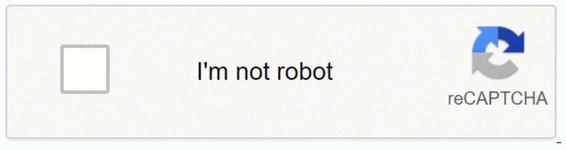

Continue

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Cold formed steel design manual pdf format online

5. COLD FORM STEEL

5.1 Introduction

Thin sheet steel products are extensively used in building industry, and range from purlins to roof sheeting and floor decking. Generally these are available for use as basic building elements for assembly at site or as prefabricated frames or panels. These thin steel sections are ***cold-formed***, i.e. their manufacturing process involves forming steel sections in a cold state (i.e. without application of heat) from steel sheets of ***uniform*** thickness. These are given the generic title ***Cold Formed Steel Sections***. Sometimes they are also called ***Light Gauge Steel Sections*** or ***Cold Rolled Steel Sections***. The thickness of steel sheet used in cold formed construction is usually 1 to 3 mm. Much thicker material up to 8 mm can be formed if pre-galvanised material is not required for the particular application. The method of manufacturing is important as it differentiates these products from ***hot rolled steel*** sections. Normally, the yield strength of steel sheets used in cold-formed sections is at least 280 N/mm^2, although there is a trend to use steels of higher strengths, and sometimes as low as 230 N/mm^2.

Manufacturers of cold formed steel sections purchase steel coils of 1.0 to 1.25 m width, slit them longitudinally to the correct width appropriate to the section required and then feed them into a series of roll forms. These rolls, containing male and female dies, are arranged in pairs, moving in opposite direction so that as the sheet is fed through them its shape is gradually altered to the required profile. The number of pairs of rolls (called **stages**) depends on the complexity of the cross sectional shape and varies from 5 to 15. At the end of the rolling stage a flying shearing machine cuts the member into the desired lengths.

An alternative method of forming is by press - braking which is limited to short lengths of around 6 m and for relatively simple shapes. In this process short lengths of strip are pressed between a male and a female die to fabricate one fold at a time and obtain the final required shape of the section. Cold rolling is used when large volume of long

Project: Base Plate 5 Billing Reference: 2200.025 IES Employee, IES File: Example Report.vcbp Monday, January 07, 2013

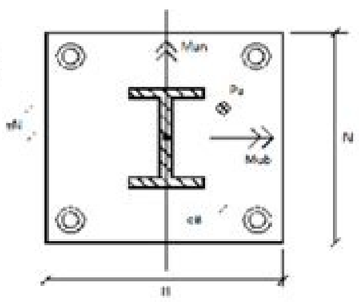
Base Plate Analysis

Analysis Classification (AISC Design Guide #1)
Load Set: Load Set 1
Load Combination: 1.4D

Support Strength, f'c = 4 Ksi
Loaded Area, A1 = 484 in^2
Support Area, A2 =The largest area contained on the support that is geometrically similar to and concentric with the loaded area.
A2 = 484 in^2
(ACI 10.17.1)

$$\phi f_{cu} \quad \phi 0.85 f'_c \sqrt{\frac{A2}{A1}} < \phi 0.85 f'_c * 2.0 = \mathbf{2.21\ Ksi}$$

Pu = 140 K (Compression is positive)
Mun = 0 K-ft → eB = 0 in
Mub = 116.67 K-ft → eN = -10. in
Edge Lengths:
B = 22 in
N = 22 in^2



Design Guide #1 sign convention
Loads and eccentricities shown in positive direction

(Equations 3.3.7)

N direction:

$$e_{min,conc} = \frac{N}{2.0} - \frac{P_u}{2.0 f_{cu} B} = 9.5603 \text{ in vs. } eN = -10. \text{ in}$$

B direction:

$$e_{min,conc} = \frac{B}{2.0} - \frac{P_u}{2.0 f_{cu} N} = 9.5603 \text{ in vs. } eB = 0 \text{ in}$$

Classification:
Axial Compression with a Large Moment in the strong direction.

Cold formed hollow sections & profiles catalogue. Cold formed steel design manual. Cold formed vs hot formed.

An error was fixed that caused the ‘Save’ dialog box to appear in Walls with Openings even if no input changes had occurred. For certain loading configurations under Beam Input the wall stud dimensions were not displayed in the Summary Report. By visiting this website, certain cookies have already been set, which you may delete and block. Issue with multiple built-up members in 1-span opening not saving proper built-up Wind load in 1-span and wall stud module fixed to not revert back to default 20psf. All Simpson by-pass connectors and all anchors in CFS catalog as well as base track, slotted track and slip track can be designed in CFS designer. A bug with on-screen member summary results was resolved. Simplified input of Wind module for tall parapets 1-Span Opening Module added Required toggle in member summary Fixed Issues Capacity 0.018 and 0.027 in Steel Sheet was incorrectly reporting 0 value CFS Designer Version 4.0.0.24 Improved speed of 1-span opening Correct Tension allowable load in beam input and wall stud modules. Version 2.0 Added a new tool that automates the design of a system of stacked load-bearing walls for up to 8-stories of stud framing. In this edition, new design examples have been added to further illustrate the Direct Strength Method provisions and newly added provisions in the Specification. CFS Designer does not calculate weak-axis properties for Boxed and Back-Back members. Option for excluding or including tributary self-weight has been added. Added a summary report for built-up members. AISI’s codes and standards work is conducted under the Construction Market Council of the Steel Market Development Institute (SMDI), which increases and defends the use of steel by developing innovative materials, applications and value-added solutions for customers in the automotive, construction and packaging markets. Version 1.4 For the General Interactions module the program was previously allowing inputs for weak axis bending for z-sections. errors and issue with program crash. ### Contacts: Debbie Bennett Manager, Construction Communications Steel Market Development Institute Tel: 202.452.7179 Lisa Harrison Senior Vice President, Communications American Iron and Steel Institute Tel: 202.452.7115 This website requires certain cookies to work and uses other cookies to help you have the best experience. An error that could cause built-up members in Walls With Openings to not print was fixed. SMDI investors include: AK Steel Corporation, Algoma, ArcelorMittal, Nucor Corporation and SSAB Americas. An error that would cause a crash if certain Walls with Openings dimensions were input incorrectly was fixed. Fixed the KtLt axial bracing setting for the beam input tool so that it enables and disables properly. Version 1.5 CFS Designer has been updated for the AISI S100-2012 Code. This bug has been fixed. Flexural bracing for jamb and stud has been separated and bracing has been re-organized. CFS Designer version 4.0.0.6 Fixed an error with a crash in 1-span opening CFS Designer version 4.0.0.1 Addition of S100-16 w/ S1-18 amendments Import of Wind load to 1-span opening and kneewall modules Enhanced wind module layout Additional on-screen report for required loads for wall stud module Added HYS and 150 track leg to Connector Selector Added images to member settings for 1-span opening Added interior/exterior condition option to stacked wall module Enhanced post load selector in kneewall module Added connection selector in floor joist module Added a negative sign to outward load in rafter module Check Bending and Axial and Bending and Tension are now listed separately in rafter module Changed stacked shearwall and stacked x-brace modules to LRFS shearwall and LRFS x-brace Added non-composite 2, 3 and 4 stud configurations to LRFS shearwall and x-brace module Updated all outputs to be more concise, consistent and easier to read Version 3.4.3.0 Error loading design combination 4 Error saving connection design for R1 in beam input ASCE Wind ASCE 7-16 slight modification 30.3-2A overhang, 30.3-2C overhang, 39.3-2H and 30.3-2I ASCE 7-16 added Partially Open Building to Enclosure Classification Version 3.4.2.0 Bug in exporting of members from wall with opening module to beam input for older version files has been fixed Bug in Rafter framing has been fixed that had incorrectly initialized inputs for load combinations Wall Stud module optimized to help reduce lag time Corrected issue that corrupted CFS designer file Fixed wind export to export max height of wind loads when building taller than 60ft ASCE 7-05 issue corrected with ASD check box Release Notes – CFS Designer v3.4 Incorporated S100-16 as an option in CFS Designer Added ASCE 7-16 wind load into the wind module for component and cladding wall and roof loads Ability to transfer wind load from the wind module to the wall stud module based on user selected tributary area Added user selected tributary area to wind module for customize reporting Added ability to input multiple parapets in wind module customize reporting Added an on screen wind summary in the wind module for both wall and roof loads Modified wind module report to make easier to read Updated images in wall stud and beam input module to include arrows to indicated load direction as well as color filled trapezoidal loads similar to the uniform loads Added ability in wall stud and beam input module to design cantilever based on 2xcantilever or 2x(cantilever + span inflection point) Updated all connection to the C-CF-2020 Simpson Catalog Modified the on-screen member summary for wall stud module to be easier to read interactions as well as added web stiffener location requirements Create a new work space report generator that allows user to organize reports in any fashion Created 3 and 4 stud option configurations in stacked shearwall module (similar to stacked x-bracing module) Cleaned up all layouts to line up input boxes and adjust alignment Fixed a web stiffener callout error in rafters that was incorrectly noting web stiffener not needed. Fixed the on-screen member summary and status bar for the beam input tool to display the proper deflection values. Version 3.0 ASD option for stacked shearwalls Load modifiers for stacked shearwalls (lapped sheet steel, and gypsum board opposite side) Enhanced Wall with Opening module interface Added the option to use Prox header in the Wall with Opening module Added an Interaction check for single member headers in Wall with Opening Module Ability to design Box header with different load anologies in Wall with Opening Module Enhancedimages for custom sections Enhanced layout for joist module Added SCS clip as an option in connection design Added SureBoard to simple shearwalls Added holdowns to simple shearwalls Version 2.8.7 Fixed issue with wall with opening Built-up jamb showing interaction with no member selected. Additional header load and additional stud axial load are now located under vertical loads and can be combined with wall self-weight. For Point Loads input under Beam Input a validation error will now be generated for point loads that fall off the end of the beam/stud. Version 2.0.1 Cantilever (parapet) deflections were added to Walls with Openings Summary Report The Summary Report for HSS analysis was updated to include negative support reactions The on-screen Member Summary was updated to correctly show the moment ratio heading Mmax/Mayo for Y-Y Axis members and to include the Ft-lb units for Ma(Brc). These inputs are now grayed out since CFS Designer does not calculate weak axis bending capacity for z-sections. AISI serves as the voice of the North American steel industry in the public policy arena and advances the case for steel in the marketplace as the preferred material of choice. Fixed a bug so that the Diagram Tab will not disappear after resetting point loads and sloped loads. Version 2.5 A new stacked x-braced module has been added. The User's Manual has been updated to include information on Simpson Strong-Tie® connectors. Version 1.3 A new summary report has been created for the Beam Input Design Tool. For General Interactions, fixed bugs associated with calculating Cb, and y-axis bending for boxed sections. Z-Sections can now be analyzed under Custom Sections. Note it was showing stiffener needed in on-screen summary. Re-organized and added text to the connection designer in beam input and wall with openings module. Volume II contains the North American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition and the Commentary. Added Sure-Board® ER-126 to web links under report. ASD or LRFD options available A new stacked shear wall module has been added. LSUBH bridging connectors are now designed along with SUBH and MSUBH connectors. Version 2.8 A new kneewall module has been added. An issue with stacked walls that displayed on-screen and in the summary report the wrong maximum interaction value for certain inputs was fixed. Follow AISI on Facebook or Twitter (@AISISteel). An error that could cause the Sheathing Parameters inputs to be invisible when a model with sheathing bracing was saved was fixed. Fixed issue of clearing red “fail warning” on wall with ongoing member summaries that worked. This has been fixed. Text format issues for headers in the Floor Joist report have been fixed. This Website Uses CookiesBy closing this message or continuing to use our site, you agree to our cookie policy. Visit our updated privacy and cookie policy to learn more. CFS Designer Version 4.0.0.16 Fixed issue with file getting corrupt CFS Designer version 4.0.0.13 Fixed error with wall stud and 1-span opening referring back to initial defaults for load, bracing and connections CFS Designer version 4.0.0.11 Yield strength settings fixed to not reverting to default setting in 1-span opening. Fixed a small typo in the summary report for the wall with opening tool. Existing CFS Designer V1.5 users can contact cfs-designer@strongtie.com for a coupon for $100 off the normal price. Added Sure-Board® as an option for sheathing in stacked shearwall module. Quick links to CAD drawings, connectors, code reports and technical topic articles have been added. The default for Cold-Work of Forming was incorrectly set to “Ignore”. The new module follows AISI S240 and S400 and allows up to 8 stories. An aspect ratio greater than 2 is not permitted. The Shear Wall Results screen now shows v(allowable) in red if it is less than v(applied). Fixed a bug concerning the on-screen summary results for the maximum value of the shear/moment interaction for the Beam Input Design Tool. For more information on SMDI’s Construction Market program, visit www.buildusingsteel.org. Follow SMDI Construction on Twitter @BuildUsingSteel. Fixed a bug concerning the reported reactions for built-up members for the Beam Input Design Tool. The Cold-Formed Steel Design Manual, 2017 Edition is available in both printed (AISI D100-17) and electronic formats (AISI D100-17E) and includes the following: Volume I covers dimensions and properties, beam design, column design, connections, supplementary information, and a bibliography of pertinent test methods. The sheathing braced design option for axial loaded studs was not working in V1.4 and has been fixed in V1.4.1.0. V1.4 was giving SUBH bridging solutions when the bracing was set to "None". Stacked X-Brace deflection calculations were updated to include resisting dead load in accordance with ASCE 7 load combinations when determining holdown deformation. Corrected a bug associated with the calculation of Cb when KyLy was set to “None”. A bug associated with the erroneous input of point loads falling off the end of a beam or stud has been fixed. The on-screen code year display for HSS designs was corrected to consistently read “ANSI/AISC 360-10, ASD”. Version 1.4.2 V1.4.2 fixes the January 1, 2016 auto update bug Version 1.4.1.0 V1.4.1.0 permits users to give a unique name to custom sections. Version 2.0.2 Performance issues related to speed when designing Stacked Walls were fixed. Version 1.2 Fixed typos in the Interaction Summary Report, the Wall with Opening Summary report, the X-Braced Summary Report, and the General Interactions Summary Report. The program was incorrectly calculating the number of required fasteners when the Seismic Increase Factor was set to “Strap Strength”. One page output will now be produced for a two-span condition with top and bottom cantilevers. Version 2.8.4 Corrected an issue with the latency of wall with opening program using built-up members for jambs. The section graphics have been enhanced under Custom Sections. An error in wall with opening module for built-up members when imported to Beam Input has been corrected. Design is much more flexible. The X-Brace Design Tool has been updated for the IBC 2012 code and will now check the aspect ratio for Section C4.1 of AISI S213-07/S1(2012). For the Shearwall Design Tool the program now uses the Framing Thickness instead of the Chord Thickness to determine the allowable shear. For Sloped Loads input under Beam Input a validation error will now be generated if Y-Start is greater than Y-End. For the Shearwall Design Tool the program has been updated for the IBC2012. A warning dialog box regarding delays resulting from printing large WorkSpace Reports was added. Corrected and incorrect and conservative value for Sure-Board for fastener spacing of 2/6 for w1 variable. The calculations were being carried out correctly for the 2010 Code; it was just the label under Member Settings that was in error. Summary Report notes regarding connection multipliers for opposite load direction were deleted from reports where connection designs were not included. Added the ability to organize workspace alphabetically or entered order Created a standard name generator for custom shapes Added the ability to move any of the wall with opening module members to the beam input Output for beam input module has been slightly modified to make the section and connection information easier to read Default Summary Report pdf file names have been modified to their model name Version 2.0.3 An error generated when printing WorkSpace Reports for files with a large number of models was fixed. The validation limits for the Deflection Load Modifier have been relaxed. The Ratio (Factored Net Uplift)/Holdown Capacity) was also corrected to be zero when there is no net uplift. Fixed misc. When the Code Year was set to 2010, the program was resetting the Code Year Label to 2007 when switching between program modules. Added a X-distance user input to determine a corresponding shear, moment and deflection value in beam input diagrams. Connection design has been completely redone in beam input and wall with opening module. Stacked Shearwall deflection calculations were updated to include resisting dead load in accordance with ASCE 7 load combinations when determining holdown deformation. CFS v2.5 allows LRFD input. Output resolution has been enhanced for graphic images. Summary reports for all models in a workspace can now be printed in a consolodated .pdf file using the WorkSpace Report button. An issue that caused custom sections in Y-Y Axis orientation to show results as if they were in their X-X orientation was fixed. Version 1.1 Fixed various bugs associated with built-up members with the beam input tool. Bugs associated with printing workspace reports and saving files with built-up members have been resolved. The report was based on 60 inches when it should have been set to Full Bracing. Fixed a bug with the On-Screen Connector Summary when Track/Other was selected in certain scenarios. June 13, 2018 WASHINGTON, D.C., June 13, 2018 – The American Iron and Steel Institute (AISI) has published the Cold-Formed Steel Design Manual, 2017 Edition, which is to be used in conjunction with AISI S100-16, North American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition and the Commentary. This default has been changed to “Include”. Fixed a bug concerning the reported deflection for beams/studs that don't have bending loads. The design manual was developed under the direction of AISI’s Education Committee. A Summary Report error incorrectly displaying results for sections with web stiffeners required for negative reactions was fixed. Some members reporting 0 allowable load. Fixed a bug with the allowable axial load for sheathing braced design for the Beam Input Design Tool. Version 2.8.5 Fixed an issue causing opening to crash in wall with openings Fixed an issue that showed incorrect reaction for existing openings that were not recalculated. For the General Interactions module, the input Lm value for distortional buckling was not being correctly applied. The Walls with Opening on-screen Summary Report checkbox for Wall Studs was fixed to remain unchecked if unchecked by the user. A bug that caused Beam Input models with Built-Up sections to not save correctly was fixed. For the Wall with Opening module, a bug associated with sill reactions for certain duplicated models has been fixed. HSS sections have been updated to ANSI/AISC 360-10. Fixed the program so that sheathing braced design cannot be selected for Y-Y axis bending. The program was previously not displaying this error. A handful of minor bugs that caused incorrect validation warnings and errors to be displayed were fixed. A few users were having issues generating Workspace Reports for certain large files. The new module designs low-wall and overhead cantilevered studs, moment connectors and anchorage. Rollers and pin supports have also been added to the beam input module Wall with opening module general tab has been modified. The program will now prompt users to save before duplicating models. In the Floor Joist module, fixed a bug concerning the On-Screen Summary Report for the Moment Ratio. Updates to printing were made to eliminate extraneous pages from reports. The User’s Manual has also been updated to reflect this addition. Issues in Walls with Openings that could cause a crash when switching from a Walls with Openings model to a Beam Input model were fixed. The Walls with Openings UI was updated to allow zero input for the dimension between the header and the upper support location. Fixed report error in stacked shear walls for No 10 fasteners in 68 mil (not no 8) Updated defaults to be more relevant start points Fixed an error where HSS member and reaction not updating on screen Updated all links to CFS Catalog to the C-CF-2020 Simpson Catalog Fixed issue with Windows 10 and close minimize and maximize button missing Added tool tip for kneewall seismic and wall with opening module Updated "CFS design has an update" button and "license file message" to have better instructions Version 3.2.0.4 Corrected error with vertical load for design of connections wall stud and beam input Corrected error with back to back, boxed, built-up sections for axial/moment interaction Version 3.2 Reorganized design tool layout Wall stud module to design wall stud framing with enhanced loading inputs and design New wall stud module output Wind module added to design components and cladding for walls and roof Added CFS connections to beam input, wall stud and wall with opening Added base clip connections to beam input, wall stud and wall with opening Enhanced layout for rafter module New output for rafter module which includes max gravity and uplift loads Ability to design lay-in headers in wall with opening module using strongback/lateral track option Added ability to add multiple holdowns at each connection for x-brace and stacked shearwalls Added on screen connector summary report for stacked x-braced and stacked shearwalls Added 3 and 4 stud configurations for stacked x-braced and stacked shearwalls. The design manual consists of two volumes and is available for purchase as a set at AISI’s online Steel Store at . An error in wall with opening module for built-up members for axial/moment interaction has been corrected. The User Interface was updated to properly display the location of Point and Sloped Loads on Wall Stud or Beam/Joist models The Walls with Openings maximum height validation value was increased to 100 ft for each input height. The Stacked X-Brace summary report was updated to note that negative values represent uplift and positive values of factored net uplift are indicative of no net uplift. A detailed list of the added examples and other major changes are provided in the online document “Major Changes in D100-17” (click here). By closing this message or continuing to use our site, you agree to the use of cookies. AISI also plays a lead role in the development and application of new steels and steelmaking technology. Fixed a UI issue associated with Cb input for the General Interactions module. Future versions will allow ASD. AISI is comprised of 21 member companies, including integrated and electric furnace steelmakers, and approximately 120 associate members who are suppliers to or customers of the steel industry. For more news about steel and its applications, view AISI’s website at www.steel.org. A note concerning sheathing fasteners has been added to the Shearwall Summary Report. Section input dropdowns were updated to include consistent ranges of flange size and thickness for all the Design Tools A bug that could cause WorkSpace Reports to print incorrectly when Walls with Openings were included was fixed. Well over a dozen tool tips have been added to the software to help better understand what the software does and provide information that may be useful on particular subjects. For Beam Input models with Built-Up sections, the on-screen summary and the Summary Report were updated to eliminate the M + Torsion column. V1.4.1.0 fixes this issue. The help file has been updated to address recently added functionality. For the X-Bracing module, a bug has been fixed to prevent a program crash when using text input for the chord axial bracing. Corrected a bug for X-Bracing. In the General Interaction module added maximum shear force for checking bending and shear interaction. Increased the text space for models within the workspace allowing longer names to be easier to read. For the X-Braced Design Tool a bug for manually entered connection design values has been fixed. The program was not previously displaying this error. For the General Interactions module, an incorrect validation error appeared when Axial Lm was set to zero. Fixed errors with the status bar not turning red, and for correctly displaying the deflection limit when lateral loads are not present. Fixed a small bug associated with validation errors with custom CFS sections in the beam input tool. Fixed issue with knee-wall not saving connectors. Designers can now choose to design bridging connectors using 2% of the applied load per AISI S211, or 1% of nominal load per AISI S100. Release Notes: CFS Designer Version 4.2.0.9 Fixed capacities for LFRS shear walls and x bracing for non-composite sections Fixed issue to ensure Ry kicker reaction always adds induced kicker vertical force to Ry gravity regardless of direction CFS Designer Version 4.2.0.7 Fixed issue for gravity load in wall stud in certain sequence not updating calculations CFS Designer Version 4.2.0.4 Fixed issue with openings and built-up members not updating calculations Fixed issue with knee-wall module, RCKW attached to structural steel and incorrect flag regarding attached to concrete Fixed error opening output with a back to back member with no lateral load in the wall stud module Fixed error message for 0.7 wind message for 1-span openings CFS Designer Version 4.2.0.1 Added Spandrel module Improved design time for wall stud, beam input and 1-span opening Added option for (2) & (3) non-composite members to wall stud, beam input and 1-span Added member designer to wall stud and beam input Added labeling to sloped loads in wall stud and beam input Add “allowed” to on screen summary in wall stud module Added connections to beam input (horizontal orientation) Added “not bearing on support” connection to beam input and floor joist Enhanced beam input (horizontal orientation) summary report Automated load names for rafter and stacked wall module Enhanced workspace report with more user options Added section image to section properties report Improved speed/response time of 1-span, beam input and wall stud module Added KL/r value output to onscreen summary and summary reports Added warning if 0.7 deflection potentially used incorrectly for wall stud, beam input and 1-span module Fixed formatting for built up member reports in wall stud and beam input modules Improved formatting for LRFS stacked and shearwall report Improved General Interaction output Kneewalls image was updated to reflect suction as well as pressure loads. Learn More This website requires certain cookies to work and uses other cookies to help you have the best experience. Graphics have been added to the drop-down boxes for connections. Some of the dropdown boxes for z-section input dimensions were not functioning properly. A bug that for certain combinations of Walls with Openings input would not allow the user to save 97-mil framing members was fixed. Corrected the Summary Report for Boxed and Back-Back members so that the allowable weak-axis bending moment is not displayed for these members.

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