	1'-4"	33'-4"	100	16	13'-4"	1'-9"	33'-4"	100	16	13'-0"	2'-1"	33'-4"
100	20	17'-9"	1'-4"	33'-4"	100	20	17'-4"	1'-9"	33'-4"	100	20	17'-0"	2'-1"	33'-4"
100	24	21'-4"	1'-9"	33'-4"	100	24	21'-0"	2'-1"	33'-4"	100	24	21'-0"	2'-1"	33'-4"
180	14	10'-3"	1'-11"	60'-0"	180	14	10'-3"	2'-3"	60'-0"	180	14	9'-10"	2'-7"	60'-0"
180	16	12'-3"	1'-11"	60'-0"	180	16	12'-3"	2'-3"	60'-0"	180	16	11'-10"	2'-7"	60'-0"
180	20	16'-3"	1'-11"	60'-0"	180	20	16'-3"	2'-3"	60'-0"	180	20	16'-1"	2'-7"	60'-0"
180	24	20'-3"	2'-3"	60'-0"	180	24	20'-1"	2'-7"	60'-0"	180	24	20'-1"	2'-7"	60'-0"
200	14	10'-0"	2'-3"	66'-8"	200	14	10'-1"	2'-7"	66'-8"	200	14	9'-10"	2'-10"	66'-8"
200	16	12'-0"	2'-3"	66'-8"	200	16	12'-1"	2'-7"	66'-8"	200	16	11'-10"	2'-10"	66'-8"
200	20	16'-0"	2'-3"	66'-8"	200	20	16'-1"	2'-7"	66'-8"	200	20	15'-10"	2'-10"	66'-8"
200	24	19'-10"	2'-7"	66'-8"	200	24	19'-10"	2'-10"	66'-8"	200	24	19'-10"	2'-10"	66'-8"
240	14	9'-5"	2'-3"	80'-0"	240	14	9'-10"	2'-7"	80'-0"	240	14	9'-6"	2'-10"	80'-0"
240	16	11'-5"	2'-3"	80'-0"	240	16	11'-9"	2'-7"	80'-0"	240	16	11'-6"	2'-10"	80'-0"
240	20	15'-5"	2'-3"	80'-0"	240	20	15'-6"	2'-7"	80'-0"	240	20	15'-7"	2'-10"	80'-0"
240	24	19'-10"	2'-7"	80'-0"	240	24	19'-7"	2'-10"	80'-0"	240	24	19'-7"	2'-10"	80'-0"

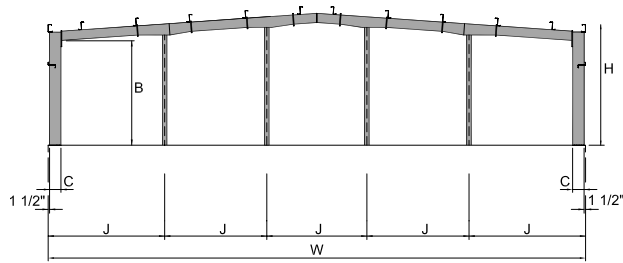


Roof Slope - 1/4:12  
Straight Columns with Inset Girts

## 3 Interior Columns (LP4M3)

20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	J	W	H	B	C	J	W	H	B	C	J
120	14	11'-9"	1'-4"	30'-0"	120	14	11'-6"	1'-7"	30'-0"	120	14	11'-2"	1'-11"	30'-0"
120	16	13'-9"	1'-4"	30'-0"	120	16	13'-6"	1'-7"	30'-0"	120	16	13'-2"	1'-11"	30'-0"
120	20	17'-9"	1'-4"	30'-0"	120	20	17'-6"	1'-7"	30'-0"	120	20	17'-2"	1'-11"	30'-0"
120	24	21'-6"	1'-7"	30'-0"	120	24	21'-2"	1'-11"	30'-0"	120	24	21'-2"	1'-11"	30'-0"
160	14	11'-3"	1'-4"	40'-0"	160	14	11'-2"	1'-9"	40'-0"	160	14	11'-0"	2'-1"	40'-0"
160	16	13'-3"	1'-4"	40'-0"	160	16	13'-2"	1'-9"	40'-0"	160	16	13'-0"	2'-1"	40'-0"
160	20	17'-6"	1'-4"	40'-0"	160	20	17'-2"	1'-9"	40'-0"	160	20	17'-0"	2'-1"	40'-0"
160	24	21'-4"	1'-9"	40'-0"	160	24	21'-0"	2'-1"	40'-0"	160	24	20'-10"	2'-1"	40'-0"
200	14	11'-0"	1'-11"	50'-0"	200	14	10'-10"	2'-3"	50'-0"	200	14	10'-7"	2'-7"	50'-0"
200	16	13'-0"	1'-11"	50'-0"	200	16	12'-10"	2'-3"	50'-0"	200	16	12'-7"	2'-7"	50'-0"
200	20	17'-2"	1'-11"	50'-0"	200	20	16'-10"	2'-3"	50'-0"	200	20	16'-7"	2'-7"	50'-0"
200	24	20'-10"	2'-3"	50'-0"	200	24	20'-7"	2'-7"	50'-0"	200	24	20'-7"	2'-7"	50'-0"
240	14	10'-2"	1'-11"	60'-0"	240	14	9'-11"	2'-3"	60'-0"	240	14	10'-1"	2'-7"	60'-0"
240	16	12'-2"	1'-11"	60'-0"	240	16	11'-11"	2'-3"	60'-0"	240	16	12'-1"	2'-7"	60'-0"
240	20	16'-2"	1'-11"	60'-0"	240	20	15'-11"	2'-3"	60'-0"	240	20	16'-1"	2'-7"	60'-0"
240	24	20'-3"	2'-3"	60'-0"	240	24	20'-1"	2'-7"	60'-0"	240	24	20'-1"	2'-7"	60'-0"
280	14	10'-3"	2'-3"	70'-0"	280	14	10'-1"	2'-7"	70'-0"	280	14	9'-10"	2'-10"	70'-0"
280	16	12'-0"	2'-3"	70'-0"	280	16	12'-1"	2'-7"	70'-0"	280	16	11'-10"	2'-10"	70'-0"
280	20	16'-0"	2'-3"	70'-0"	280	20	16'-1"	2'-7"	70'-0"	280	20	15'-10"	2'-10"	70'-0"
280	24	20'-1"	2'-7"	70'-0"	280	24	19'-10"	2'-10"	70'-0"	280	24	19'-10"	2'-10"	70'-0"
320	14	9'-5"	2'-3"	80'-0"	320	14	9'-7"	2'-7"	80'-0"	320	14	9'-9"	2'-10"	80'-0"
320	16	11'-5"	2'-3"	80'-0"	320	16	11'-9"	2'-7"	80'-0"	320	16	11'-9"	2'-10"	80'-0"
320	20	15'-5"	2'-3"	80'-0"	320	20	15'-4"	2'-7"	80'-0"	320	20	15'-7"	2'-10"	80'-0"
320	24	19'-10"	2'-7"	80'-0"	320	24	19'-7"	2'-10"	80'-0"	320	24	19'-10"	2'-10"	80'-0"

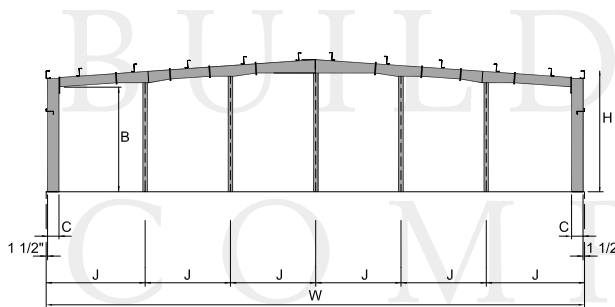




**Roof Slope - 1/4:12**  
**Straight Columns with Inset Girts**

### 4 Interior Columns (LP4M4)

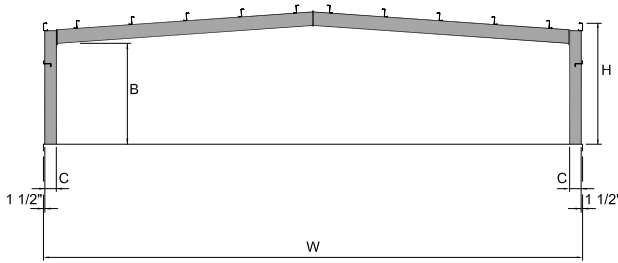
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	J	W	H	B	C	J	W	H	B	C	J
180	14	11'-9"	1'-4"	36'-0"	180	14	11'-4"	1'-9"	36'-0"	180	14	11'-0"	2'-1"	36'-0"
180	16	13'-9"	1'-4"	36'-0"	180	16	13'-4"	1'-9"	36'-0"	180	16	12'-10"	2'-1"	36'-0"
180	20	17'-6"	1'-4"	36'-0"	180	20	17'-2"	1'-9"	36'-0"	180	20	17'-0"	2'-1"	36'-0"
180	24	21'-4"	1'-9"	36'-0"	180	24	21'-0"	2'-1"	36'-0"	180	24	21'-0"	2'-1"	36'-0"
200	14	11'-11"	1'-4"	40'-0"	200	14	11'-0"	1'-9"	40'-0"	200	14	11'-0"	2'-1"	40'-0"
200	16	13'-4"	1'-4"	40'-0"	200	16	13'-0"	1'-9"	40'-0"	200	16	13'-0"	2'-1"	40'-0"
200	20	17'-4"	1'-4"	40'-0"	200	20	17'-0"	1'-9"	40'-0"	200	20	17'-0"	2'-1"	40'-0"
200	24	21'-4"	1'-9"	40'-0"	200	24	21'-0"	2'-1"	40'-0"	200	24	21'-0"	2'-1"	40'-0"
250	14	11'-2"	1'-11"	50'-0"	250	14	10'-10"	2'-3"	50'-0"	250	14	10'-7"	2'-7"	50'-0"
250	16	13'-2"	1'-11"	50'-0"	250	16	12'-6"	2'-3"	50'-0"	250	16	12'-7"	2'-7"	50'-0"
250	20	17'-2"	1'-11"	50'-0"	250	20	16'-10"	2'-3"	50'-0"	250	20	16'-7"	2'-7"	50'-0"
250	24	20'-10"	2'-3"	50'-0"	250	24	20'-7"	2'-7"	50'-0"	250	24	20'-7"	2'-7"	50'-0"
300	14	10'-2"	1'-11"	60'-0"	300	14	9'-11"	2'-3"	60'-0"	300	14	10'-1"	2'-7"	60'-0"
300	16	11'-11"	1'-11"	60'-0"	300	16	11'-11"	2'-3"	60'-0"	300	16	12'-1"	2'-7"	60'-0"
300	20	16'-6"	1'-11"	60'-0"	300	20	15'-11"	2'-3"	60'-0"	300	20	16'-1"	2'-7"	60'-0"
300	24	20'-0"	2'-3"	60'-0"	300	24	20'-1"	2'-7"	60'-0"	300	24	20'-1"	2'-7"	60'-0"
350	14	10'-0"	2'-3"	70'-0"	350	14	10'-1"	2'-7"	70'-0"	350	14	9'-10"	2'-10"	70'-0"
350	16	12'-3"	2'-3"	70'-0"	350	16	12'-1"	2'-7"	70'-0"	350	16	11'-10"	2'-10"	70'-0"
350	20	16'-3"	2'-3"	70'-0"	350	20	16'-1"	2'-7"	70'-0"	350	20	15'-10"	2'-10"	70'-0"
350	24	20'-1"	2'-7"	70'-0"	350	24	19'-10"	2'-10"	70'-0"	350	24	19'-10"	2'-10"	70'-0"
400	14	9'-8"	2'-3"	80'-0"	400	14	9'-6"	2'-7"	80'-0"	400	14	9'-7"	2'-10"	80'-0"
400	16	11'-5"	2'-3"	80'-0"	400	16	11'-10"	2'-7"	80'-0"	400	16	11'-7"	2'-10"	80'-0"
400	20	15'-5"	2'-3"	80'-0"	400	20	15'-9"	2'-7"	80'-0"	400	20	15'-7"	2'-10"	80'-0"
400	24	19'-10"	2'-7"	80'-0"	400	24	19'-10"	2'-10"	80'-0"	400	24	19'-7"	2'-10"	80'-0"



**Roof Slope - 1/4:12**  
**Straight Columns with Inset Girts**

### 5 Interior Columns (LP4M5)

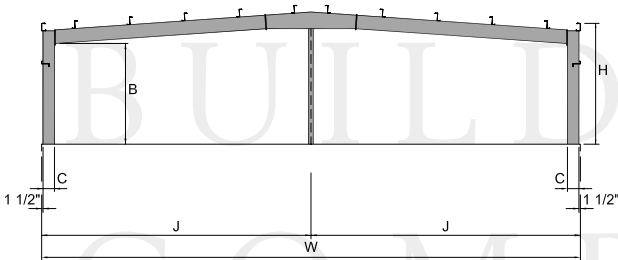
20 PSF Uniform Roof Load				30 PSF Uniform Roof Load				40 PSF Uniform Roof Load			
W	H	B	J	W	H	B	J	W	H	B	J
200	14	11'-9"	33'-4"	200	14	11'-4"	33'-4"	200	14	11'-0"	33'-4"
200	16	13'-9"	33'-4"	200	16	13'-4"	33'-4"	200	16	13'-0"	33'-4"
200	20	17'-9"	33'-4"	200	20	17'-4"	33'-4"	200	20	17'-0"	33'-4"
200	24	21'-4"	33'-4"	200	24	21'-0"	33'-4"	200	24	21'-0"	33'-4"
300	14	11'-0"	50'-0"	300	14	10'-10"	50'-0"	300	14	10'-7"	50'-0"
300	16	13'-0"	50'-0"	300	16	12'-6"	50'-0"	300	16	12'-7"	50'-0"
300	20	17'-0"	50'-0"	300	20	16'-10"	50'-0"	300	20	16'-7"	50'-0"
300	24	20'-10"	50'-0"	300	24	20'-7"	50'-0"	300	24	20'-7"	50'-0"
420	14	10'-0"	70'-0"	420	14	10'-1"	70'-0"	420	14	9'-7"	70'-0"
420	16	12'-0"	70'-0"	420	16	12'-1"	70'-0"	420	16	11'-10"	70'-0"
420	20	16'-0"	70'-0"	420	20	15'-10"	70'-0"	420	20	15'-10"	70'-0"
420	24	20'-1"	70'-0"	420	24	19'-10"	70'-0"	420	24	19'-10"	70'-0"
480	14	9'-2"	80'-0"	480	14	9'-7"	80'-0"	480	14	9'-7"	80'-0"
480	16	11'-5"	80'-0"	480	16	11'-7"	80'-0"	480	16	11'-7"	80'-0"
480	20	15'-5"	80'-0"	480	20	15'-7"	80'-0"	480	20	15'-7"	80'-0"
480	24	19'-10"	80'-0"	480	24	19'-10"	80'-0"	480	24	19'-7"	80'-0"



**Roof Slope - 1/2:12**  
**Straight Columns with Inset Girts**

## Clear Span (LP2)

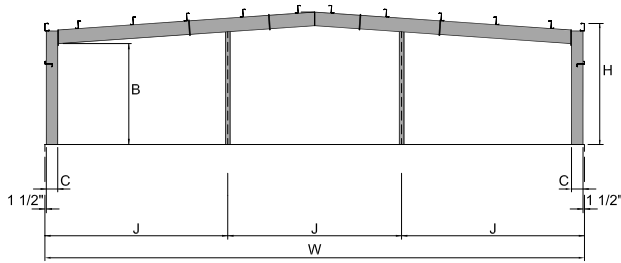
20 PSF Uniform Roof Load				30 PSF Uniform Roof Load				40 PSF Uniform Roof Load			
W	H	B	C	W	H	B	C	W	H	B	C
20	10	8'-5"	0'-11"	20	10	8'-5"	0'-11"	20	10	8'-3"	0'-11"
20	12	10'-5"	0'-11"	20	12	10'-5"	0'-11"	20	12	10'-3"	0'-11"
20	14	12'-5"	0'-11"	20	14	12'-5"	0'-11"	20	14	12'-3"	0'-11"
20	16	14'-5"	0'-11"	20	16	14'-5"	0'-11"	20	16	14'-3"	0'-11"
20	20	17'-10"	0'-11"	20	20	17'-10"	0'-11"	20	20	17'-10"	0'-11"
30	10	8'-1"	0'-11"	30	10	7'-11"	0'-11"	30	10	8'-1"	1'-4"
30	12	10'-1"	0'-11"	30	12	9'-11"	0'-11"	30	12	10'-1"	1'-4"
30	14	12'-1"	0'-11"	30	14	11'-11"	0'-11"	30	14	11'-10"	1'-1"
30	16	13'-11"	0'-11"	30	16	13'-11"	0'-11"	30	16	13'-7"	1'-1"
30	20	18'-3"	1'-1"	30	20	17'-11"	0'-11"	30	20	17'-4"	1'-1"
40	12	9'-10"	1'-1"	40	12	9'-4"	1'-1"	40	12	9'-5"	1'-7"
40	14	11'-5"	0'-11"	40	14	11'-4"	1'-1"	40	14	11'-5"	1'-7"
40	16	13'-2"	0'-11"	40	16	13'-1"	1'-1"	40	16	13'-7"	1'-11"
40	20	17'-10"	1'-1"	40	20	17'-4"	1'-4"	40	20	17'-3"	1'-7"
50	12	9'-4"	1'-4"	50	12	9'-5"	1'-7"	50	12	9'-1"	2'-3"
50	14	11'-4"	1'-4"	50	14	11'-1"	1'-11"	50	14	10'-11"	2'-1"
50	16	13'-4"	1'-4"	50	16	13'-5"	1'-9"	50	16	13'-1"	2'-1"
50	20	17'-10"	1'-7"	50	20	17'-5"	1'-9"	50	20	16'-9"	1'-9"
60	14	11'-5"	1'-7"	60	14	11'-1"	1'-9"	60	14	10'-7"	1'-11"
60	16	13'-5"	1'-7"	60	16	13'-1"	1'-9"	60	16	12'-11"	2'-1"
60	20	17'-5"	1'-7"	60	20	17'-1"	1'-9"	60	20	16'-7"	1'-11"
60	24	21'-7"	1'-11"	60	24	21'-3"	2'-1"	60	24	20'-9"	1'-11"



**Roof Slope - 1/2:12**  
**Straight Columns with Inset Girts**

## 1 Interior Column (LP2M1)

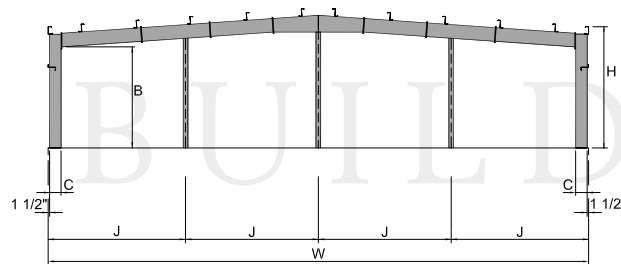
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	J	W	H	B	C	J	W	H	B	C	J
50	12	10'-3"	1'-1"	25'-0"	50	12	10'-1"	1'-4"	25'-0"	50	12	9'-3"	1'-11"	25'-0"
50	14	12'-3"	1'-1"	25'-0"	50	14	12'-1"	1'-4"	25'-0"	50	14	11'-3"	1'-11"	25'-0"
50	16	14'-3"	1'-1"	25'-0"	50	16	14'-1"	1'-4"	25'-0"	50	16	13'-3"	1'-11"	25'-0"
50	20	18'-1"	1'-1"	25'-0"	50	20	18'-1"	1'-4"	25'-0"	50	20	17'-1"	1'-11"	25'-0"
70	12	9'-10"	1'-4"	35'-0"	70	12	9'-3"	1'-9"	35'-0"	70	12	9'-1"	2'-1"	35'-0"
70	14	11'-10"	1'-4"	35'-0"	70	14	11'-3"	1'-9"	35'-0"	70	14	11'-1"	2'-1"	35'-0"
70	16	13'-10"	1'-4"	35'-0"	70	16	13'-3"	1'-9"	35'-0"	70	16	13'-1"	2'-1"	35'-0"
70	20	17'-10"	1'-4"	35'-0"	70	20	17'-3"	1'-9"	35'-0"	70	20	17'-1"	2'-1"	35'-0"
70	24	21'-5"	1'-9"	35'-0"	70	24	21'-1"	2'-1"	35'-0"	70	24	21'-1"	2'-1"	35'-0"
100	14	11'-1"	1'-11"	50'-0"	100	14	10'-11"	2'-3"	50'-0"	100	14	10'-7"	2'-7"	50'-0"
100	16	13'-1"	1'-11"	50'-0"	100	16	12'-11"	2'-3"	50'-0"	100	16	12'-7"	2'-7"	50'-0"
100	20	17'-3"	1'-11"	50'-0"	100	20	16'-11"	2'-3"	50'-0"	100	20	16'-7"	2'-7"	50'-0"
100	24	20'-11"	2'-3"	50'-0"	100	24	20'-7"	2'-7"	50'-0"	100	24	20'-7"	2'-7"	50'-0"
140	14	10'-4"	2'-3"	70'-0"	140	14	10'-1"	2'-7"	70'-0"	140	14	9'-10"	2'-10"	70'-0"
140	16	12'-4"	2'-3"	70'-0"	140	16	12'-1"	2'-7"	70'-0"	140	16	11'-7"	2'-10"	70'-0"
140	20	16'-4"	2'-3"	70'-0"	140	20	16'-1"	2'-7"	70'-0"	140	20	15'-10"	2'-10"	70'-0"
140	24	19'-10"	2'-7"	70'-0"	140	24	19'-10"	2'-10"	70'-0"	140	24	19'-10"	2'-10"	70'-0"
160	14	9'-6"	2'-3"	80'-0"	160	14	9'-7"	2'-7"	80'-0"	160	14	9'-7"	2'-10"	80'-0"
160	16	11'-6"	2'-3"	80'-0"	160	16	11'-7"	2'-7"	80'-0"	160	16	11'-10"	2'-10"	80'-0"
160	20	15'-9"	2'-3"	80'-0"	160	20	15'-7"	2'-7"	80'-0"	160	20	15'-7"	2'-10"	80'-0"
160	24	19'-10"	2'-7"	80'-0"	160	24	19'-10"	2'-10"	80'-0"	160	24	19'-10"	2'-10"	80'-0"



**Roof Slope - 1/2:12**  
**Straight Columns with Inset Girts**

## 2 Interior Columns (LP2M2)

20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	J	W	H	B	C	J	W	H	B	C	J
100	14	11'-10"	1'-4"	33'-4"	100	14	11'-5"	1'-9"	33'-4"	100	14	11'-1"	2'-1"	33'-4"
100	16	13'-10"	1'-4"	33'-4"	100	16	13'-5"	1'-9"	33'-4"	100	16	13'-1"	2'-1"	33'-4"
100	20	17'-10"	1'-4"	33'-4"	100	20	17'-5"	1'-9"	33'-4"	100	20	17'-1"	2'-1"	33'-4"
100	24	21'-5"	1'-9"	33'-4"	100	24	21'-1"	2'-1"	33'-4"	100	24	21'-1"	2'-1"	33'-4"
120	14	11'-5"	1'-4"	40'-0"	120	14	11'-1"	1'-9"	40'-0"	120	14	11'-1"	2'-1"	40'-0"
120	16	13'-5"	1'-4"	40'-0"	120	16	13'-1"	1'-9"	40'-0"	120	16	13'-1"	2'-1"	40'-0"
120	20	17'-5"	1'-4"	40'-0"	120	20	17'-1"	1'-9"	40'-0"	120	20	17'-1"	2'-1"	40'-0"
120	24	21'-5"	1'-9"	40'-0"	120	24	21'-1"	2'-1"	40'-0"	120	24	21'-1"	2'-1"	40'-0"
180	14	10'-7"	1'-11"	60'-0"	180	14	10'-4"	2'-3"	60'-0"	180	14	10'-1"	2'-7"	60'-0"
180	16	12'-7"	1'-11"	60'-0"	180	16	12'-4"	2'-3"	60'-0"	180	16	12'-1"	2'-7"	60'-0"
180	20	16'-7"	1'-11"	60'-0"	180	20	16'-4"	2'-3"	60'-0"	180	20	16'-1"	2'-7"	60'-0"
180	24	20'-4"	2'-3"	60'-0"	180	24	20'-1"	2'-7"	60'-0"	180	24	20'-1"	2'-7"	60'-0"
240	14	10'-1"	2'-3"	80'-0"	240	14	10'-1"	2'-7"	80'-0"	240	14	9'-10"	2'-10"	80'-0"
240	16	12'-1"	2'-3"	80'-0"	240	16	12'-1"	2'-7"	80'-0"	240	16	11'-10"	2'-10"	80'-0"
240	20	16'-1"	2'-3"	80'-0"	240	20	15'-10"	2'-7"	80'-0"	240	20	15'-10"	2'-10"	80'-0"
240	24	20'-1"	2'-7"	80'-0"	240	24	19'-10"	2'-10"	80'-0"	240	24	19'-4"	2'-10"	80'-0"

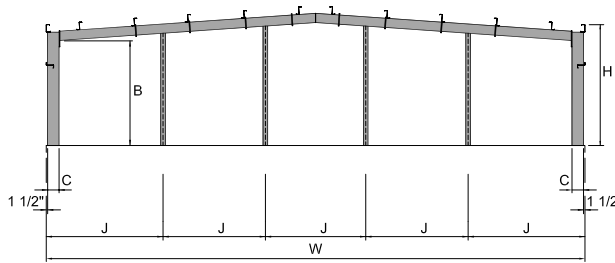


**Roof Slope - 1/2:12**  
**Straight Columns with Inset Girts**

## 3 Interior Columns (LP2M3)

20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	J	W	H	B	C	J	W	H	B	C	J
120	14	11'-10"	1'-4"	30'-0"	120	14	11'-7"	1'-7"	30'-0"	120	14	11'-3"	1'-11"	30'-0"
120	16	13'-10"	1'-4"	30'-0"	120	16	13'-7"	1'-7"	30'-0"	120	16	13'-3"	1'-11"	30'-0"
120	20	17'-10"	1'-4"	30'-0"	120	20	17'-7"	1'-7"	30'-0"	120	20	17'-3"	1'-11"	30'-0"
120	24	21'-7"	1'-7"	30'-0"	120	24	21'-3"	1'-11"	30'-0"	120	24	21'-3"	1'-11"	30'-0"
160	14	11'-4"	1'-4"	40'-0"	160	14	11'-3"	1'-9"	40'-0"	160	14	11'-1"	2'-1"	40'-0"
160	16	13'-7"	1'-4"	40'-0"	160	16	13'-3"	1'-9"	40'-0"	160	16	13'-1"	2'-1"	40'-0"
160	20	17'-7"	1'-4"	40'-0"	160	20	17'-3"	1'-9"	40'-0"	160	20	17'-1"	2'-1"	40'-0"
160	24	21'-3"	1'-9"	40'-0"	160	24	21'-1"	2'-1"	40'-0"	160	24	21'-1"	2'-1"	40'-0"
200	14	11'-1"	1'-11"	50'-0"	200	14	10'-4"	2'-3"	50'-0"	200	14	10'-7"	2'-7"	50'-0"
200	16	13'-1"	1'-11"	50'-0"	200	16	12'-11"	2'-3"	50'-0"	200	16	12'-7"	2'-7"	50'-0"
200	20	17'-3"	1'-11"	50'-0"	200	20	16'-11"	2'-3"	50'-0"	200	20	16'-7"	2'-7"	50'-0"
200	24	20'-7"	2'-3"	50'-0"	200	24	20'-7"	2'-7"	50'-0"	200	24	20'-7"	2'-7"	50'-0"
240	14	10'-7"	1'-11"	60'-0"	240	14	10'-0"	2'-3"	60'-0"	240	14	10'-1"	2'-7"	60'-0"
240	16	12'-0"	1'-11"	60'-0"	240	16	12'-0"	2'-3"	60'-0"	240	16	12'-1"	2'-7"	60'-0"
240	20	16'-0"	1'-11"	60'-0"	240	20	16'-0"	2'-3"	60'-0"	240	20	16'-1"	2'-7"	60'-0"
240	24	20'-1"	2'-3"	60'-0"	240	24	20'-1"	2'-7"	60'-0"	240	24	20'-1"	2'-7"	60'-0"
280	14	10'-1"	2'-3"	70'-0"	280	14	9'-10"	2'-7"	70'-0"	280	14	9'-10"	2'-10"	70'-0"
280	16	12'-4"	2'-3"	70'-0"	280	16	12'-1"	2'-7"	70'-0"	280	16	11'-7"	2'-10"	70'-0"
280	20	16'-4"	2'-3"	70'-0"	280	20	15'-10"	2'-7"	70'-0"	280	20	15'-10"	2'-10"	70'-0"
280	24	20'-1"	2'-7"	70'-0"	280	24	19'-10"	2'-10"	70'-0"	280	24	19'-10"	2'-10"	70'-0"
320	14	9'-6"	2'-3"	80'-0"	320	14	9'-7"	2'-7"	80'-0"	320	14	9'-10"	2'-10"	80'-0"
320	16	11'-9"	2'-3"	80'-0"	320	16	11'-7"	2'-7"	80'-0"	320	16	11'-10"	2'-10"	80'-0"
320	20	15'-9"	2'-3"	80'-0"	320	20	15'-4"	2'-7"	80'-0"	320	20	15'-7"	2'-10"	80'-0"
320	24	19'-10"	2'-7"	80'-0"	320	24	19'-7"	2'-10"	80'-0"	320	24	19'-10"	2'-10"	80'-0"

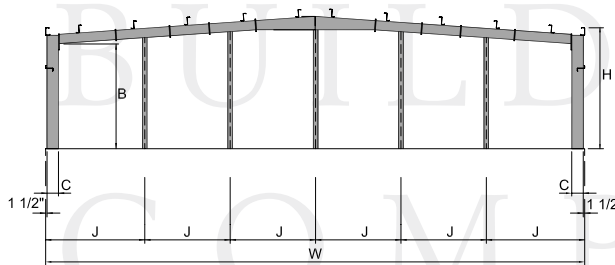
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**Roof Slope - 1/2:12**  
**Straight Columns with Inset Girts**

## 4 Interior Columns (LP2M4)

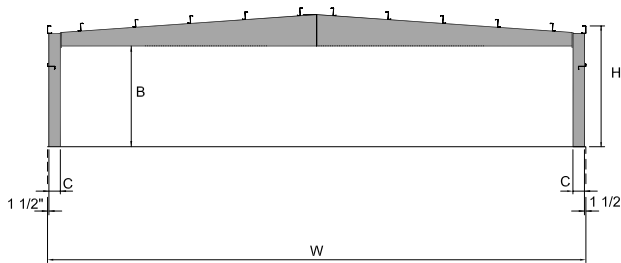
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	J	W	H	B	C	J	W	H	B	C	J
180	14	11'-10"	1'-4"	36'-0"	180	14	11'-3"	1'-9"	36'-0"	180	14	11'-1"	2'-1"	36'-0"
180	16	13'-7"	1'-4"	36'-0"	180	16	13'-5"	1'-9"	36'-0"	180	16	12'-11"	2'-1"	36'-0"
180	20	17'-7"	1'-4"	36'-0"	180	20	17'-5"	1'-9"	36'-0"	180	20	17'-1"	2'-1"	36'-0"
180	24	21'-5"	1'-9"	36'-0"	180	24	21'-1"	2'-1"	36'-0"	180	24	21'-1"	2'-1"	36'-0"
200	14	11'-2"	1'-4"	40'-0"	200	14	11'-1"	1'-9"	40'-0"	200	14	11'-1"	2'-1"	40'-0"
200	16	13'-2"	1'-4"	40'-0"	200	16	13'-1"	1'-9"	40'-0"	200	16	13'-1"	2'-1"	40'-0"
200	20	17'-5"	1'-4"	40'-0"	200	20	17'-1"	1'-9"	40'-0"	200	20	17'-1"	2'-1"	40'-0"
200	24	21'-5"	1'-9"	40'-0"	200	24	21'-1"	2'-1"	40'-0"	200	24	21'-1"	2'-1"	40'-0"
250	14	11'-1"	1'-11"	50'-0"	250	14	10'-11"	2'-3"	50'-0"	250	14	10'-7"	2'-7"	50'-0"
250	16	13'-3"	1'-11"	50'-0"	250	16	12'-7"	2'-3"	50'-0"	250	16	12'-7"	2'-7"	50'-0"
250	20	17'-1"	1'-11"	50'-0"	250	20	16'-11"	2'-3"	50'-0"	250	20	16'-7"	2'-7"	50'-0"
250	24	20'-11"	2'-3"	50'-0"	250	24	20'-7"	2'-7"	50'-0"	250	24	20'-7"	2'-7"	50'-0"
300	14	10'-3"	1'-11"	60'-0"	300	14	10'-0"	2'-3"	60'-0"	300	14	10'-1"	2'-7"	60'-0"
300	16	12'-3"	1'-11"	60'-0"	300	16	12'-0"	2'-3"	60'-0"	300	16	12'-1"	2'-7"	60'-0"
300	20	16'-3"	1'-11"	60'-0"	300	20	16'-0"	2'-3"	60'-0"	300	20	16'-1"	2'-7"	60'-0"
300	24	20'-4"	2'-3"	60'-0"	300	24	20'-1"	2'-7"	60'-0"	300	24	20'-1"	2'-7"	60'-0"
350	14	10'-4"	2'-3"	70'-0"	350	14	9'-10"	2'-7"	70'-0"	350	14	9'-10"	2'-10"	70'-0"
350	16	12'-4"	2'-3"	70'-0"	350	16	11'-10"	2'-7"	70'-0"	350	16	11'-7"	2'-10"	70'-0"
350	20	16'-1"	2'-3"	70'-0"	350	20	16'-1"	2'-7"	70'-0"	350	20	15'-10"	2'-10"	70'-0"
350	24	20'-1"	2'-7"	70'-0"	350	24	19'-10"	2'-10"	70'-0"	350	24	19'-10"	2'-10"	70'-0"
400	14	9'-9"	2'-3"	80'-0"	400	14	9'-7"	2'-7"	80'-0"	400	14	9'-10"	2'-10"	80'-0"
400	16	11'-9"	2'-3"	80'-0"	400	16	11'-10"	2'-7"	80'-0"	400	16	11'-7"	2'-10"	80'-0"
400	20	15'-9"	2'-3"	80'-0"	400	20	15'-7"	2'-7"	80'-0"	400	20	15'-7"	2'-10"	80'-0"
400	24	19'-7"	2'-7"	80'-0"	400	24	19'-4"	2'-10"	80'-0"	400	24	19'-7"	2'-10"	80'-0"



**Roof Slope - 1/2:12**  
**Straight Columns with Inset Girts**

## 5 Interior Columns (LP2M5)

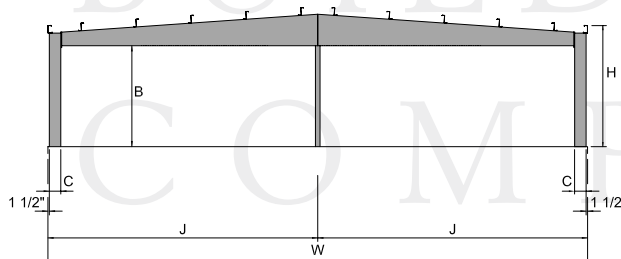
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	J	W	H	B	C	J	W	H	B	C	J
200	14	11'-10"	1'-4"	33'-4"	200	14	11'-5"	1'-9"	33'-4"	200	14	11'-1"	2'-1"	33'-4"
200	16	13'-10"	1'-4"	33'-4"	200	16	13'-5"	1'-9"	33'-4"	200	16	13'-1"	2'-1"	33'-4"
200	20	17'-10"	1'-4"	33'-4"	200	20	17'-5"	1'-9"	33'-4"	200	20	17'-1"	2'-1"	33'-4"
200	24	21'-5"	1'-9"	33'-4"	200	24	21'-1"	2'-1"	33'-4"	200	24	21'-1"	2'-1"	33'-4"
300	14	11'-3"	1'-11"	50'-0"	300	14	10'-7"	2'-3"	50'-0"	300	14	10'-7"	2'-7"	50'-0"
300	16	13'-3"	1'-11"	50'-0"	300	16	12'-7"	2'-3"	50'-0"	300	16	12'-7"	2'-7"	50'-0"
300	20	17'-3"	1'-11"	50'-0"	300	20	16'-11"	2'-3"	50'-0"	300	20	16'-7"	2'-7"	50'-0"
300	24	20'-11"	2'-3"	50'-0"	300	24	20'-7"	2'-7"	50'-0"	300	24	20'-7"	2'-7"	50'-0"
420	14	10'-1"	2'-3"	70'-0"	420	14	10'-1"	2'-7"	70'-0"	420	14	9'-10"	2'-10"	70'-0"
420	16	12'-1"	2'-3"	70'-0"	420	16	12'-1"	2'-7"	70'-0"	420	16	11'-10"	2'-10"	70'-0"
420	20	16'-1"	2'-3"	70'-0"	420	20	16'-1"	2'-7"	70'-0"	420	20	15'-10"	2'-10"	70'-0"
420	24	20'-1"	2'-7"	70'-0"	420	24	19'-10"	2'-10"	70'-0"	420	24	19'-10"	2'-10"	70'-0"
480	14	10'-0"	2'-3"	80'-0"	480	14	9'-7"	2'-7"	80'-0"	480	14	9'-10"	2'-10"	80'-0"
480	16	11'-9"	2'-3"	80'-0"	480	16	11'-7"	2'-7"	80'-0"	480	16	11'-10"	2'-10"	80'-0"
480	20	16'-0"	2'-3"	80'-0"	480	20	15'-7"	2'-7"	80'-0"	480	20	15'-7"	2'-10"	80'-0"
480	24	20'-1"	2'-7"	80'-0"	480	24	19'-7"	2'-10"	80'-0"	480	24	19'-10"	2'-10"	80'-0"



**Roof Slope - 1:12**  
**Straight Columns with Inset Girts**

## Clear Span (GC)

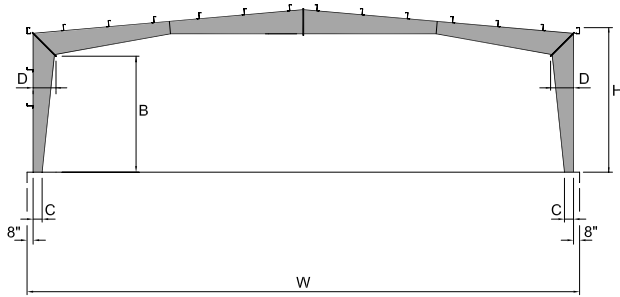
20 PSF Uniform Roof Load				30 PSF Uniform Roof Load				40 PSF Uniform Roof Load			
W	H	B	C	W	H	B	C	W	H	B	C
30	10	8'-3"	1'-1"	30	10	8'-1"	0'-11"	30	10	8'-2"	1'-4"
30	12	10'-3"	1'-1"	30	12	10'-1"	0'-11"	30	12	9'-7"	1'-1"
30	14	12'-3"	1'-1"	30	14	12'-1"	0'-11"	30	14	11'-7"	1'-1"
30	16	14'-3"	1'-1"	30	16	14'-1"	0'-11"	30	16	13'-7"	1'-1"
30	20	17'-11"	0'-11"	30	20	18'-1"	0'-11"	30	20	17'-7"	1'-1"
50	12	9'-11"	1'-7"	50	12	9'-11"	1'-9"	50	12	9'-8"	2'-1"
50	14	11'-11"	1'-7"	50	14	11'-11"	1'-9"	50	14	11'-8"	2'-1"
50	16	13'-11"	1'-7"	50	16	13'-11"	1'-9"	50	16	13'-6"	1'-11"
50	20	17'-5"	1'-4"	50	20	17'-11"	1'-9"	50	20	17'-8"	2'-1"
70	14	11'-7"	2'-3"	70	14	11'-5"	2'-7"	70	14	11'-3"	2'-10"
70	16	13'-4"	2'-1"	70	16	13'-1"	2'-3"	70	16	13'-3"	2'-10"
70	20	17'-4"	2'-1"	70	20	16'-10"	2'-1"	70	20	17'-3"	2'-10"
70	24	21'-2"	2'-1"	70	24	21'-3"	2'-10"	70	24	21'-3"	2'-10"
80	16	12'-7"	2'-3"	80	16	13'-1"	2'-10"	80	16	13'-1"	3'-1"
80	20	16'-3"	2'-1"	80	20	16'-10"	2'-7"	80	20	17'-1"	3'-1"
80	24	20'-10"	2'-7"	80	24	20'-1"	2'-3"	80	24	20'-7"	2'-7"



**Roof Slope - 1:12**  
**Straight Columns with Inset Girts**

## 1 Interior Column (GCM1)

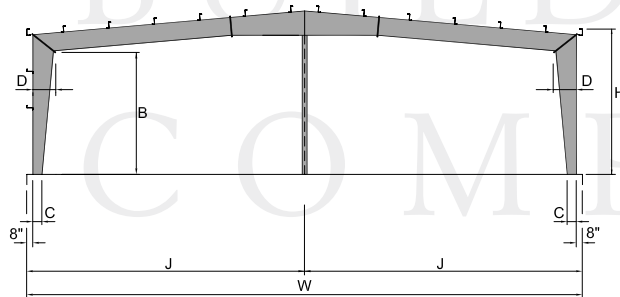
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	J	W	H	B	C	J	W	H	B	C	J
70	10	7'-11"	1'-7"	35'-0"	70	10	7'-6"	1'-11"	35'-0"	70	10	7'-3"	2'-10"	35'-0"
70	12	9'-11"	1'-7"	35'-0"	70	12	9'-6"	1'-11"	35'-0"	70	12	9'-3"	2'-10"	35'-0"
70	14	11'-11"	1'-7"	35'-0"	70	14	11'-6"	1'-11"	35'-0"	70	14	11'-3"	2'-10"	35'-0"
70	16	13'-11"	1'-9"	35'-0"	70	16	13'-6"	1'-11"	35'-0"	70	16	13'-3"	2'-10"	35'-0"
70	20	17'-9"	1'-7"	35'-0"	70	20	17'-6"	1'-11"	35'-0"	70	20	17'-0"	2'-7"	35'-0"
70	24	21'-6"	1'-11"	35'-0"	70	24	21'-3"	2'-7"	35'-0"	70	24	21'-0"	2'-7"	35'-0"
100	10	7'-4"	2'-1"	50'-0"	100	10	7'-1"	2'-7"	50'-0"	100	10	6'-9"	3'-1"	50'-0"
100	12	9'-4"	2'-1"	50'-0"	100	12	9'-1"	2'-7"	50'-0"	100	12	8'-6"	2'-10"	50'-0"
100	14	11'-4"	2'-1"	50'-0"	100	14	11'-1"	2'-7"	50'-0"	100	14	10'-6"	2'-10"	50'-0"
100	16	13'-4"	2'-1"	50'-0"	100	16	13'-1"	2'-7"	50'-0"	100	16	12'-6"	2'-10"	50'-0"
100	20	17'-4"	2'-1"	50'-0"	100	20	17'-1"	2'-7"	50'-0"	100	20	16'-6"	2'-10"	50'-0"
100	24	21'-1"	2'-7"	50'-0"	100	24	20'-9"	2'-10"	50'-0"	100	24	20'-6"	2'-10"	50'-0"



Roof Slope - 1:12  
Tapered Columns with Bypass Girts

Clear Span (LRF)

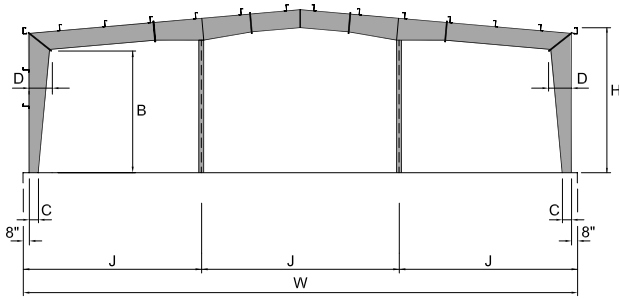
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	D	W	H	B	C	D	W	H	B	C	D
30	10	7'-11"	0'-11"	1'-3"	30	10	7'-8"	0'-11"	1'-6"	30	10	7'-11"	0'-11"	1'-3"
30	12	9'-11"	0'-11"	1'-3"	30	12	9'-8"	0'-11"	1'-6"	30	12	9'-11"	0'-11"	1'-3"
30	14	11'-11"	0'-11"	1'-3"	30	14	11'-8"	0'-11"	1'-6"	30	14	11'-11"	0'-11"	1'-3"
30	16	13'-11"	0'-11"	1'-3"	30	16	13'-8"	0'-11"	1'-6"	30	16	13'-11"	0'-11"	1'-3"
30	20	17'-11"	0'-11"	1'-3"	30	20	17'-8"	0'-11"	1'-6"	30	20	17'-11"	0'-11"	1'-3"
30	24	21'-8"	0'-11"	1'-6"	30	24	21'-8"	0'-11"	1'-6"	30	24	21'-11"	0'-11"	1'-3"
30	30	27'-4"	0'-11"	1'-10"	30	30	27'-4"	0'-11"	1'-10"	30	30	27'-4"	0'-11"	1'-10"
50	12	9'-4"	0'-11"	1'-10"	50	12	9'-2"	0'-11"	2'-0"	50	12	9'-1"	0'-11"	2'-2"
50	14	11'-4"	0'-11"	1'-10"	50	14	11'-2"	0'-11"	2'-0"	50	14	11'-1"	0'-11"	2'-2"
50	16	13'-4"	0'-11"	1'-10"	50	16	13'-2"	0'-11"	2'-0"	50	16	13'-1"	0'-11"	2'-2"
50	20	17'-4"	0'-11"	1'-10"	50	20	17'-2"	0'-11"	2'-0"	50	20	17'-1"	0'-11"	2'-2"
50	24	21'-4"	0'-11"	1'-10"	50	24	21'-2"	0'-11"	2'-0"	50	24	21'-0"	0'-11"	2'-2"
50	30	27'-4"	0'-11"	1'-10"	50	30	27'-1"	0'-11"	2'-2"	50	30	27'-1"	0'-11"	2'-2"
70	12	8'-6"	0'-11"	2'-9"	70	12	8'-1"	1'-1"	3'-3"	70	12	7'-10"	1'-1"	3'-6"
70	14	10'-6"	0'-11"	2'-9"	70	14	10'-1"	1'-1"	3'-3"	70	14	9'-10"	1'-1"	3'-6"
70	16	12'-6"	0'-11"	2'-9"	70	16	12'-0"	1'-1"	3'-3"	70	16	11'-10"	1'-1"	3'-6"
70	20	16'-6"	0'-11"	2'-9"	70	20	16'-0"	0'-11"	3'-3"	70	20	15'-10"	1'-1"	3'-6"
70	24	20'-1"	0'-11"	3'-3"	70	24	19'-10"	1'-1"	3'-6"	70	24	19'-10"	1'-1"	3'-6"
70	30	26'-0"	0'-11"	3'-3"	70	30	25'-10"	1'-1"	3'-6"	70	30	25'-10"	1'-1"	3'-6"
100	14	9'-10"	1'-1"	3'-6"	100	14	9'-4"	1'-7"	4'-0"	100	14	9'-1"	1'-7"	4'-3"
100	16	11'-10"	1'-1"	3'-6"	100	16	11'-4"	1'-7"	4'-0"	100	16	11'-1"	1'-7"	4'-3"
100	20	15'-10"	1'-1"	3'-6"	100	20	15'-4"	1'-4"	4'-0"	100	20	15'-1"	1'-7"	4'-3"
100	24	19'-7"	1'-4"	3'-9"	100	24	19'-2"	1'-4"	4'-3"	100	24	19'-1"	1'-4"	4'-3"
100	30	25'-7"	1'-4"	3'-9"	100	30	25'-2"	1'-4"	4'-3"	100	30	25'-1"	1'-4"	4'-3"
120	14	9'-7"	1'-7"	3'-9"	120	14	8'-10"	1'-7"	4'-6"	120	14	8'-10"	1'-11"	4'-6"
120	16	11'-4"	1'-7"	4'-0"	120	16	10'-11"	1'-7"	4'-6"	120	16	10'-11"	1'-7"	4'-6"
120	20	15'-4"	1'-4"	4'-0"	120	20	14'-11"	1'-7"	4'-6"	120	20	14'-8"	1'-7"	4'-9"
120	24	18'-11"	1'-4"	4'-6"	120	24	18'-11"	1'-7"	4'-6"	120	24	18'-8"	1'-7"	4'-9"
120	30	24'-11"	1'-4"	4'-6"	120	30	24'-11"	1'-4"	4'-6"	120	30	24'-8"	1'-7"	4'-9"
140	20	14'-10"	1'-7"	4'-6"	140	20	14'-8"	1'-7"	4'-9"	140	20	14'-1"	1'-11"	5'-4"
140	24	18'-11"	1'-7"	4'-6"	140	24	18'-1"	1'-7"	5'-4"	140	24	18'-1"	1'-7"	5'-4"
140	30	24'-11"	1'-4"	4'-6"	140	30	24'-1"	1'-7"	5'-4"	140	30	24'-1"	1'-7"	5'-4"
160	20	14'-10"	1'-7"	4'-6"	160	20	14'-1"	1'-11"	5'-4"	160	20	14'-1"	2'-3"	5'-4"
160	24	18'-8"	1'-7"	4'-9"	160	24	18'-1"	1'-7"	5'-4"	160	24	18'-1"	1'-11"	5'-4"
160	30	24'-8"	1'-7"	4'-9"	160	30	24'-1"	1'-7"	5'-4"	160	30	24'-1"	1'-7"	5'-4"



Roof Slope - 1:12  
Tapered Columns with Bypass Girts

1 Interior Column (LRFM1)

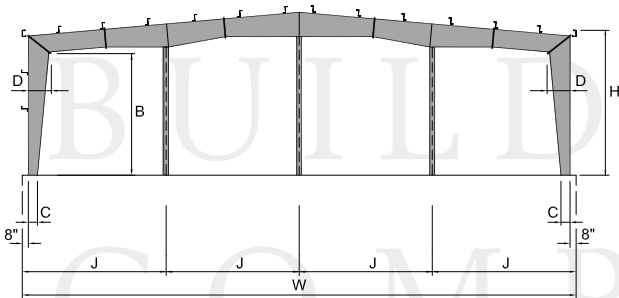
20 PSF Uniform Roof Load						30 PSF Uniform Roof Load						40 PSF Uniform Roof Load					
W	H	B	C	D	J	W	H	B	C	D	J	W	H	B	C	D	J
70	14	11'-11"	0'-11"	1'-3"	35'-0"	70	14	11'-11"	0'-11"	1'-3"	35'-0"	70	14	11'-8"	0'-11"	1'-6"	35'-0"
70	16	13'-11"	0'-11"	1'-3"	35'-0"	70	16	13'-11"	0'-11"	1'-3"	35'-0"	70	16	13'-8"	0'-11"	1'-6"	35'-0"
70	20	17'-11"	0'-11"	1'-3"	35'-0"	70	20	17'-11"	0'-11"	1'-3"	35'-0"	70	20	17'-8"	0'-11"	1'-6"	35'-0"
70	24	21'-8"	0'-11"	1'-6"	35'-0"	70	24	21'-8"	0'-11"	1'-6"	35'-0"	70	24	21'-8"	0'-11"	1'-6"	35'-0"
100	14	11'-4"	0'-11"	1'-10"	50'-0"	100	14	11'-2"	0'-11"	2'-0"	50'-0"	100	14	11'-1"	0'-11"	2'-2"	50'-0"
100	16	13'-4"	0'-11"	1'-10"	50'-0"	100	16	13'-2"	0'-11"	2'-0"	50'-0"	100	16	13'-0"	0'-11"	2'-2"	50'-0"
100	20	17'-4"	0'-11"	1'-10"	50'-0"	100	20	17'-2"	0'-11"	2'-0"	50'-0"	100	20	17'-1"	0'-11"	2'-2"	50'-0"
100	24	21'-4"	0'-11"	1'-10"	50'-0"	100	24	21'-2"	0'-11"	2'-0"	50'-0"	100	24	21'-1"	0'-11"	2'-2"	50'-0"
120	14	10'-9"	0'-11"	2'-6"	60'-0"	120	14	10'-9"	0'-11"	2'-6"	60'-0"	120	14	10'-9"	0'-11"	2'-6"	60'-0"
120	16	12'-9"	0'-11"	2'-6"	60'-0"	120	16	12'-9"	0'-11"	2'-6"	60'-0"	120	16	12'-9"	0'-11"	2'-6"	60'-0"
120	20	16'-6"	0'-11"	2'-9"	60'-0"	120	20	16'-9"	0'-11"	2'-6"	60'-0"	120	20	16'-9"	0'-11"	2'-6"	60'-0"
120	24	20'-5"	0'-11"	2'-9"	60'-0"	120	24	20'-9"	0'-11"	2'-6"	60'-0"	120	24	20'-9"	0'-11"	2'-6"	60'-0"
140	14	10'-6"	0'-11"	2'-9"	70'-0"	140	14	10'-6"	0'-11"	2'-9"	70'-0"	140	14	10'-3"	1'-1"	3'-0"	70'-0"
140	16	12'-6"	0'-11"	2'-9"	70'-0"	140	16	12'-6"	0'-11"	2'-9"	70'-0"	140	16	12'-3"	0'-11"	3'-0"	70'-0"
140	20	16'-6"	0'-11"	2'-9"	70'-0"	140	20	16'-6"	0'-11"	2'-9"	70'-0"	140	20	16'-3"	0'-11"	3'-0"	70'-0"
140	24	20'-6"	0'-11"	2'-9"	70'-0"	140	24	20'-6"	0'-11"	2'-9"	70'-0"	140	24	20'-3"	0'-11"	3'-0"	70'-0"
160	14	10'-3"	0'-11"	3'-0"	80'-0"	160	14	10'-1"	1'-1"	3'-3"	80'-0"	160	14	9'-10"	1'-1"	3'-6"	80'-0"
160	16	12'-3"	0'-11"	3'-0"	80'-0"	160	16	12'-0"	0'-11"	3'-3"	80'-0"	160	16	11'-10"	1'-1"	3'-6"	80'-0"
160	20	16'-3"	0'-11"	3'-0"	80'-0"	160	20	16'-1"	0'-11"	3'-3"	80'-0"	160	20	15'-10"	1'-1"	3'-6"	80'-0"
160	24	20'-1"	0'-11"	3'-3"	80'-0"	160	24	20'-1"	1'-1"	3'-3"	80'-0"	160	24	19'-9"	1'-1"	3'-6"	80'-0"



**Roof Slope - 1:12**  
**Tapered Columns with Bypass Girts**

## 2 Interior Columns (LRFM2)

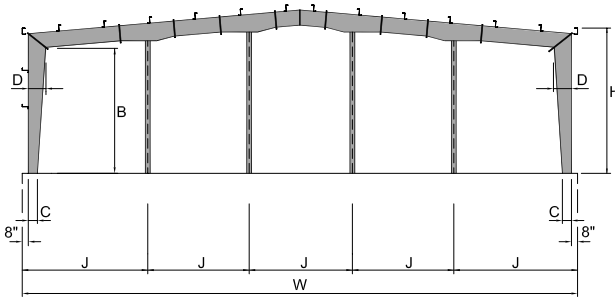
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load							
W	H	B	C	D	J	W	H	B	C	D	J	W	H	B	C	D	J
100	14	11'-11"	0'-11"	1'-3"	33'-4"	100	14	11'-11"	0'-11"	1'-3"	33'-4"	100	14	11'-11"	0'-11"	1'-3"	33'-4"
100	16	13'-11"	0'-11"	1'-3"	33'-4"	100	16	13'-11"	0'-11"	1'-3"	33'-4"	100	16	13'-8"	0'-11"	1'-6"	33'-4"
100	20	17'-11"	0'-11"	1'-3"	33'-4"	100	20	17'-8"	0'-11"	1'-6"	33'-4"	100	20	17'-8"	0'-11"	1'-6"	33'-4"
100	24	21'-11"	0'-11"	1'-3"	33'-4"	100	24	21'-8"	0'-11"	1'-6"	33'-4"	100	24	21'-6"	0'-11"	1'-8"	33'-4"
120	14	11'-11"	0'-11"	1'-3"	40'-0"	120	14	11'-8"	0'-11"	1'-6"	40'-0"	120	14	11'-4"	0'-11"	1'-10"	40'-0"
120	16	13'-11"	0'-11"	1'-3"	40'-0"	120	16	13'-8"	0'-11"	1'-6"	40'-0"	120	16	13'-4"	0'-11"	1'-10"	40'-0"
120	20	17'-11"	0'-11"	1'-3"	40'-0"	120	20	17'-8"	0'-11"	1'-6"	40'-0"	120	20	17'-4"	0'-11"	1'-10"	40'-0"
120	24	21'-11"	0'-11"	1'-3"	40'-0"	120	24	21'-8"	0'-11"	1'-6"	40'-0"	120	24	21'-4"	0'-11"	1'-10"	40'-0"
180	14	10'-9"	0'-11"	2'-6"	60'-0"	180	14	10'-9"	0'-11"	2'-6"	60'-0"	180	14	10'-6"	0'-11"	2'-9"	60'-0"
180	16	12'-9"	0'-11"	2'-6"	60'-0"	180	16	12'-9"	0'-11"	2'-6"	60'-0"	180	16	12'-6"	0'-11"	2'-9"	60'-0"
180	20	16'-8"	0'-11"	2'-6"	60'-0"	180	20	16'-6"	0'-11"	2'-9"	60'-0"	180	20	16'-6"	0'-11"	2'-9"	60'-0"
180	24	20'-9"	0'-11"	2'-6"	60'-0"	180	24	20'-6"	0'-11"	2'-9"	60'-0"	180	24	20'-6"	0'-11"	2'-9"	60'-0"
200	14	10'-6"	0'-11"	2'-9"	66'-8"	200	14	10'-6"	0'-11"	2'-9"	66'-8"	200	14	10'-3"	1'-1"	3'-0"	66'-8"
200	16	12'-6"	0'-11"	2'-9"	66'-8"	200	16	12'-6"	0'-11"	2'-9"	66'-8"	200	16	12'-3"	1'-1"	3'-0"	66'-8"
200	20	16'-6"	0'-11"	2'-9"	66'-8"	200	20	16'-6"	0'-11"	2'-9"	66'-8"	200	20	16'-3"	0'-11"	3'-0"	66'-8"
200	24	20'-6"	0'-11"	2'-9"	66'-8"	200	24	20'-6"	0'-11"	2'-9"	66'-8"	200	24	20'-3"	0'-11"	3'-0"	66'-8"
240	14	10'-0"	1'-1"	3'-3"	80'-0"	240	14	10'-1"	1'-1"	3'-3"	80'-0"	240	14	9'-10"	1'-7"	3'-6"	80'-0"
240	16	12'-0"	0'-11"	3'-3"	80'-0"	240	16	12'-0"	1'-1"	3'-3"	80'-0"	240	16	11'-10"	1'-1"	3'-6"	80'-0"
240	20	16'-1"	0'-11"	3'-3"	80'-0"	240	20	16'-1"	0'-11"	3'-3"	80'-0"	240	20	15'-9"	1'-1"	3'-6"	80'-0"
240	24	20'-0"	0'-11"	3'-3"	80'-0"	240	24	20'-1"	1'-1"	3'-3"	80'-0"	240	24	19'-10"	1'-1"	3'-6"	80'-0"



**Roof Slope - 1:12**  
**Tapered Columns with Bypass Girts**

## 3 Interior Columns (LRFM3)

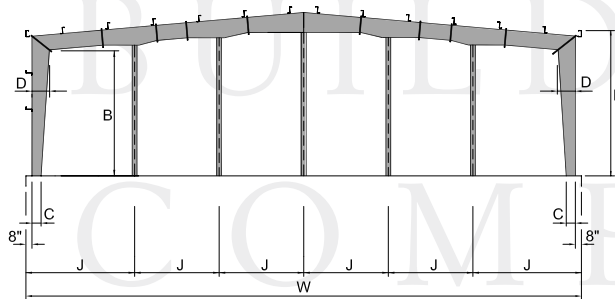
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load							
W	H	B	C	D	J	W	H	B	C	D	J	W	H	B	C	D	J
120	14	12'-1"	0'-11"	1'-0"	30'-0"	120	14	11'-11"	0'-11"	1'-3"	30'-0"	120	14	11'-11"	0'-11"	1'-3"	30'-0"
120	16	14'-1"	0'-11"	1'-0"	30'-0"	120	16	13'-10"	0'-11"	1'-3"	30'-0"	120	16	13'-10"	0'-11"	1'-3"	30'-0"
120	20	18'-1"	0'-11"	1'-0"	30'-0"	120	20	17'-10"	0'-11"	1'-3"	30'-0"	120	20	17'-10"	0'-11"	1'-3"	30'-0"
120	24	21'-11"	0'-11"	1'-3"	30'-0"	120	24	21'-11"	0'-11"	1'-3"	30'-0"	120	24	21'-11"	0'-11"	1'-3"	30'-0"
160	14	11'-11"	0'-11"	1'-3"	40'-0"	160	14	11'-6"	0'-11"	1'-8"	40'-0"	160	14	11'-8"	0'-11"	1'-6"	40'-0"
160	16	13'-11"	0'-11"	1'-3"	40'-0"	160	16	13'-6"	0'-11"	1'-8"	40'-0"	160	16	13'-6"	0'-11"	1'-8"	40'-0"
160	20	17'-11"	0'-11"	1'-3"	40'-0"	160	20	17'-6"	0'-11"	1'-8"	40'-0"	160	20	17'-6"	0'-11"	1'-8"	40'-0"
160	24	21'-11"	0'-11"	1'-3"	40'-0"	160	24	21'-4"	0'-11"	1'-10"	40'-0"	160	24	21'-6"	0'-11"	1'-8"	40'-0"
200	14	11'-4"	0'-11"	1'-10"	50'-0"	200	14	11'-4"	0'-11"	1'-10"	50'-0"	200	14	11'-2"	0'-11"	2'-0"	50'-0"
200	16	13'-4"	0'-11"	1'-10"	50'-0"	200	16	13'-4"	0'-11"	1'-10"	50'-0"	200	16	13'-2"	0'-11"	2'-0"	50'-0"
200	20	17'-4"	0'-11"	1'-10"	50'-0"	200	20	17'-4"	0'-11"	1'-10"	50'-0"	200	20	17'-2"	0'-11"	2'-0"	50'-0"
200	24	21'-4"	0'-11"	1'-10"	50'-0"	200	24	21'-4"	0'-11"	1'-10"	50'-0"	200	24	21'-2"	0'-11"	2'-0"	50'-0"
240	14	10'-9"	0'-11"	2'-6"	60'-0"	240	14	10'-9"	0'-11"	2'-6"	60'-0"	240	14	10'-9"	0'-11"	2'-6"	60'-0"
240	16	12'-9"	0'-11"	2'-6"	60'-0"	240	16	12'-9"	0'-11"	2'-6"	60'-0"	240	16	12'-9"	0'-11"	2'-6"	60'-0"
240	20	16'-9"	0'-11"	2'-6"	60'-0"	240	20	16'-6"	0'-11"	2'-9"	60'-0"	240	20	16'-8"	0'-11"	2'-6"	60'-0"
240	24	20'-9"	0'-11"	2'-6"	60'-0"	240	24	20'-6"	0'-11"	2'-9"	60'-0"	240	24	20'-9"	0'-11"	2'-6"	60'-0"
280	14	10'-6"	0'-11"	2'-9"	70'-0"	280	14	10'-3"	0'-11"	3'-0"	70'-0"	280	14	10'-6"	1'-1"	2'-9"	70'-0"
280	16	12'-3"	0'-11"	3'-0"	70'-0"	280	16	12'-3"	0'-11"	3'-0"	70'-0"	280	16	12'-3"	0'-11"	3'-0"	70'-0"
280	20	16'-3"	0'-11"	3'-0"	70'-0"	280	20	16'-3"	0'-11"	3'-0"	70'-0"	280	20	16'-3"	0'-11"	3'-0"	70'-0"
280	24	20'-3"	0'-11"	3'-0"	70'-0"	280	24	20'-3"	0'-11"	3'-0"	70'-0"	280	24	20'-3"	0'-11"	3'-0"	70'-0"
320	14	10'-1"	0'-11"	3'-3"	80'-0"	320	14	10'-0"	1'-1"	3'-3"	80'-0"	320	14	10'-1"	1'-1"	3'-3"	80'-0"
320	16	12'-1"	0'-11"	3'-3"	80'-0"	320	16	12'-0"	0'-11"	3'-3"	80'-0"	320	16	12'-1"	1'-1"	3'-3"	80'-0"
320	20	16'-0"	0'-11"	3'-3"	80'-0"	320	20	16'-1"	0'-11"	3'-3"	80'-0"	320	20	16'-0"	1'-1"	3'-3"	80'-0"
320	24	20'-1"	0'-11"	3'-3"	80'-0"	320	24	19'-10"	1'-1"	3'-6"	80'-0"	320	24	20'-1"	1'-1"	3'-3"	80'-0"



**Roof Slope - 1:12**  
**Tapered Columns with Bypass Girts**

## 4 Interior Columns (LRFM4)

20 PSF Uniform Roof Load						30 PSF Uniform Roof Load						40 PSF Uniform Roof Load					
W	H	B	C	D	J	W	H	B	C	D	J	W	H	B	C	D	J
180	14	11'-11"	0'-11"	1'-3"	36'-0"	180	14	11'-11"	0'-11"	1'-3"	36'-0"	180	14	11'-11"	0'-11"	1'-3"	36'-0"
180	16	13'-11"	0'-11"	1'-3"	36'-0"	180	16	13'-11"	0'-11"	1'-3"	36'-0"	180	16	13'-11"	0'-11"	1'-3"	36'-0"
180	20	17'-11"	0'-11"	1'-3"	36'-0"	180	20	17'-11"	0'-11"	1'-3"	36'-0"	180	20	17'-6"	0'-11"	1'-8"	36'-0"
180	24	21'-11"	0'-11"	1'-3"	36'-0"	180	24	21'-11"	0'-11"	1'-3"	36'-0"	180	24	21'-6"	0'-11"	1'-8"	36'-0"
250	14	11'-4"	0'-11"	1'-10"	50'-0"	250	14	11'-6"	0'-11"	1'-8"	50'-0"	250	14	11'-4"	0'-11"	1'-10"	50'-0"
250	16	13'-4"	0'-11"	1'-10"	50'-0"	250	16	13'-4"	0'-11"	1'-10"	50'-0"	250	16	13'-2"	0'-11"	2'-0"	50'-0"
250	20	17'-4"	0'-11"	1'-10"	50'-0"	250	20	17'-4"	0'-11"	1'-10"	50'-0"	250	20	17'-2"	0'-11"	2'-0"	50'-0"
250	24	21'-4"	0'-11"	1'-10"	50'-0"	250	24	21'-2"	0'-11"	2'-0"	50'-0"	250	24	21'-2"	0'-11"	2'-0"	50'-0"
300	14	10'-9"	0'-11"	2'-6"	60'-0"	300	14	11'-0"	0'-11"	2'-2"	60'-0"	300	14	10'-3"	0'-11"	3'-0"	60'-0"
300	16	12'-9"	0'-11"	2'-6"	60'-0"	300	16	12'-9"	0'-11"	2'-6"	60'-0"	300	16	12'-6"	0'-11"	2'-9"	60'-0"
300	20	16'-8"	0'-11"	2'-6"	60'-0"	300	20	16'-9"	0'-11"	2'-6"	60'-0"	300	20	16'-6"	0'-11"	2'-9"	60'-0"
300	24	20'-8"	0'-11"	2'-6"	60'-0"	300	24	20'-9"	0'-11"	2'-6"	60'-0"	300	24	20'-6"	0'-11"	2'-9"	60'-0"
350	14	10'-9"	0'-11"	2'-6"	70'-0"	350	14	10'-3"	0'-11"	3'-0"	70'-0"	350	14	10'-6"	1'-1"	2'-9"	70'-0"
350	16	12'-9"	0'-11"	2'-6"	70'-0"	350	16	12'-3"	0'-11"	3'-0"	70'-0"	350	16	12'-6"	0'-11"	2'-9"	70'-0"
350	20	16'-3"	0'-11"	3'-0"	70'-0"	350	20	16'-3"	0'-11"	3'-0"	70'-0"	350	20	16'-6"	0'-11"	2'-9"	70'-0"
350	24	20'-3"	0'-11"	3'-0"	70'-0"	350	24	20'-3"	0'-11"	3'-0"	70'-0"	350	24	20'-6"	0'-11"	2'-9"	70'-0"
400	14	10'-1"	1'-1"	3'-3"	80'-0"	400	14	10'-3"	1'-1"	3'-0"	80'-0"	400	14	10'-1"	1'-7"	3'-3"	80'-0"
400	16	12'-0"	1'-1"	3'-3"	80'-0"	400	16	12'-3"	1'-1"	3'-0"	80'-0"	400	16	12'-0"	1'-1"	3'-3"	80'-0"
400	20	16'-0"	0'-11"	3'-3"	80'-0"	400	20	16'-3"	0'-11"	3'-0"	80'-0"	400	20	16'-1"	1'-1"	3'-3"	80'-0"
400	24	20'-0"	0'-11"	3'-3"	80'-0"	400	24	20'-3"	1'-1"	3'-0"	80'-0"	400	24	20'-0"	1'-1"	3'-3"	80'-0"

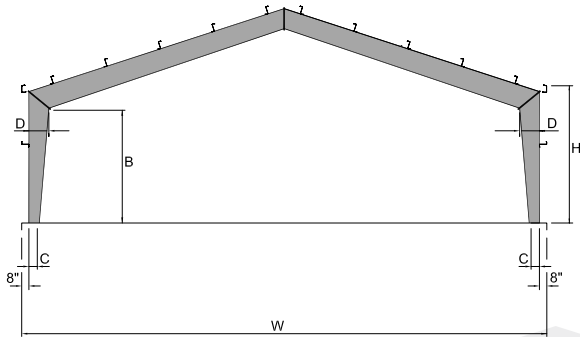


**Roof Slope - 1:12**  
**Tapered Columns with Bypass Girts**

## 5 Interior Columns (LRFM5)

20 PSF Uniform Roof Load						30 PSF Uniform Roof Load						40 PSF Uniform Roof Load					
W	H	B	C	D	J	W	H	B	C	D	J	W	H	B	C	D	J
200	14	11'-11"	0'-11"	1'-3"	33'-4"	200	14	11'-11"	0'-11"	1'-3"	33'-4"	200	14	11'-11"	0'-11"	1'-3"	33'-4"
200	16	13'-11"	0'-11"	1'-3"	33'-4"	200	16	13'-11"	0'-11"	1'-3"	33'-4"	200	16	13'-8"	0'-11"	1'-6"	33'-4"
200	20	17'-11"	0'-11"	1'-3"	33'-4"	200	20	17'-11"	0'-11"	1'-3"	33'-4"	200	20	17'-8"	0'-11"	1'-6"	33'-4"
200	24	21'-11"	0'-11"	1'-3"	33'-4"	200	24	21'-11"	0'-11"	1'-3"	33'-4"	200	24	21'-8"	0'-11"	1'-6"	33'-4"
300	14	11'-4"	0'-11"	1'-10"	50'-0"	300	14	11'-6"	0'-11"	1'-8"	50'-0"	300	14	11'-2"	0'-11"	2'-0"	50'-0"
300	16	13'-4"	0'-11"	1'-10"	50'-0"	300	16	13'-6"	0'-11"	1'-8"	50'-0"	300	16	13'-2"	0'-11"	2'-0"	50'-0"
300	20	17'-4"	0'-11"	1'-10"	50'-0"	300	20	17'-6"	0'-11"	1'-8"	50'-0"	300	20	17'-2"	0'-11"	2'-0"	50'-0"
300	24	21'-4"	0'-11"	1'-10"	50'-0"	300	24	21'-6"	0'-11"	1'-8"	50'-0"	300	24	21'-2"	0'-11"	2'-0"	50'-0"
420	14	10'-3"	0'-11"	3'-0"	70'-0"	420	14	10'-3"	0'-11"	3'-0"	70'-0"	420	14	10'-3"	1'-1"	3'-0"	70'-0"
420	16	12'-3"	0'-11"	3'-0"	70'-0"	420	16	12'-3"	0'-11"	3'-0"	70'-0"	420	16	12'-3"	0'-11"	3'-0"	70'-0"
420	20	16'-3"	0'-11"	3'-0"	70'-0"	420	20	16'-3"	0'-11"	3'-0"	70'-0"	420	20	16'-3"	0'-11"	3'-0"	70'-0"
420	24	20'-3"	0'-11"	3'-0"	70'-0"	420	24	20'-3"	0'-11"	3'-0"	70'-0"	420	24	20'-3"	0'-11"	3'-0"	70'-0"
480	14	10'-1"	0'-11"	3'-3"	80'-0"	480	14	9'-10"	1'-1"	3'-6"	80'-0"	480	14	10'-1"	1'-1"	3'-3"	80'-0"
480	16	12'-1"	0'-11"	3'-3"	80'-0"	480	16	11'-9"	0'-11"	3'-6"	80'-0"	480	16	12'-1"	1'-1"	3'-3"	80'-0"
480	20	16'-1"	0'-11"	3'-3"	80'-0"	480	20	15'-9"	0'-11"	3'-6"	80'-0"	480	20	16'-1"	1'-1"	3'-3"	80'-0"
480	24	19'-10"	0'-11"	3'-6"	80'-0"	480	24	19'-10"	1'-1"	3'-6"	80'-0"	480	24	20'-1"	1'-1"	3'-3"	80'-0"

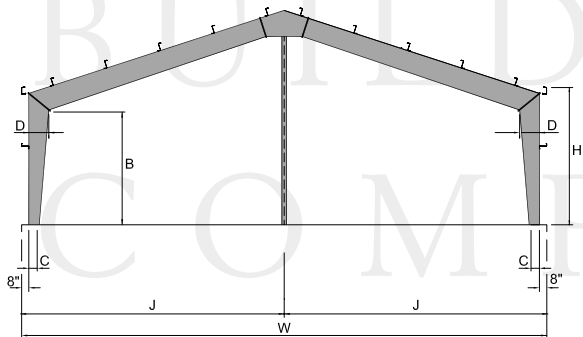




**Roof Slope - 4:12**  
**Tapered Columns with Bypass Girts**

## Clear Span (RF)

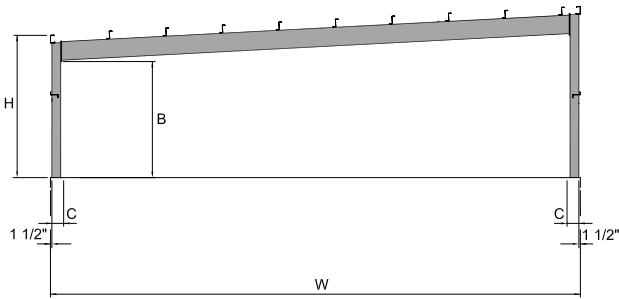
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	D	W	H	B	C	D	W	H	B	C	D
30	10	8'-5"	0'-11"	1'-0"	30	10	8'-3"	0'-11"	1'-3"	30	10	8'-3"	0'-11"	1'-3"
30	12	10'-5"	0'-11"	1'-0"	30	12	10'-3"	0'-11"	1'-3"	30	12	10'-3"	0'-11"	1'-3"
30	14	12'-5"	0'-11"	1'-0"	30	14	12'-3"	0'-11"	1'-3"	30	14	12'-3"	0'-11"	1'-3"
30	16	14'-5"	0'-11"	1'-0"	30	16	14'-3"	0'-11"	1'-3"	30	16	14'-3"	0'-11"	1'-3"
30	20	18'-3"	0'-11"	1'-3"	30	20	18'-3"	0'-11"	1'-3"	30	20	18'-3"	0'-11"	1'-3"
30	24	22'-1"	0'-11"	1'-6"	30	24	22'-1"	0'-11"	1'-6"	30	24	22'-1"	0'-11"	1'-6"
50	12	10'-1"	0'-11"	1'-6"	50	12	9'-10"	0'-11"	1'-10"	50	12	9'-9"	0'-11"	2'-0"
50	14	12'-0"	0'-11"	1'-8"	50	14	11'-10"	0'-11"	1'-10"	50	14	11'-9"	0'-11"	2'-0"
50	16	14'-0"	0'-11"	1'-8"	50	16	13'-10"	0'-11"	1'-10"	50	16	13'-9"	0'-11"	2'-0"
50	20	18'-0"	0'-11"	1'-8"	50	20	17'-10"	0'-11"	1'-10"	50	20	17'-7"	0'-11"	2'-2"
50	24	21'-10"	0'-11"	1'-10"	50	24	21'-9"	0'-11"	2'-0"	50	24	21'-7"	0'-11"	2'-2"
70	12	9'-1"	0'-11"	2'-9"	70	12	9'-2"	0'-11"	2'-9"	70	12	8'-10"	1'-1"	3'-3"
70	14	11'-2"	0'-11"	2'-9"	70	14	11'-2"	0'-11"	2'-9"	70	14	10'-10"	1'-1"	3'-3"
70	16	13'-2"	0'-11"	2'-9"	70	16	13'-2"	0'-11"	2'-9"	70	16	12'-9"	1'-1"	3'-3"
70	20	17'-2"	0'-11"	2'-9"	70	20	17'-2"	0'-11"	2'-9"	70	20	16'-10"	1'-1"	3'-3"
70	24	21'-2"	0'-11"	2'-9"	70	24	20'-10"	1'-1"	3'-3"	70	24	20'-10"	1'-1"	3'-3"
100	14	10'-10"	1'-1"	3'-3"	100	14	10'-8"	1'-1"	3'-6"	100	14	10'-3"	1'-9"	4'-0"
100	16	12'-10"	1'-1"	3'-3"	100	16	12'-6"	1'-1"	3'-9"	100	16	12'-3"	1'-9"	4'-0"
100	20	16'-10"	1'-1"	3'-3"	100	20	16'-5"	1'-1"	3'-9"	100	20	16'-3"	1'-9"	4'-0"
100	24	20'-8"	1'-1"	3'-6"	100	24	20'-6"	1'-9"	3'-9"	100	24	20'-3"	1'-9"	4'-0"
120	14	10'-8"	1'-1"	3'-6"	120	14	10'-1"	1'-5"	4'-3"	120	14	9'-11"	1'-9"	4'-6"
120	16	12'-8"	1'-1"	3'-6"	120	16	12'-0"	1'-5"	4'-3"	120	16	11'-11"	1'-9"	4'-6"
120	20	16'-6"	1'-1"	3'-9"	120	20	16'-1"	1'-5"	4'-3"	120	20	15'-11"	1'-9"	4'-6"
120	24	20'-3"	1'-5"	4'-0"	120	24	19'-11"	1'-9"	4'-6"	120	24	19'-11"	1'-9"	4'-6"



**Roof Slope - 4:12**  
**Tapered Columns with Bypass Girts**

## 1 Interior Column (RFM1)

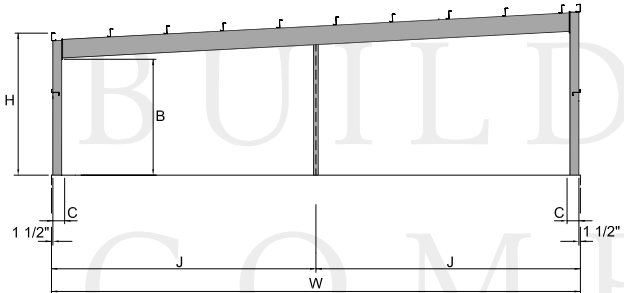
20 PSF Uniform Roof Load						30 PSF Uniform Roof Load						40 PSF Uniform Roof Load					
W	H	B	C	D	J	W	H	B	C	D	J	W	H	B	C	D	J
70	12	10'-3"	0'-11"	1'-3"	35'-0"	70	12	10'-3"	0'-11"	1'-3"	35'-0"	70	12	10'-3"	0'-11"	1'-3"	35'-0"
70	14	12'-3"	0'-11"	1'-3"	35'-0"	70	14	12'-3"	0'-11"	1'-3"	35'-0"	70	14	12'-1"	0'-11"	1'-6"	35'-0"
70	16	14'-3"	0'-11"	1'-3"	35'-0"	70	16	14'-3"	0'-11"	1'-3"	35'-0"	70	16	14'-0"	0'-11"	1'-6"	35'-0"
70	20	18'-3"	0'-11"	1'-3"	35'-0"	70	20	18'-3"	0'-11"	1'-3"	35'-0"	70	20	18'-0"	0'-11"	1'-6"	35'-0"
70	24	22'-0"	0'-11"	1'-8"	35'-0"	70	24	22'-1"	0'-11"	1'-6"	35'-0"	70	24	22'-1"	0'-11"	1'-6"	35'-0"
100	12	10'-0"	0'-11"	1'-8"	50'-0"	100	12	10'-0"	0'-11"	1'-8"	50'-0"	100	12	9'-10"	0'-11"	1'-10"	50'-0"
100	14	12'-0"	0'-11"	1'-8"	50'-0"	100	14	11'-11"	0'-11"	1'-8"	50'-0"	100	14	11'-10"	0'-11"	1'-10"	50'-0"
100	16	14'-0"	0'-11"	1'-8"	50'-0"	100	16	14'-0"	0'-11"	1'-8"	50'-0"	100	16	13'-9"	0'-11"	1'-10"	50'-0"
100	20	18'-0"	0'-11"	1'-8"	50'-0"	100	20	17'-11"	0'-11"	1'-8"	50'-0"	100	20	17'-9"	0'-11"	1'-10"	50'-0"
100	24	22'-0"	0'-11"	1'-8"	50'-0"	100	24	21'-11"	0'-11"	1'-8"	50'-0"	100	24	21'-9"	0'-11"	1'-10"	50'-0"
120	12	9'-9"	0'-11"	2'-0"	60'-0"	120	12	9'-9"	0'-11"	2'-0"	60'-0"	120	12	9'-7"	0'-11"	2'-2"	60'-0"
120	14	11'-9"	0'-11"	2'-0"	60'-0"	120	14	11'-7"	0'-11"	2'-2"	60'-0"	120	14	11'-7"	0'-11"	2'-2"	60'-0"
120	16	13'-9"	0'-11"	2'-0"	60'-0"	120	16	13'-7"	0'-11"	2'-2"	60'-0"	120	16	13'-7"	0'-11"	2'-2"	60'-0"
120	20	17'-7"	0'-11"	2'-2"	60'-0"	120	20	17'-7"	0'-11"	2'-2"	60'-0"	120	20	17'-7"	0'-11"	2'-2"	60'-0"
120	24	21'-7"	0'-11"	2'-2"	60'-0"	120	24	21'-7"	0'-11"	2'-2"	60'-0"	120	24	21'-7"	0'-11"	2'-2"	60'-0"



Roof Slope - 1/4:12  
Straight Columns with Inset Girts

### Clear Span (SSF)

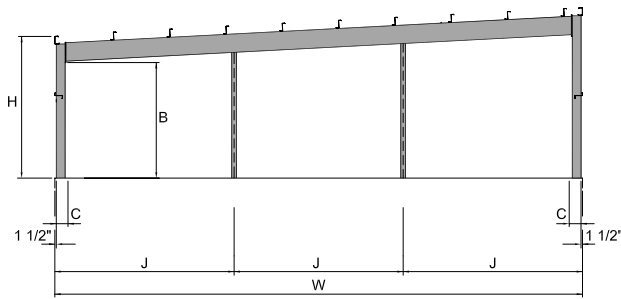
20 PSF Uniform Roof Load				30 PSF Uniform Roof Load				40 PSF Uniform Roof Load			
W	H	B	C	W	H	B	C	W	H	B	C
20	10	8'-2"	0'-11"	20	10	8'-2"	0'-11"	20	10	8'-2"	0'-11"
20	12	10'-2"	0'-11"	20	12	10'-2"	0'-11"	20	12	10'-2"	0'-11"
20	14	12'-2"	0'-11"	20	14	12'-2"	0'-11"	20	14	12'-2"	0'-11"
20	16	14'-2"	0'-11"	20	16	14'-2"	0'-11"	20	16	14'-2"	0'-11"
20	20	17'-9"	0'-11"	20	20	17'-9"	0'-11"	20	20	17'-9"	0'-11"
30	10	7'-7"	0'-11"	30	10	7'-9"	1'-1"	30	10	7'-3"	1'-1"
30	12	9'-7"	0'-11"	30	12	9'-4"	0'-11"	30	12	8'-11"	0'-11"
30	14	11'-7"	0'-11"	30	14	11'-4"	0'-11"	30	14	11'-1"	0'-11"
30	16	13'-7"	0'-11"	30	16	13'-4"	0'-11"	30	16	13'-1"	0'-11"
30	20	17'-9"	1'-1"	30	20	17'-1"	0'-11"	30	20	16'-11"	0'-11"
40	12	8'-9"	0'-11"	40	12	9'-4"	1'-4"	40	12	9'-4"	1'-7"
40	14	10'-9"	0'-11"	40	14	11'-4"	1'-7"	40	14	10'-11"	1'-4"
40	16	12'-11"	0'-11"	40	16	12'-10"	1'-1"	40	16	12'-7"	1'-4"
40	20	16'-11"	0'-11"	40	20	16'-6"	0'-11"	40	20	16'-4"	1'-1"
50	12	8'-9"	1'-4"	50	12	8'-10"	1'-11"	50	12	8'-10"	1'-11"
50	14	10'-9"	1'-4"	50	14	10'-8"	1'-9"	50	14	10'-10"	1'-11"
50	16	13'-2"	1'-7"	50	16	12'-10"	1'-11"	50	16	12'-10"	1'-11"
50	20	16'-6"	1'-1"	50	20	16'-8"	1'-7"	50	20	16'-6"	1'-7"
60	12	9'-0"	1'-11"	60	12	8'-6"	2'-1"	60	12	8'-3"	2'-1"
60	14	10'-6"	1'-7"	60	14	10'-6"	2'-1"	60	14	10'-3"	2'-1"
60	16	12'-10"	1'-11"	60	16	12'-4"	1'-11"	60	16	12'-0"	2'-1"
60	20	16'-8"	1'-9"	60	20	16'-8"	1'-11"	60	20	16'-1"	1'-11"



Roof Slope - 1/4:12  
Straight Columns with Inset Girts

### 1 Interior Column (SSF M1)

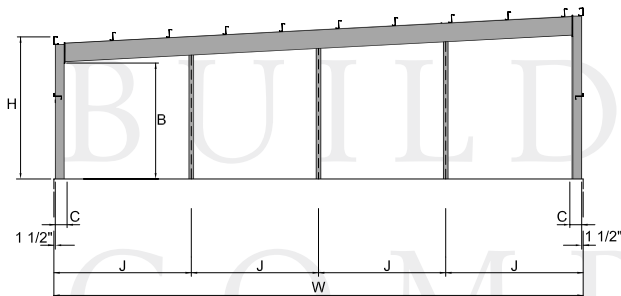
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	J	W	H	B	C	J	W	H	B	C	J
50	12	10'-2"	1'-1"	25'-0"	50	12	10'-0"	1'-1"	25'-0"	50	12	9'-9"	0'-11"	25'-0"
50	14	12'-2"	1'-1"	25'-0"	50	14	12'-0"	1'-1"	25'-0"	50	14	11'-9"	0'-11"	25'-0"
50	16	14'-2"	1'-1"	25'-0"	50	16	14'-0"	1'-1"	25'-0"	50	16	13'-9"	0'-11"	25'-0"
50	20	17'-9"	1'-1"	25'-0"	50	20	17'-9"	1'-1"	25'-0"	50	20	17'-9"	1'-1"	25'-0"
50	24	21'-9"	1'-7"	25'-0"	50	24	21'-9"	1'-7"	25'-0"	50	24	21'-9"	1'-7"	25'-0"
70	12	9'-1"	0'-11"	35'-0"	70	12	9'-6"	1'-4"	35'-0"	70	12	8'-10"	0'-11"	35'-0"
70	14	11'-1"	0'-11"	35'-0"	70	14	11'-9"	1'-7"	35'-0"	70	14	10'-10"	0'-11"	35'-0"
70	16	13'-1"	0'-11"	35'-0"	70	16	13'-3"	1'-1"	35'-0"	70	16	13'-0"	1'-1"	35'-0"
70	20	17'-6"	1'-4"	35'-0"	70	20	17'-9"	1'-7"	35'-0"	70	20	17'-0"	1'-1"	35'-0"
70	24	21'-6"	1'-7"	35'-0"	70	24	21'-6"	1'-7"	35'-0"	70	24	21'-6"	1'-7"	35'-0"
100	12	8'-10"	1'-1"	50'-0"	100	12	9'-0"	1'-7"	50'-0"	100	12	8'-10"	1'-7"	50'-0"
100	14	10'-8"	1'-1"	50'-0"	100	14	10'-7"	1'-4"	50'-0"	100	14	10'-10"	1'-7"	50'-0"
100	16	12'-8"	1'-1"	50'-0"	100	16	12'-7"	1'-4"	50'-0"	100	16	12'-10"	1'-7"	50'-0"
100	20	16'-8"	1'-1"	50'-0"	100	20	16'-4"	1'-1"	50'-0"	100	20	16'-10"	1'-7"	50'-0"
100	24	21'-4"	1'-7"	50'-0"	100	24	20'-10"	1'-7"	50'-0"	100	24	20'-9"	1'-4"	50'-0"
140	12	8'-6"	1'-9"	70'-0"	140	12	8'-6"	1'-7"	70'-0"	140	12	8'-0"	1'-9"	70'-0"
140	14	10'-4"	1'-7"	70'-0"	140	14	10'-6"	1'-9"	70'-0"	140	14	10'-1"	1'-7"	70'-0"
140	16	11'-10"	1'-1"	70'-0"	140	16	12'-1"	1'-4"	70'-0"	140	16	11'-7"	1'-1"	70'-0"
140	20	15'-10"	1'-1"	70'-0"	140	20	16'-4"	1'-7"	70'-0"	140	20	15'-10"	1'-4"	70'-0"
140	24	20'-4"	1'-7"	70'-0"	140	24	20'-1"	1'-4"	70'-0"	140	24	19'-10"	1'-4"	70'-0"
160	12	8'-1"	1'-7"	80'-0"	160	12	8'-0"	1'-11"	80'-0"	160	12	8'-0"	1'-11"	80'-0"
160	14	10'-3"	1'-9"	80'-0"	160	14	10'-3"	1'-11"	80'-0"	160	14	10'-0"	1'-11"	80'-0"
160	16	11'-7"	1'-1"	80'-0"	160	16	12'-3"	1'-11"	80'-0"	160	16	11'-11"	1'-7"	80'-0"
160	20	15'-10"	1'-4"	80'-0"	160	20	15'-8"	1'-7"	80'-0"	160	20	16'-3"	1'-11"	80'-0"
160	24	19'-10"	1'-4"	80'-0"	160	24	19'-5"	1'-4"	80'-0"	160	24	19'-10"	1'-9"	80'-0"



Roof Slope - 1/4:12  
Straight Columns with Inset Girts

## 2 Interior Columns (SSFM2)

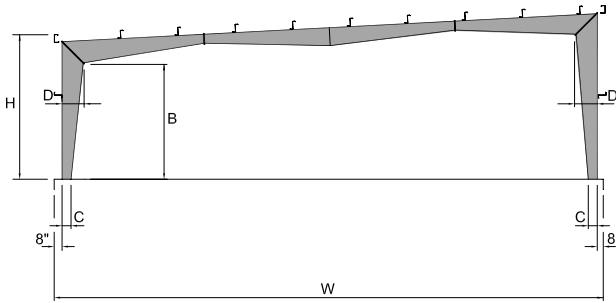
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	J	W	H	B	C	J	W	H	B	C	J
100	12	9'-9"	0'-11"	33'-4"	100	12	9'-9"	1'-4"	33'-4"	100	12	9'-9"	1'-1"	33'-4"
100	14	11'-9"	0'-11"	33'-4"	100	14	11'-9"	1'-4"	33'-4"	100	14	11'-9"	1'-1"	33'-4"
100	16	13'-9"	0'-11"	33'-4"	100	16	13'-9"	1'-4"	33'-4"	100	16	13'-9"	1'-1"	33'-4"
100	20	17'-9"	1'-4"	33'-4"	100	20	17'-9"	1'-4"	33'-4"	100	20	17'-4"	1'-1"	33'-4"
100	24	21'-6"	1'-7"	33'-4"	100	24	21'-6"	1'-7"	33'-4"	100	24	21'-6"	1'-7"	33'-4"
120	12	8'-8"	0'-11"	40'-0"	120	12	9'-3"	1'-4"	40'-0"	120	12	8'-10"	1'-1"	40'-0"
120	14	10'-10"	0'-11"	40'-0"	120	14	11'-3"	1'-4"	40'-0"	120	14	11'-1"	1'-4"	40'-0"
120	16	12'-10"	0'-11"	40'-0"	120	16	13'-3"	1'-4"	40'-0"	120	16	13'-1"	1'-4"	40'-0"
120	20	16'-10"	1'-1"	40'-0"	120	20	17'-3"	1'-4"	40'-0"	120	20	16'-10"	1'-1"	40'-0"
120	24	21'-4"	1'-7"	40'-0"	120	24	21'-4"	1'-7"	40'-0"	120	24	21'-4"	1'-7"	40'-0"
200	12	8'-6"	1'-9"	66'-8"	200	12	8'-7"	1'-4"	66'-8"	200	12	8'-6"	1'-7"	66'-8"
200	14	10'-10"	1'-9"	66'-8"	200	14	10'-10"	1'-9"	66'-8"	200	14	10'-6"	1'-7"	66'-8"
200	16	12'-5"	1'-4"	66'-8"	200	16	12'-6"	1'-9"	66'-8"	200	16	12'-6"	1'-9"	66'-8"
200	20	15'-10"	1'-1"	66'-8"	200	20	16'-8"	1'-9"	66'-8"	200	20	16'-4"	1'-7"	66'-8"
200	24	20'-10"	1'-9"	66'-8"	200	24	20'-4"	1'-7"	66'-8"	200	24	20'-0"	1'-9"	66'-8"
240	12	8'-3"	1'-9"	80'-0"	240	12	8'-0"	1'-9"	80'-0"	240	12	8'-0"	1'-9"	80'-0"
240	14	10'-3"	1'-9"	80'-0"	240	14	10'-0"	1'-11"	80'-0"	240	14	10'-3"	1'-9"	80'-0"
240	16	12'-1"	1'-7"	80'-0"	240	16	12'-0"	1'-11"	80'-0"	240	16	12'-3"	1'-11"	80'-0"
240	20	15'-10"	1'-4"	80'-0"	240	20	16'-3"	1'-11"	80'-0"	240	20	16'-0"	1'-11"	80'-0"
240	24	19'-7"	1'-4"	80'-0"	240	24	20'-3"	1'-11"	80'-0"	240	24	19'-10"	1'-9"	80'-0"



Roof Slope - 1/4:12  
Straight Columns with Inset Girts

## 3 Interior Columns (SSFM3)

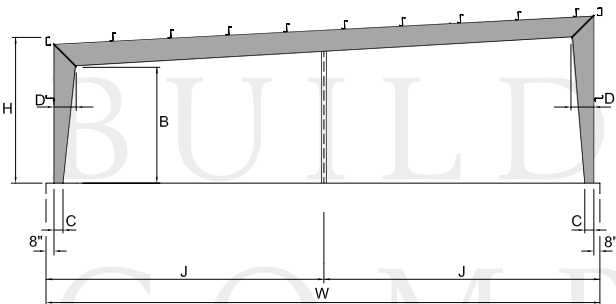
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	J	W	H	B	C	J	W	H	B	C	J
120	12	9'-9"	0'-11"	30'-0"	120	12	9'-9"	1'-1"	30'-0"	120	12	9'-9"	1'-4"	30'-0"
120	14	11'-9"	0'-11"	30'-0"	120	14	11'-9"	1'-1"	30'-0"	120	14	11'-4"	0'-11"	30'-0"
120	16	13'-9"	0'-11"	30'-0"	120	16	13'-4"	0'-11"	30'-0"	120	16	13'-4"	0'-11"	30'-0"
120	20	17'-9"	1'-4"	30'-0"	120	20	17'-9"	1'-4"	30'-0"	120	20	17'-6"	1'-1"	30'-0"
120	24	21'-6"	1'-7"	30'-0"	120	24	21'-6"	1'-7"	30'-0"	120	24	21'-6"	1'-7"	30'-0"
160	12	9'-6"	1'-4"	40'-0"	160	12	9'-3"	1'-4"	40'-0"	160	12	9'-1"	1'-4"	40'-0"
160	14	11'-3"	1'-4"	40'-0"	160	14	10'-10"	1'-1"	40'-0"	160	14	11'-1"	1'-4"	40'-0"
160	16	13'-6"	1'-4"	40'-0"	160	16	12'-10"	1'-1"	40'-0"	160	16	13'-1"	1'-4"	40'-0"
160	20	17'-6"	1'-7"	40'-0"	160	20	17'-3"	1'-4"	40'-0"	160	20	17'-4"	1'-7"	40'-0"
160	24	21'-2"	1'-7"	40'-0"	160	24	21'-2"	1'-7"	40'-0"	160	24	21'-2"	1'-7"	40'-0"
200	12	8'-6"	0'-11"	50'-0"	200	12	8'-6"	1'-1"	50'-0"	200	12	8'-9"	1'-4"	50'-0"
200	14	10'-8"	1'-1"	50'-0"	200	14	10'-4"	0'-11"	50'-0"	200	14	10'-9"	1'-4"	50'-0"
200	16	12'-6"	0'-11"	50'-0"	200	16	12'-6"	1'-1"	50'-0"	200	16	13'-0"	1'-7"	50'-0"
200	20	16'-11"	1'-4"	50'-0"	200	20	16'-6"	1'-1"	50'-0"	200	20	16'-4"	1'-1"	50'-0"
200	24	21'-2"	1'-7"	50'-0"	200	24	21'-0"	1'-7"	50'-0"	200	24	20'-10"	1'-7"	50'-0"
280	12	8'-6"	1'-9"	70'-0"	280	12	8'-3"	1'-9"	70'-0"	280	12	8'-3"	1'-9"	70'-0"
280	14	10'-3"	1'-9"	70'-0"	280	14	10'-3"	1'-9"	70'-0"	280	14	10'-3"	1'-9"	70'-0"
280	16	12'-3"	1'-9"	70'-0"	280	16	12'-1"	1'-4"	70'-0"	280	16	11'-4"	1'-1"	70'-0"
280	20	16'-4"	1'-7"	70'-0"	280	20	16'-3"	1'-9"	70'-0"	280	20	15'-7"	1'-4"	70'-0"
280	24	20'-4"	1'-7"	70'-0"	280	24	20'-4"	1'-7"	70'-0"	280	24	19'-10"	1'-7"	70'-0"
320	12	7'-7"	1'-1"	80'-0"	320	12	8'-0"	1'-9"	80'-0"	320	12	7'-7"	1'-4"	80'-0"
320	14	9'-4"	1'-1"	80'-0"	320	14	10'-0"	1'-9"	80'-0"	320	14	10'-0"	1'-9"	80'-0"
320	16	11'-7"	1'-1"	80'-0"	320	16	11'-7"	1'-4"	80'-0"	320	16	12'-0"	1'-9"	80'-0"
320	20	15'-10"	1'-4"	80'-0"	320	20	16'-0"	1'-9"	80'-0"	320	20	15'-7"	1'-4"	80'-0"
320	24	19'-10"	1'-7"	80'-0"	320	24	20'-0"	1'-11"	80'-0"	320	24	19'-7"	1'-4"	80'-0"



Roof Slope - 1/4:12  
Tapered Columns with Bypass Girts

Clear Span (LSS)

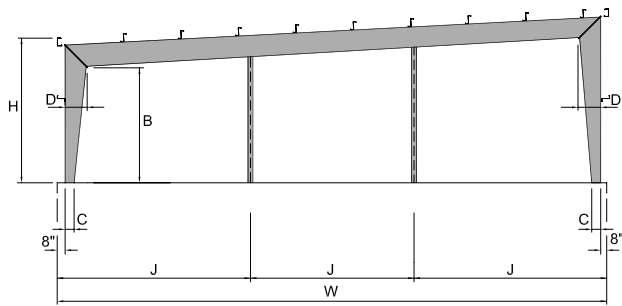
20 PSF Uniform Roof Load					30 PSF Uniform Roof Load					40 PSF Uniform Roof Load				
W	H	B	C	D	W	H	B	C	D	W	H	B	C	D
50	12	9'-4"	0'-11"	1'-8"	50	12	9'-0"	0'-11"	2'-0"	50	12	8'-10"	0'-11"	2'-2"
50	14	11'-2"	0'-11"	1'-10"	50	14	11'-0"	0'-11"	2'-0"	50	14	10'-10"	0'-11"	2'-2"
50	16	13'-2"	0'-11"	1'-10"	50	16	12'-10"	0'-11"	2'-2"	50	16	12'-10"	0'-11"	2'-2"
50	20	17'-2"	0'-11"	1'-10"	50	20	16'-10"	0'-11"	2'-2"	50	20	16'-10"	0'-11"	2'-2"
70	12	8'-4"	0'-11"	2'-9"	70	12	7'-10"	1'-1"	3'-3"	70	12	7'-7"	1'-7"	3'-6"
70	14	10'-4"	0'-11"	2'-9"	70	14	9'-10"	1'-1"	3'-3"	70	14	9'-7"	1'-1"	3'-6"
70	16	12'-4"	0'-11"	2'-9"	70	16	11'-10"	0'-11"	3'-3"	70	16	11'-7"	1'-1"	3'-6"
70	20	16'-4"	0'-11"	2'-9"	70	20	15'-10"	0'-11"	3'-3"	70	20	15'-7"	1'-1"	3'-6"
70	24	20'-1"	0'-11"	3'-0"	70	24	19'-7"	1'-1"	3'-6"	70	24	19'-7"	1'-1"	3'-6"
100	14	9'-7"	1'-7"	3'-6"	100	14	9'-1"	1'-7"	4'-0"	100	14	8'-10"	1'-7"	4'-3"
100	16	11'-7"	1'-1"	3'-6"	100	16	11'-1"	1'-7"	4'-0"	100	16	10'-10"	1'-7"	4'-3"
100	20	15'-6"	1'-1"	3'-6"	100	20	15'-1"	1'-4"	4'-0"	100	20	14'-10"	1'-7"	4'-3"
100	24	19'-4"	1'-4"	3'-9"	100	24	18'-10"	1'-4"	4'-3"	100	24	18'-10"	1'-7"	4'-3"
120	14	9'-1"	1'-7"	4'-0"	120	14	8'-7"	1'-7"	4'-6"	120	14	8'-4"	1'-11"	4'-9"
120	16	11'-1"	1'-7"	4'-0"	120	16	10'-7"	1'-7"	4'-6"	120	16	10'-4"	1'-11"	4'-9"
120	20	15'-1"	1'-7"	4'-0"	120	20	14'-7"	1'-7"	4'-6"	120	20	14'-4"	1'-7"	4'-9"
120	24	18'-7"	1'-4"	4'-6"	120	24	18'-7"	1'-7"	4'-6"	120	24	18'-4"	1'-7"	4'-9"
140	14	8'-7"	1'-7"	4'-6"	140	14	8'-4"	1'-11"	4'-9"	140	14	7'-9"	2'-10"	5'-4"
140	16	10'-7"	1'-7"	4'-6"	140	16	10'-4"	1'-11"	4'-9"	140	16	9'-9"	2'-3"	5'-4"
140	20	14'-7"	1'-7"	4'-6"	140	20	14'-4"	1'-7"	4'-9"	140	20	13'-9"	1'-11"	5'-4"
140	24	18'-7"	1'-7"	4'-6"	140	24	17'-9"	1'-7"	5'-4"	140	24	17'-9"	1'-7"	5'-4"



Roof Slope - 1/4:12  
Tapered Columns with Bypass Girts

1 Interior Column (LSSM1)

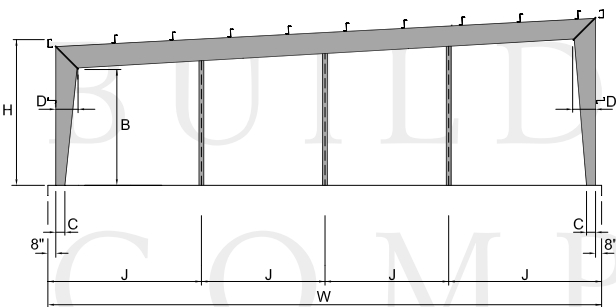
20 PSF Uniform Roof Load						30 PSF Uniform Roof Load						40 PSF Uniform Roof Load					
W	H	B	C	D	J	W	H	B	C	D	J	W	H	B	C	D	J
50	12	10'-2"	0'-11"	1'-0"	25'-0"	50	12	10'-2"	0'-11"	1'-0"	25'-0"	50	12	10'-2"	0'-11"	1'-0"	25'-0"
50	14	12'-0"	0'-11"	1'-0"	25'-0"	50	14	12'-2"	0'-11"	1'-0"	25'-0"	50	14	12'-2"	0'-11"	1'-0"	25'-0"
50	16	14'-2"	0'-11"	1'-0"	25'-0"	50	16	14'-2"	0'-11"	1'-0"	25'-0"	50	16	14'-2"	0'-11"	1'-0"	25'-0"
50	20	18'-0"	0'-11"	1'-0"	25'-0"	50	20	18'-0"	0'-11"	1'-0"	25'-0"	50	20	18'-0"	0'-11"	1'-0"	25'-0"
70	12	9'-4"	0'-11"	1'-8"	35'-0"	70	12	9'-6"	0'-11"	1'-6"	35'-0"	70	12	9'-6"	0'-11"	1'-6"	35'-0"
70	14	11'-4"	0'-11"	1'-8"	35'-0"	70	14	11'-6"	0'-11"	1'-6"	35'-0"	70	14	11'-6"	0'-11"	1'-6"	35'-0"
70	16	13'-4"	0'-11"	1'-8"	35'-0"	70	16	13'-6"	0'-11"	1'-6"	35'-0"	70	16	13'-6"	0'-11"	1'-6"	35'-0"
70	20	17'-4"	0'-11"	1'-8"	35'-0"	70	20	17'-6"	0'-11"	1'-6"	35'-0"	70	20	17'-6"	0'-11"	1'-6"	35'-0"
70	24	21'-4"	0'-11"	1'-8"	35'-0"	70	24	21'-6"	0'-11"	1'-6"	35'-0"	70	24	21'-6"	0'-11"	1'-6"	35'-0"
100	12	9'-2"	0'-11"	1'-10"	50'-0"	100	12	9'-0"	0'-11"	2'-0"	50'-0"	100	12	8'-10"	0'-11"	2'-2"	50'-0"
100	14	11'-0"	0'-11"	2'-0"	50'-0"	100	14	11'-0"	0'-11"	2'-0"	50'-0"	100	14	10'-10"	0'-11"	2'-2"	50'-0"
100	16	13'-0"	0'-11"	2'-0"	50'-0"	100	16	13'-0"	0'-11"	2'-0"	50'-0"	100	16	12'-10"	0'-11"	2'-2"	50'-0"
100	20	17'-0"	0'-11"	2'-0"	50'-0"	100	20	17'-0"	0'-11"	2'-0"	50'-0"	100	20	16'-10"	0'-11"	2'-2"	50'-0"
100	24	21'-0"	0'-11"	2'-0"	50'-0"	100	24	21'-0"	0'-11"	2'-0"	50'-0"	100	24	20'-7"	0'-11"	2'-6"	50'-0"
120	12	8'-7"	0'-11"	2'-6"	60'-0"	120	12	8'-4"	0'-11"	2'-8"	60'-0"	120	12	8'-4"	0'-11"	2'-9"	60'-0"
120	14	10'-7"	0'-11"	2'-6"	60'-0"	120	14	10'-4"	0'-11"	2'-9"	60'-0"	120	14	10'-4"	0'-11"	2'-9"	60'-0"
120	16	12'-7"	0'-11"	2'-6"	60'-0"	120	16	12'-4"	0'-11"	2'-9"	60'-0"	120	16	12'-4"	0'-11"	2'-9"	60'-0"
120	20	16'-7"	0'-11"	2'-6"	60'-0"	120	20	16'-4"	0'-11"	2'-9"	60'-0"	120	20	16'-4"	0'-11"	2'-9"	60'-0"
120	24	20'-7"	0'-11"	2'-6"	60'-0"	120	24	20'-4"	0'-11"	2'-9"	60'-0"	120	24	20'-4"	0'-11"	2'-9"	60'-0"
140	12	8'-1"	0'-11"	3'-0"	70'-0"	140	12	8'-4"	1'-1"	2'-9"	70'-0"	140	12	8'-1"	1'-1"	3'-0"	70'-0"
140	14	10'-1"	0'-11"	3'-0"	70'-0"	140	14	9'-10"	0'-11"	3'-3"	70'-0"	140	14	10'-1"	1'-1"	3'-0"	70'-0"
140	16	12'-1"	0'-11"	3'-0"	70'-0"	140	16	11'-10"	0'-11"	3'-3"	70'-0"	140	16	12'-1"	0'-11"	3'-0"	70'-0"
140	20	15'-10"	0'-11"	3'-3"	70'-0"	140	20	15'-10"	0'-11"	3'-3"	70'-0"	140	20	16'-1"	0'-11"	3'-0"	70'-0"
140	24	19'-10"	0'-11"	3'-3"	70'-0"	140	24	19'-10"	0'-11"	3'-3"	70'-0"	140	24	19'-10"	0'-11"	3'-3"	70'-0"
160	12	7'-10"	1'-1"	3'-3"	80'-0"	160	12	7'-10"	1'-1"	3'-3"	80'-0"	160	12	7'-7"	1'-7"	3'-6"	80'-0"
160	14	9'-10"	0'-11"	3'-3"	80'-0"	160	14	9'-10"	1'-1"	3'-3"	80'-0"	160	14	9'-7"	1'-1"	3'-6"	80'-0"
160	16	11'-10"	0'-11"	3'-3"	80'-0"	160	16	11'-10"	0'-11"	3'-3"	80'-0"	160	16	11'-7"	1'-1"	3'-6"	80'-0"
160	20	15'-7"	0'-11"	3'-6"	80'-0"	160	20	15'-10"	0'-11"	3'-3"	80'-0"	160	20	15'-7"	1'-1"	3'-6"	80'-0"
160	24	19'-7"	0'-11"	3'-6"	80'-0"	160	24	19'-7"	1'-1"	3'-6"	80'-0"	160	24	19'-7"	1'-1"	3'-6"	80'-0"



**Roof Slope - 1/4:12**  
**Tapered Columns with Bypass Girts**

## 2 Interior Columns (LSSM2)

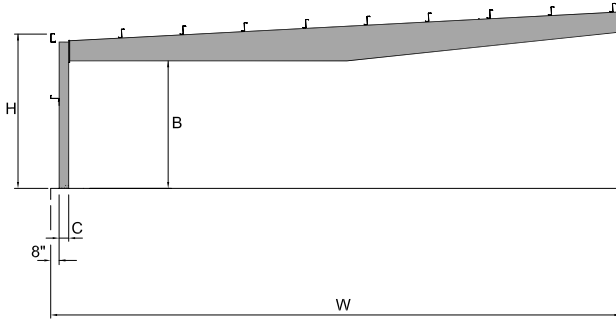
20 PSF Uniform Roof Load						30 PSF Uniform Roof Load						40 PSF Uniform Roof Load					
W	H	B	C	D	J	W	H	B	C	D	J	W	H	B	C	D	J
100	14	11'-9"	0'-11"	1'-3"	33'-4"	100	14	11'-9"	0'-11"	1'-3"	33'-4"	100	14	11'-6"	0'-11"	1'-6"	33'-4"
100	16	13'-9"	0'-11"	1'-3"	33'-4"	100	16	13'-9"	0'-11"	1'-3"	33'-4"	100	16	13'-6"	0'-11"	1'-6"	33'-4"
100	20	17'-9"	0'-11"	1'-3"	33'-4"	100	20	17'-9"	0'-11"	1'-3"	33'-4"	100	20	17'-6"	0'-11"	1'-6"	33'-4"
100	24	21'-6"	0'-11"	1'-6"	33'-4"	100	24	21'-6"	0'-11"	1'-6"	33'-4"	100	24	21'-6"	0'-11"	1'-6"	33'-4"
150	14	11'-2"	0'-11"	1'-10"	50'-0"	150	14	11'-2"	0'-11"	1'-10"	50'-0"	150	14	10'-10"	0'-11"	2'-2"	50'-0"
150	16	13'-2"	0'-11"	1'-10"	50'-0"	150	16	13'-2"	0'-11"	1'-10"	50'-0"	150	16	12'-10"	0'-11"	2'-2"	50'-0"
150	20	17'-2"	0'-11"	1'-10"	50'-0"	150	20	17'-2"	0'-11"	1'-10"	50'-0"	150	20	16'-10"	0'-11"	2'-2"	50'-0"
150	24	21'-2"	0'-11"	1'-10"	50'-0"	150	24	21'-2"	0'-11"	1'-10"	50'-0"	150	24	20'-10"	0'-11"	2'-2"	50'-0"
200	14	10'-1"	0'-11"	3'-0"	66'-8"	200	14	10'-4"	0'-11"	2'-9"	66'-8"	200	14	10'-1"	1'-1"	3'-0"	66'-8"
200	16	12'-1"	0'-11"	3'-0"	66'-8"	200	16	12'-1"	0'-11"	3'-0"	66'-8"	200	16	12'-1"	0'-11"	3'-0"	66'-8"
200	20	16'-1"	0'-11"	3'-0"	66'-8"	200	20	16'-1"	0'-11"	3'-0"	66'-8"	200	20	16'-1"	0'-11"	3'-0"	66'-8"
200	24	20'-1"	0'-11"	3'-0"	66'-8"	200	24	20'-0"	0'-11"	3'-0"	66'-8"	200	24	20'-1"	0'-11"	3'-0"	66'-8"
240	14	9'-10"	1'-1"	3'-3"	80'-0"	240	14	10'-1"	1'-1"	3'-0"	80'-0"	240	14	9'-10"	1'-7"	3'-3"	80'-0"
240	16	11'-10"	1'-1"	3'-3"	80'-0"	240	16	12'-1"	1'-1"	3'-0"	80'-0"	240	16	11'-7"	1'-1"	3'-6"	80'-0"
240	20	15'-10"	0'-11"	3'-3"	80'-0"	240	20	16'-1"	0'-11"	3'-0"	80'-0"	240	20	15'-7"	1'-1"	3'-6"	80'-0"
240	24	19'-10"	0'-11"	3'-3"	80'-0"	240	24	20'-1"	1'-1"	3'-0"	80'-0"	240	24	19'-7"	1'-1"	3'-6"	80'-0"



**Roof Slope - 1/4:12**  
**Tapered Columns with Bypass Girts**

## 3 Interior Columns (LSSM3)

20 PSF Uniform Roof Load						30 PSF Uniform Roof Load						40 PSF Uniform Roof Load					
W	H	B	C	D	J	W	H	B	C	D	J	W	H	B	C	D	J
120	14	12'-0"	0'-11"	1'-0"	30'-0"	120	14	12'-0"	0'-11"	1'-3"	30'-0"	120	14	11'-9"	0'-11"	1'-3"	30'-0"
120	16	14'-0"	0'-11"	1'-0"	30'-0"	120	16	13'-9"	0'-11"	1'-3"	30'-0"	120	16	13'-9"	0'-11"	1'-3"	30'-0"
120	20	18'-0"	0'-11"	1'-0"	30'-0"	120	20	18'-0"	0'-11"	1'-3"	30'-0"	120	20	17'-9"	0'-11"	1'-3"	30'-0"
120	24	21'-6"	0'-11"	1'-6"	30'-0"	120	24	21'-6"	0'-11"	1'-6"	30'-0"	120	24	21'-6"	0'-11"	1'-6"	30'-0"
160	14	11'-6"	0'-11"	1'-6"	40'-0"	160	14	11'-4"	0'-11"	1'-8"	40'-0"	160	14	11'-6"	0'-11"	1'-6"	40'-0"
160	16	13'-6"	0'-11"	1'-6"	40'-0"	160	16	13'-4"	0'-11"	1'-8"	40'-0"	160	16	13'-4"	0'-11"	1'-8"	40'-0"
160	20	17'-6"	0'-11"	1'-6"	40'-0"	160	20	17'-4"	0'-11"	1'-8"	40'-0"	160	20	17'-4"	0'-11"	1'-8"	40'-0"
160	24	21'-6"	0'-11"	1'-6"	40'-0"	160	24	21'-4"	0'-11"	1'-8"	40'-0"	160	24	21'-4"	0'-11"	1'-8"	40'-0"
200	14	11'-2"	0'-11"	1'-10"	50'-0"	200	14	11'-2"	0'-11"	1'-10"	50'-0"	200	14	11'-0"	0'-11"	2'-0"	50'-0"
200	16	13'-2"	0'-11"	1'-10"	50'-0"	200	16	13'-2"	0'-11"	1'-10"	50'-0"	200	16	12'-10"	0'-11"	2'-2"	50'-0"
200	20	17'-0"	0'-11"	2'-0"	50'-0"	200	20	17'-0"	0'-11"	2'-0"	50'-0"	200	20	16'-10"	0'-11"	2'-2"	50'-0"
200	24	21'-0"	0'-11"	2'-0"	50'-0"	200	24	21'-0"	0'-11"	2'-0"	50'-0"	200	24	20'-10"	0'-11"	2'-2"	50'-0"
280	14	10'-1"	0'-11"	3'-0"	70'-0"	280	14	10'-1"	0'-11"	3'-0"	70'-0"	280	14	10'-1"	1'-1"	3'-0"	70'-0"
280	16	12'-1"	0'-11"	3'-0"	70'-0"	280	16	12'-1"	0'-11"	3'-0"	70'-0"	280	16	12'-1"	0'-11"	3'-0"	70'-0"
280	20	16'-1"	0'-11"	3'-0"	70'-0"	280	20	15'-10"	0'-11"	3'-3"	70'-0"	280	20	16'-1"	0'-11"	3'-0"	70'-0"
280	24	20'-1"	0'-11"	3'-0"	70'-0"	280	24	19'-10"	0'-11"	3'-3"	70'-0"	280	24	20'-1"	0'-11"	3'-0"	70'-0"
320	14	9'-10"	0'-11"	3'-3"	80'-0"	320	14	9'-10"	1'-1"	3'-3"	80'-0"	320	14	9'-10"	1'-1"	3'-3"	80'-0"
320	16	11'-10"	0'-11"	3'-3"	80'-0"	320	16	11'-10"	0'-11"	3'-3"	80'-0"	320	16	11'-10"	1'-1"	3'-3"	80'-0"
320	20	15'-7"	0'-11"	3'-6"	80'-0"	320	20	15'-7"	0'-11"	3'-6"	80'-0"	320	20	15'-10"	1'-1"	3'-3"	80'-0"
320	24	19'-7"	0'-11"	3'-6"	80'-0"	320	24	19'-7"	1'-1"	3'-6"	80'-0"	320	24	19'-10"	1'-1"	3'-3"	80'-0"



**Roof Slope - 1/4:12**  
**Straight Columns with Bypass Girts**

## Clear Span (LT)

20 PSF Uniform Roof Load				30 PSF Uniform Roof Load				40 PSF Uniform Roof Load			
W	H	B	C	W	H	B	C	W	H	B	C
10	10	8'-2"	0'-11"	10	10	8'-2"	0'-11"	10	10	8'-0"	0'-11"
10	12	10'-2"	0'-11"	10	12	10'-2"	0'-11"	10	12	10'-0"	0'-11"
10	14	12'-2"	0'-11"	10	14	12'-2"	0'-11"	10	14	12'-0"	0'-11"
10	16	14'-2"	0'-11"	10	16	14'-2"	0'-11"	10	16	14'-0"	0'-11"
10	20	18'-2"	0'-11"	10	20	18'-2"	0'-11"	10	20	18'-0"	0'-11"
10	24	22'-2"	0'-11"	10	24	22'-2"	0'-11"	10	24	22'-0"	0'-11"
30	12	9'-9"	0'-11"	30	12	9'-9"	1'-1"	30	12	9'-6"	0'-11"
30	14	11'-9"	0'-11"	30	14	11'-9"	1'-1"	30	14	11'-6"	0'-11"
30	16	13'-9"	0'-11"	30	16	13'-9"	1'-1"	30	16	13'-6"	0'-11"
30	20	17'-9"	0'-11"	30	20	17'-7"	0'-11"	30	20	17'-6"	0'-11"
30	24	21'-9"	0'-11"	30	24	21'-7"	0'-11"	30	24	21'-6"	0'-11"
40	14	11'-6"	0'-11"	40	14	11'-4"	0'-11"	40	14	11'-4"	0'-11"
40	16	13'-6"	0'-11"	40	16	13'-4"	0'-11"	40	16	13'-4"	0'-11"
40	20	17'-6"	0'-11"	40	20	17'-4"	0'-11"	40	20	17'-4"	0'-11"
40	24	21'-6"	0'-11"	40	24	21'-4"	0'-11"	40	24	21'-4"	0'-11"

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