

Complete Custom Metal Building Design and Pricing Software
The most advanced metal building design and pricing system on the planet!

Complete Custom Metal Building
Design
The most advanced metal building design and pricing system on the planetI


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Design and Pricing Soflwa MON

## Ladies and Gentlemen, we have arrived! Welcome to IQS - the most advanced metal building design and pricing system on the planet! I would like to personally thank you for your interest in our products and services!

With IQS, the power is in your hands. You are at the command of the world's first and only "real-time" design system, giving you the power to create an almost endless array of pre-engineered buildings in seconds. You will not find another system that gives you the flexibility to create structures for Add-On buildings, Lean-To buildings, Open Walled, Non-symmetrical shapes, Single Slopes, Gables, Modular buildings to 150,000 square feet and an almost endless array of aircraft hangar buildings can be created using IQS - including modular hangar structures with multiple hangar door openings. All of this is available to you in a fully-rendered 3D graphical interface with the power to produce a set of approval drawings, literally in seconds.

If you're thinking it sounds too good to be true, we are not surprised. Not a single company in the pre-engineered building business has accomplished this feat... until now. An enormous effort has been made to provide you with this revolutionary system. Not only do we have plans to continue the further development of IQS, it is our core focus. As an IQS user, you will have the power of design, but more importantly you will be able to use business
 logic built into the system. What this means to you is that you will be able to search jobs by customer name, city, zip, phone number or any other customer related data. In today's fast paced world you need complete flexibility in your system, and we are bringing it all to you.

Our future plans include a host of enhancements and by late 2008 we should be on track to release a new design add-on to IQS. This plug-in will allow you to combine projects together, like high-low roof step downs, or combining 2 to 10 different buildings together. It will produce Foundation Plans and specs on-the-fly by December of 2008 - bringing a force of value unmatched in our industry.


> Sincerely,

Mark Moore
Founder \& Chairman
ICON Building Systems

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Note: All prices and measurements reflected in this document are for sample purposes only and in no way reflect actual costs or measurements.



Click to generate a price list or to save changes to your currently open job.
Note: a quote must be run in order to save any changes to your job to ensure all data related to this job is current
In the quote window, you will have the following selections:
Save - saves the current job with revisions
Create a Purchase Order-generates a multi-page purchase order document in PDF format for the customer to review and sign, including approval drawings of the building. Once the purchase order is created it can still be downloaded later using the Download purchase order button
Note: Once a PO is created, the job cannot be revised unless it is reopened for quoting. This option will appear in the main menu as an "open lock" if available to a job. The entire job will not need to be started over.
Print - sends the pricing overview to the printer
Print Preview - Preview the document as it will be printed prior to actually printing




Click, hold and drag anywhere within this frame to reposition the 3D rendering. Rotate the rendering by using the slider arrow directly underneath.
Zoom in and out of the 3D rendering using the scroll-wheel on your mouse.
Note: View a 3D elevation and the corresponding elevation drawing by selecting one of the four elevation views represented in the lower right corner of the 3D view frame.
Note: To print or save an image file of the 3D rendering, select "Tools" from the main menu.


Click，hold and drag anywhere within this frame to reposition the elevation drawing
Zoom in and out of the elevation drawing using the scroll－wheel on your mouse．
Note：View an elevation drawing and the corresponding 3D elevation by selecting one of the four elevation views represented in the lower right corner of the 3D view frame．


Insets left 0 图 Insets right 0 图 Interior column editor
Dead 2.5 图 Live 20.0 图 Ground Snow 12.0 图 Collateral 0.5 图

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Much of this data will be automatically populated based on the Site information provided. The Measurement system by default is "Imperial", which is standard for continental U.S. measurements.

## Building Code

Building codes are intended to provide for the safe use of buildings and structures under "normal" conditions. The code describes exactly how each part of the building should be loaded and designed. These loads are based on Snow load, Wind Speed, Seismic Coefficient (earthquake), Collateral load and Exposure. These loads will be applied in various "Design Combination" to determine the most critical loading. From these combinations all member sizes and spacing will be determined.
IQS determines the building code based on the job site's zip code. The most common building code is IBC.
For a more detailed explanation of building codes see topic Building Codes Explained.

## Wind Speed

As wind blows it places pressure and suction on the building surfaced. The exact pressure/load is based not only on the formulas and tables contained in the specific building code chosen, but also the size and shape of your building. By entering the Wind Speed, IQS designs the optimum structural member sizes and their spacing.

## Wind Exposure



The characteristics of ground surface irregularities (natural topography and vegetation as well as constructed features) for the site at which the building is to be constructed.


## Wind Exposure (cont.)

Exposure A: Large city centers with at least $50 \%$ of the buildings having a height in excess of 70 feet.
Exposure B: Urban and suburban areas, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger.
Exposure C: Open terrain with scattered obstructions.
Exposure D: Flat, unobstructed areas exposed to wind flowing over open water (excluding shorelines in hurricane prone regions) for a distance of at least 1 mile.

## Seismic Coefficient

This is the influence of earthquake activity on your steel building. The higher this number the more influence seismic has or the greater the seismic loading. Some building codes such as the Uniform Building Code (UBC) or the California Building Code (CBC) also use seismic zone. These also influence seismic design; Zone 0 having the least influence and Zone 4 having the greatest.

## Seismic Zone / Site Classification

The seismic zone/site classification is a gauge of your soil's capacity to transmit activity from the lower soil to the upper surface. Usually this data is provided by a local Geotechnical Engineer or the Local Project Engineer. If site soil conditions are not identified to establish the site class, IBC allows you to use site class "D". Zone/Site Classification as follows:

## Soil Description

- A = Hard Rock
- B = Rock
- $C=$ Very dense soil and hard rock
- D = Stiff Soil
- E = Soft Soil
- F = Weak Soil
" E " and " F " are unique soil conditions and require special design considerations, which may result in increased engineering design and/or foundation cost. Contact a local Professional Engineer for foundation requirements and soil testing.


## Engineering Package

You should determine if your building requires certified/stamped drawings and/or design calculations from a registered structural engineer licensed in your state. Please contact your local building official for this information prior to ordering a building.

## Load Reduction Allowed

Determine the correct roof live load, if your local code stipulates that load reduction is not allowed un-check the "Load Reduction Allowed" checkbox.

## Foundation Plans

Check this if you are required to have Engineer Stamped plans to satisfy your local permit office, or if you prefer to build your foundation according to specified plans.

## Notes to Customer

A place to input Additional Notes about the job is available here.


## Roof Pitch Profiles

IQS allow users to set a roof pitch value infinitely between 0.5:12 and 8:12
(provided the eave limits are not exceeded) IQS constrains the wall heights.
Note: Currently wall heights up to 30 feet are supported.


## Sheeting Condition

## Choices are:

- Fully sheeted (default).
- Roof only to remain open
- Roof only to be enclosed
- Partially sheeted to remain open
- Partially sheeted to be enclosed

Choose the proper building sheeting condition. "Enclosed" means the building is completely enclosed in some material. That material can vary from sheets, masonry, or even another enclosed building. "Partially Enclosed" means either the building is completely open to a given elevation, or that part of the building is open and part is enclosed. "Open" means that the building is completely open to remain open.

## Back Eave Height

Eave height to the back of the building.

## Front Eave Height

Eave height to the front of the building

## Inset

Defines the number of inset roof bays. At least one bay must remain not being inset.


Illustration of Roof Only To Remain Open


Asymmetrical Frame Profile Demonstrates Different Front and Back Eave Heights


## Rigid Frame Types

## Rafters

Choices are tapered and straight (tapered is default). Choosing a straight rafter over a tapered is typically to achieve a particular design style. There is little to no benefit of having a straight (constant depth) over tapered outside of architectural design considerations. Buildings utilizing constant depth rafter members usually have the rafters exposed and are a part of a design finish and allow a more consistent look throughout the roof system.

Constant depth rafters are usually more costly than tapered.

## Columns

Column types are straight and tapered (tapered is default). Some projects may require the use of straight columns for a particular finish result.

Tapered columns are the industry standard and are usually the optimum choice, and less costly than straight columns. The larger the building is the more economical tapered members become.

Large spans utilizing straight rafters will be more costly than with tapered members.


Straight Rafter, Straight Column


Tapered Rafter, Tapered Column


Straight Rafter, Tapered Column


## Rigid Frame Profiles

The following profiles are supported:

- Gable (default): This is a symmetrical building with equal eave heights and the peak in the center of the end wall. This the most common type of frame profile.
- Single slope: Here the peak or high point of the building is at one end. Side wall eave heights will not be at the same height.
- Asymmetrical: This building either has sidewalls that are not the same height or a peak that is not in the center of the end wall or both.
- Lean-to: the building is a single slope building that will be attached to a large building. It will be connected on its front side.

Multi-surface roofs are available via special quote.
Note: Future plans for IQS development include Gambrel and Raised Center Aisle Buildings.


Single Slope Frame Profile


Asymmetrical Frame Profile


Lean-To Frame Profile


Double Slope (Gable) Frame Profile

## Base Conditions

Currently IQS provides 3 framing conditions, standard angle, base channel and base girt. Every metal building has some type of base connection along the building perimeter, allowing the connection of sheeting. This "base condition" determines exactly how the panels connect to the foundation. To prevent water and pests from entering the building at the base, panels extend below the finished floor of the building.
Base girt elevation default is 6 inches above grade.
Note: For partial wall conditions the default member is CEE.


## Side Wall Girt

Bypass sidewall girts are the most economical choice. However, applications require more clearance between columns. Choosing flush sidewall girts will inset the rigid frame into the girt cavity, thus creating a slightly larger clearance between the rigid frames. Many schools and retail applications utilize flush sidewall systems.


## Interior column editor

When the building width is $165^{\prime}$ or higher, then the frames need to be supported by interior columns. The building is then referred to as a so-called modular building, whereas without interior columns it would be a clear span building. IQS warns the user when interior columns are not defined while they should be. Press the Interior column editor link in the Building tab to pop up the Frames editor dialog. IQS allows 4 different frames to be defined. By default only one frame is defined. To add a frame, press the Add frame button in the top menu.
Each frame can have its own column spacing settings. To change the column spacing for a frame, press the Edit button for that frame, and the Frame Editor dialog will pop up.
A frame can be assigned to a frame line. A frame line is a physical frame in the building, whereas a frame is a template for a frame line. To assign a frame to one or more frame lines, take the following steps:

- Select the frame you want to assign in the Frames list.
- Select the frame lines you want to assign the selected frame to in the bottom list. Multiple frame lines can be selected simultaneously by holding the Ctrl key while mouse clicking on a row to toggle a single frame line, or by holding the Shift key while mouse clicking on a row to select a range.
- Click the Assign selected frame to selected frame lines button in the top menu


An example of a 150 ft wide clear span building

An example of a 200 ft wide modular building (with 2 interior columns per frame line)

## Interior column editor

The frame editor allows the user to define interior column spacings for a frame. It allows two ways of defining these spacings:

- Equally spacing columns by specifying the number of interior columns. This is the easiest way, since the real column spacings will change automatically as the building width changes while designing the building. Click the Equally spaced columns radio button to use this type of spacing.

- If the user chooses the User defined column spacing option, then he can specify exactly where the interior columns need to be placed. In the example below the spacings are $60^{\prime}$ and $70^{\prime}$, meaning that they are placed 60' and $130^{\prime}$ from the back wall.


Select additional options for your building including wall and roof insulation thickness as well as full or 8 foot lining. Other options available include:

## Insulation

The metal building is rapidly becoming more popular for a variety of reasons. They can be built very quickly and are extremely low in cost. They can easily adapt to any number of external architectural treatments without restricting their interior floor planning. A primary reason for this flexibility is the development of insulation specifically designed for metal buildings. The development of advanced insulation systems with more efficient thermal performance is so advanced that it has enabled metal buildings everywhere to evolve into many of the showrooms, retail outlets, schools, offices and shopping centers we see today.
Today's high-energy costs have made insulation a critical consideration during any construction planning. An insulation system that is properly selected and professionally installed will return more on its investment than any other building component. Insulation provides many benefits:

- Improved appearance
- Greater comfort
- Substantial reductions in fuel and electricity costs
- Condensation and noise control
- Reduction of the amount of investment dollars and space needed for heating and cooling equipment.

INSULATION WILL RETURN MORE ON ITS INVESTMENT THAN ANY OTHER BUILDING COMPONENT.

Note: when insulation is added to a building, it is shipped separately and extra shipping costs are involved. IQS allows choosing the wall and roof insulation independently:


- Wall: no wall insulation or three, four or six inch of insulation can be chosen (default is none).
- Roof: no roof insulation or three, four or six inch of insulation can be chosen (default is none).


## Liner

- Wall: choices for wall liner are none, eight foot or full (default is none).
- Roof: choices for wall liner are none or full (default is none).

Miscellaneous

- Base Trim: specify whether base trim is included (by default not included).


Base Trim without Sheet Notch


Base Trim with Sheet Notch

- Gutter: specify whether gutter is included (by default not included). Gutters and downspouts are an optional accessory that serves as trim. Gutters dramatically improve the appearance of buildings, and we recommend them for most building applications. Downspouts control the water falling from the roof, preventing the water from splashing up on the sides of the building.
- Sheet Notch: specify whether sheet notch is included (included by default).
- Cover Trim: specify whether cover trim is included (included by default). Though common, the red-iron jamb and header around a door opening are normally exposed. Using jamb cover trim is an inexpensive way to improve the appearance of your steel building.
- Wainscot Height: specify the wainscot height (default the building has no wainscot).


## Sheet Metal Thickness Gauges

By default a the sheet metal thickness gauge for wall and roof is 26 . Optionally, the thicker 24 gauge can be chosen.

## Wall Conditions

The walls tab allows the user to add or modify a host of building features with just a few mouse clicks. Select from a variety of end wall frame conditions including bearing frame (default), hot-rolled rafter, non-expandable rigid frame or expandable rigid frame.
A standard box building generally has bearing frame end walls. The bearing frame end wall consists of vertical columns that support the rafters. This type of end wall is also known as "post and beam" or non-expandable end wall.
A hot-rolled rafter end wall utilizes a standard wide flange beam (l-beam) section as the rafter; this allows more headroom above the door. By setting directly on top of the end wall columns, instead of fastened to the back of the columns as would occur with a cold formed CEE rafter, the hot-rolled rafter allows for unobstructed clearance from the door header to the underside of the roof purlins.
Note: If a lean-to building is attaching to the building we require a minimum of hot-rolled rafter for end wall frame that will have attaching lean-to building(s). We will NOT design a lean-to building using a cold-formed rafter (standard bearing frame).
A non-expandable rigid frame is normally used when large or multiple doors or windows are placed in an end wall. IQS calculates the capacity of the end wall frame types and designs the appropriate end wall frame type required. If there are specific requirements that you desire you may input them, but please remember that if IQS detects that the end wall condition fails structurally, the program will automatically design an end wall to ensure proper design. Roof only buildings will have a nonexpandable rigid frame unless the user specifies fully loaded. We suggest using a non-expandable rigid frame if there is a lean-to building attaching at the corner of the side/end wall.
An expandable rigid frame is used primarily when future expansion is desired. All hangar door buildings are designed utilizing a properly loaded rigid frame. In the case of the hangar door, the rigid frame is not considered expandable unless the hangar door system is removed, allowing the building to be expanded.


## Roof Extension

Users can add side wall and gable roof extensions to one or all sides of a building by mouse clicking or entering the desired size in the "Roof Extension" box. Sizes can vary per wall and soffit can be excluded by un-checking the "Include Soffit" checkbox.
Note: Buildings have no roof extension by default. If desired, they will need to be added. The sample building below has 4 foot roof extensions on all sides. Maximum extensions are 8 ft for left and right end wall, and 5 ft for front and back sidewall.

The "Open" feature allows for complete removal of any wall of the building. If the wall is to remain open permanently you must select "Partially Sheeted To Remain Open" under the "Type" option of the Building tab. If the wall is designed to be enclosed "By Others" IQS assumes that the wall system will be self supporting and NO lateral support of the wall is allowed. If the wall system being added by others requires lateral support please contact your salesperson for a special quote.
Note: Future plans for IQS will allow the user to design a Spandrel Beam that will carry the entire or partial wall load.

## Options

Users can use the option button to specify girt specific individual girt locations in all walls. When specifying one or more girt locations IQS will consider the specified locations as part of the design and optimize the balance
of required framing members. Users can specify an Interval distance of girt spacing for use with alternate wall materials. Front and Back side wall eave extensions can be added per bay by clicking the Options button, otherwise the entire wall can be specified to have eave extensions by changing the dimensions in the Roof Extension box.


## Bracing Type

Select from bracing types including Panel Shear (default), Diagonal Bracing, Wind Column or Portal Framing. Users can specify the type of bracing desired, or the minimum they desire. However if IQS detects there is not sufficient bracing, the program will add bracing to satisfy the requirement.
Example, if a user specifies cable bracing, and there is not a sufficient number of bays that can be braced the program will attempt to place any number of combinations of bracing until the bracing requirement is met. If a user chooses diagonal bracing and a door opening is placed in every side wall bay the program will attempt to use one or more portal frames. In the event there is not enough room above the doors to ensure proper headroom clearance, the program will utilize one or more wind columns to meet the bracing requirement.

End wall bracing is seldom used. There are many reasons IQS will not design using diagonal bracing in an end wall. Slots are required in the secondary framing to allow for diagonal bracing, thus weakening the girts and it is our interpretation that the end wall typically suffers the most from wind loading, and we do not use diagonal bracing in end walls with a flush girt condition. If IQS detects that there is not sufficient available panel shear, the program will select the minimum sized Rigid Frame to satisfy the design requirement.

## Roof Purlins

IQS will design the roof system (secondary framing) in the most optimized manner. Roof Purlins are automatically sized and spaced; however, they can be manually spaced as necessary. If alternate roofing material is desired, i.e. shingles over plywood, then select the required spacing and add the material weight to the Dead Load on the Building Tab.
Note: Peak spacing should be set to a minimum distance if wood sheeting is used for the roof material.
To remove Roof Panels check Remove Sheeting on the under the Sheeting heading. To specify a specific panel shear capacity for materials supplied by others please contact your salesperson.
Miscellaneous
Options available are to include the soffit; the exterior panel applied to the underside of roof





## Door Type (Door Opening)

Currently there are 3 choices:

1. NONE: No door type is considered
2. ROLL-UP: Standard Roll-Up Door specifications are considered.
3. SECTIONAL: Standard Sectional Door specifications are considered.
Note: IQS typically designs around common headroom constraints per door type. If you are unsure about your headroom requirements please check with your salesperson or consult the door manufacturer and headroom requirements.

## Opening Type (Door Opening)

Currently there are 4 choices:

1. FACTORY LOCATE: Choose this option when you are sure of the framed openings location in the building. Selecting this will result in the door frame being designed into the wall chosen. All secondary framing (i.e. wall girts) will be cut to fit the opening. Installing the door frame with this selection will be much easier than a field located door.
2. FIELD LOCATE: Choose this option when you are unsure of the exact door location. This option will require the cutting of secondary framing members. Please note that you must never remove a column to place a door.
!!! -REMOVING A COLUMN MAY RESULT IN A DANGEROUS SITUATION. PLEASE CONSULT THE MANUFACTURER PRIOR TO REMOVING A COLUMN OR VERTICAL FRAMING MEMBER. -!!!
3. SHEETED FOR FUTURE USE: Use this option when you would like the option of having a factory located framed opening in your building, but are not currently ready for its installation. Girts and sheeting will be provided to completely cover the opening.
Note: trim will not normally come with this option.
4. INCLUDE SHEETING (no girts): Use this option when you require additional sheeting for a door that is to be built by others utilizing the same wall panel material.
Note: Please confirm that the area of the actual opening will be sufficient to cover the door. If the door is oversized there will not be enough material to cover.

## Offset

You can specify the location of the door by changing the offset location in the offset control.

## Width (Applies to all)

You are able to specify the door width by adjusting the dimension in the WIDTH tab. Though it is not recommended, IQS will allow columns to be used for door jambs in the event the bay spacing is set properly to allow this. Normally a door can be placed in a bay and take up the entire width of that bay. Adjacent bays will have a minimum of 1 foot offset from the door edge. End wall corner columns will have 2 foot minimum edge clearance. See OFFSET for more details on end wall corner minimum spacing.

## Top (Applies to all)

You are able to specify the door or window height by adjusting the TOP dimension. Constraints are place on framed openings to accommodate most door types. Currently IQS requires a 2 foot minimum distance ABOVE the door. This distance is calculated to the nearest roof edge on sidewalls and to the underside of roof purlins on end walls. Normally slide doors located on end walls are no higher than the side wall eave height unless there is sufficient space to accommodate a horizontal path wide enough to create clearance to the nearest roof line. Note: please call your sales rep if you are unsure about slide door requirements.

## Sill (Window)

You are able to specify the sill height of a window opening by adjusting the dimension in the SILL tab.
Note: adjusting the sill height will not adjust the TOP height.

## Wide Opening (Large Door)

To place a wide opening in an END WALL (only) you must first adjust the end wall bay spacing to accommodate the door opening. Multiple wide openings can exist in each end wall, however we typically suggest a maximum of 3 wide openings per end wall with a collective opening width (per wall) of no more than 180 feet.
We will use a single opening for our example of properly placing a wide opening in the end wall of a building. We will use a 60 foot wide building with a 50 foot wide (hangar) opening. There are 3 bays by default, therefore there is no need to remove any bays. If there were more than 3 bays, we would delete all but 3 for this example.
FIRST we set the bays to (bay 1) 10 feet, 50 feet (bay 2) and 10 feet (bay 3) from left to right.
SECOND we then highlight BAY 2 and mouse click the wide opening button. The wide opening fills the entire bay. The wide opening will always fill the bay selected unless there are adjacent doors restricting or enforcing an offset.

## THIRD Select the Wide Opening DOOR

 TYPE and adjust any accompanying requirements to suit your specific needs. All end wall doors (including wide openings) are restricted to default clearances. If your application requires a lesser clearance, you may need to get a special quotation.

GENCY PROCEDURES. DAILY MEETINGS HIGHLIGHTING SAFETY PROCEDURES ARE ALSO
APPLICABLE, ARE RECOMMENDED.
PRIMER

|  | PRIMER SHOP PRIMER PAINT IS A RUST INHIBITIVE PRIMER, WHICH MEETS THE END PERFORMANCE OF FEDERAL SPECIFICATION TT-P-636 AND IS MFG RED OXIDE COLOR. THIS PAINT IS NOT INTENDED FOR LONG-TERM EXPOSUR TOTHE ELEMENTS. MFG II NOT RESPONSIBLE FOR ANY DETERIIRATINNOF THE SHOP PRIMER PAINT AS A RESULT OF IMPROPER HANDLING ANDIT ANDOR MFG SHALL NOT BE RESPONSIBLE FOR ANY FIELD APPLIED PAINT AND/OR COATINGS. (SECTION 6.5 AISC CODE OF STANDARD PRACTICE 9TH EDITION) NORMAL THICKNESS OF PRIMER SHALL BE 1 MIL UNLESS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS. |
| :---: | :---: |
|  | GALVANIZED OR SPECIAL COATINGS SEE CONTRACT DOCUMENTS. |
|  | LTS ARE 0 |
|  | A) EAVE STRUT CONNECTION - $1 / 22^{\prime \prime} \times 0^{0}-1-1 / 1 / 2^{\prime \prime}$ A307 <br> B) B) END WALL RAFTER SPLICE-5/8" $\times 0^{0}-1-3 / 44^{\text {A }}$ A $225-\mathrm{N}$ <br> D) D) MAIN FRAME CONNECTIONS - SEE CROSS SECTION <br>  |
|  | A325 BOLT TIGHTENING REQUIREMENTS ALL HIGH STRENGTH BOLTS ARE A325-N UNLESS NOTED OTHERWISE. |
|  |  |
|  | ALL BOLTED CONNECTIONS UNLESS NOTED ARE DESIGNED AS BEARING CONNECTIONS WITH THREADS NOT EXCLUDED FROM THE SHEAR PLANE. |
|  | CLOSURE STRIPS ARE FURNISHED ONLY |
|  | INSIDE - UNDER ROOF PANELS AT EAVE OUTSIDE - BETWEEN END WALL PANELS AND RAKE TRIM UNDER CONTINUOUS RIDGE VENT SKIRTS |
|  | ERECTION NOTE: <br> ALL BRACING, STRAPPING, \& BRIDGING SHOWN AND PROVIDED BY MFG FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE. IF ADDITIONAL BRACING IS REQUIRED FOR STABILITY DURING ERECTION, IT SHALL BE THE ERECTOR'S RESPONSIBILITY TO DETERMINE THE AMOUNT OF SUCH BRACING AND TO PROCURE AND INSTALL AS NEEDED. |
|  | ERECTION AND UNLOADING Not by mag |
|  | SHORTAGES <br> ANY CLAIMS OR SHORTAGES BY BUYER MUST BE MADE TO MFG WITHIN SEVEN <br> (7) DAYS AFTER DELIVERY, OR SUCH CLAIMS SHALL BE CONSIDERED WAIVED <br> BY THE CUSTOMER AND DISALLOWED. |
|  | CORRECTIONS OF ERRORS AND REPAIRS (MBMA 6.10) <br> CLAIMS FOR CORRECTION OF ALLEGED MISFITS WILL BE DISALLOWED UNLESS MFG SHALL HAVE RECEIVED PRIOR NOTICE THEREOF AND ALLOWED <br> REASONABLE INSPECTION OF SUCH MISFITS. THE CORRECTION OF MINOR MISFITS BY THE USE OF DRIFT PINS TO DRAW THE COMPONENTS INTO LINE, <br> MODERATE AMOUNTS OF REAMING, CHIPPING, SHIMMING AND CUTTING, AND THE REPLACEMENT OF MINOR SHORTAGES OF MATERIAL ARE A NORMALPART OF ERECTION AND ARE NOT SUBJECT TO CLAIM. NO PART OF THE BUILDING MAY BE RETURNED FOR ALLEGED MISFITS WITHOUT THE PRIOR APPROVAL OF MFG. |
|  | BUILDING SPECIFICATIONS <br> THE STRUCTURE UNDER THIS CONTRACT HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITIONS STIPULATED IN THE CONTRACT AND SHOW ON THESE DRAWINGS. ANY ALTERATIONS TO THE STRUCTURAL SYS REMOVAL OF ANY COMPONENT PARTS OR THE ADDITION OF OTHER <br> CONSTRUCTION MATERIALS OR LOADS MUST BE DONE UNDER THE ADVICE OF A REGISTERED ARCHITECT, CIVIL OR STRUCTURAL ENGINEER. MFG WILL NOT ASSUME RESPONSIBLLITY FOR ANY LOADS NOT INDICATED. |
|  | WARNING <br> INSTALL THIS BUILDING AND ALL ITS PARTS PER THESE DRAWINGS. NO CHANGES SHOULD BE MADE TO THIS BUILDING SYSTEM UNLESS APPROVED IN WRITING BY THE MANUFACTURER'S ENGINEERS. UNAPPROVED CHANGES COULD RESULT IN UNSAFE BUILDING DESIGN AND COULD ENDANGER PUBLIC SAFETY. |
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| MMF HAS A COMMITMENT TO MANUFACTURE QUALITY BULLDINGS THAT CAN BE OF THE ERECTOR ARE BEYND THE CONROLOM M MG. TIISTROBNGY OECOMMENDED THAT SAFE WORKING CONDITIONS AND ACCIDENT PREV <br> RECOMMENDED THAT SAFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES ARE THE TOP PRIORTY OF ANY JOB SITE. LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS SHOULD ALWAYS BE FOLLOWED TO HELP INSURE PRODUCTIE WAY OF ERECTING A BULLDING. ALL EMPLOYEES SHOULD KNOW ARE ALSO RECOMMENDED. THE USE OF HARD HATS, RUBBER SOLE SHOES FOR |
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 SECTION 4 AND COMMENTARY, AISC CODE OF STANDARD PRACTICE 9TH EDITION) IT IS THE RESPONSIBLLITY OF THE BUYERJEND USE CUSTOMER TO INSURE THAT MFG PLANS COMPLES WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING
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PRACTICE, 9TH EDITION)
 UNLESS OTHERWISE PROVIDED IN THE ORDER DOCUMENTS, MFG DOES NOT DESIGN AND
ISNOT RESPONSIILEFRORTHE DESIGN MATRRALAND CNSTRCTON OF THE
FOUNDTION OR FOUNDATION EMBEDMENT. THE END USE CUSTOMER SHOULD ASSURE
 BEARING CAPACITY OF THE SOIL AND OTHER CONDITIONS O, BU DING SITE.



$\overbrace{12} 8.0$









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