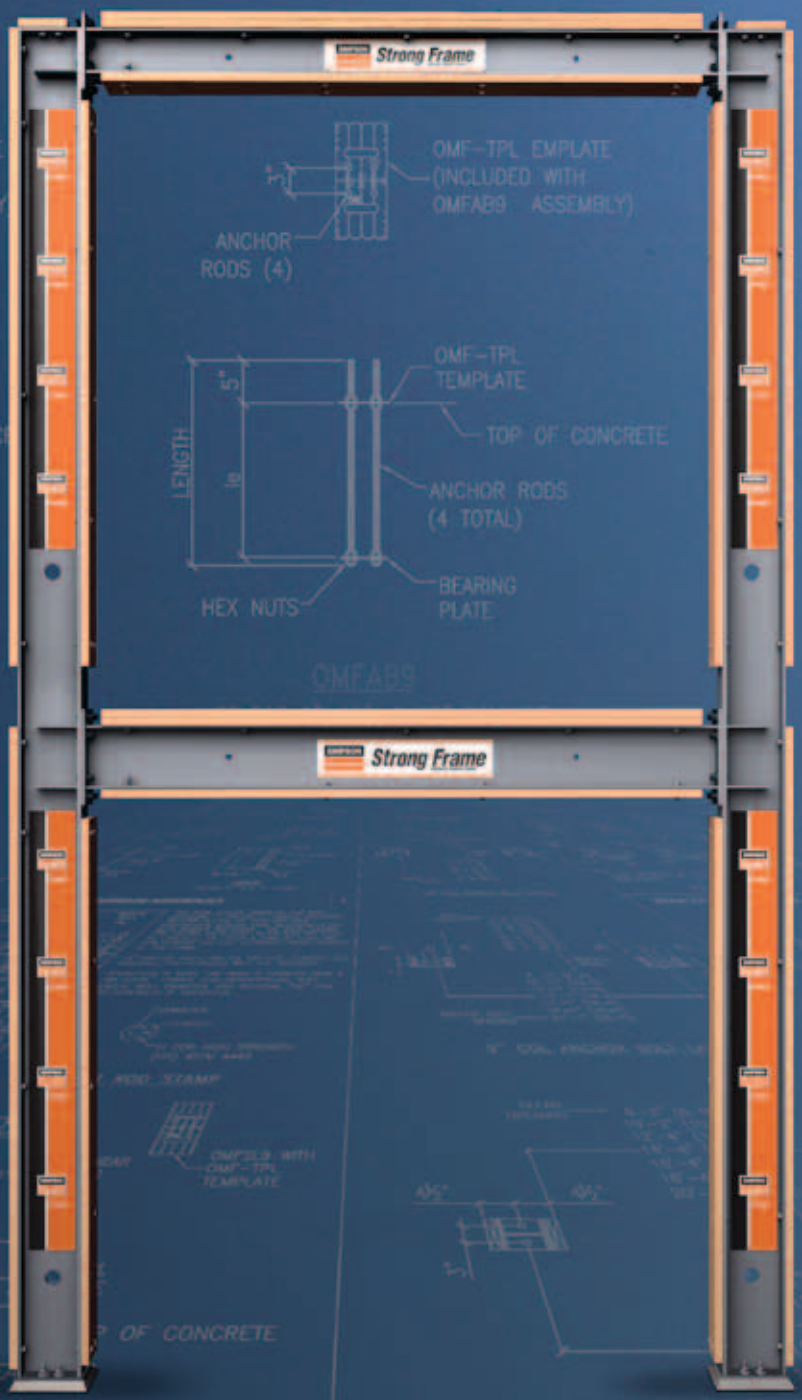
SIMPSON
Strong-Tie
®



STRONG FRAME™

TWO-STORY
ORDINARY MOMENT FRAME

(800) 999-5099
www.strongtie.com

Expanded Design Options

With the new Simpson Strong-Tie® Strong Frame™ two-story ordinary moment frame, Designers can reach new heights – and widths – in creativity. Accommodating openings up to 18' tall per story and 24' wide, the new two-story ordinary moment frame is the ideal solution for projects featuring tall ceilings, expansive windows and other customized designs with space constraints or load requirements that exceed other lateral-force-resisting options for traditional light-frame construction.

Unlike field-built ordinary moment frames – which are time-intensive to design and labor-intensive to install – the new Strong Frame two-story moment frame is manufactured with the same value-engineering as our single-story Strong Frame moment frame, making it a cost-effective alternative to traditional frames. And our quick turnaround time in delivering your customized frame means no interruptions in the project construction schedule.

Features

- **Larger spaces accommodated:** Columns and beams accommodate designs with clear opening widths to 24', and clear opening heights to 18' per story.
- **100% bolted connections:** Because no field welding is required, frames install faster. No need to have a welder, or welding inspector, on site. A standard socket or spud wrench is all that is typically needed to make the connection. However, a heavy-duty socket wrench power tool may be necessary if fully tensioned bolts are required.
- **Pre-installed wood nailers:** Eliminate the need to drill and bolt nailers in the field.
- **Pre-drilled holes for utilities:** 11⁄16" diameter holes in the flanges and 3" holes in the column webs allow easy installation of electrical wiring and plumbing.
- **Greater quality control:** Frames are manufactured in a production environment with comprehensive quality-control measures. Field-bolted connections eliminate questions about the quality of field welds. Direct-tension-indicator washers included.
- **Convenient to store, ship and handle:** Disassembled frames are more compact, allowing for easier shipping and fewer deliveries.

2-Story Member Depth and Connections (Beams)

Beam Section ID	Steel Depth (in.)	Beam Top Nailer(s)	Beam Bottom Nailer	Overall Depth (in.)	Connection Bolt Dia. (in.)	Connection Bolts Quantity (per side)
B9	8.5	(2) 2x6	2x6	13	7⁄8	8
B12	12	(2) 2x6	2x6	16.5	7⁄8	8
B16	15.5	(2) 2x6	2x6	20	7⁄8	8
B19	19	(2) 2x6	2x6	23.5	7⁄8	8
B12H[2]	12	4x6	2x6	17	1	8
B16H[2]	15.5	4x6	2x6	20.5	1	8
B19H[2]	19	4x6	2x6	24	1	8

2-Story Member Depth and Connections (Columns)

Column Section ID	Steel Depth (in.)	Column Exterior Nailer	Column Interior Nailer(s)	Overall Depth (in.)	Anchor Bolt Grade	Anchor Bolt Dia. (in.)
C9	9	2x6	2x6	12	A449	5⁄8
C12	12	2x6	2x6	15	A449	5⁄8
C15	15	2x6	2x6	18	A449	5⁄8
C18H[1,2]	18	2x6	(2) 2x6	22.5	A449	3⁄4
C21H[1,2]	21	2x6	(2) 2x6	25.5	A449	3⁄4

1. C18H and C21H columns require B12H, B16H or B19H beams.
2. H denotes beams with 1" diameter bolts, thicker and stiffened end plates.

Anchorage Simplified

Anchorage is easier with the Strong Frame™ two-story ordinary moment frame than it would be with a field-built ordinary moment frame:

- **Streamlined footing design:** Pre-engineered anchorage solutions simplify the design process. No more tedious anchor calculations, just select the solution that fits your foundation type and you're done.
- **Two anchorage options available:** The OMFSL anchorage assembly places the frame flush with the edge of the concrete, allowing it to fit into a standard 2x6 wall without bump-outs or furring. The OMFAB assembly is designed for use where concrete edge distance is not an issue.
- **Pre-assembled anchorage solutions:** Anchor bolts are pre-assembled on a template that mounts onto the form. This helps to ensure correct anchor placement for trouble-free installation of columns.

OMFSL anchorage assembly for the Strong Frame two-story ordinary moment frame sold separately, specified separately.

Strong Frame™ OMFSL anchorage assemblies make design and installation faster and easier.

Superior Quality in Less Time

Because the Strong Frame moment frame is manufactured in a quality-controlled factory environment Simpson Strong-Tie has been able to streamline production to offer a wide variety of frame sizes without additional lead time. Our sizable inventories of columns and beams mean we can turn around your order in a fraction of the six to eight weeks most steel fabrication shops customarily require.

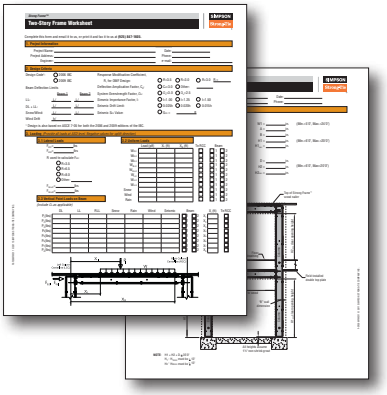
Moreover, before it is shipped every Strong Frame ordinary moment frame undergoes the rigorous quality inspections you've come to expect from Simpson Strong-Tie. Labels affixed to every column and beam enable us to trace the steel to its point of origin. Reference numbers included on the connection kits point to the lot testing of the structural bolts within the kit. And all welds are inspected in accordance with IBC 2006 and IBC 2009 Chapter 17 requirements.

For more information about the Strong Frame two-story ordinary moment frame, including technical support, visit **www.strongtie.com** or call (800) 999-5099.

Specification Made Easy

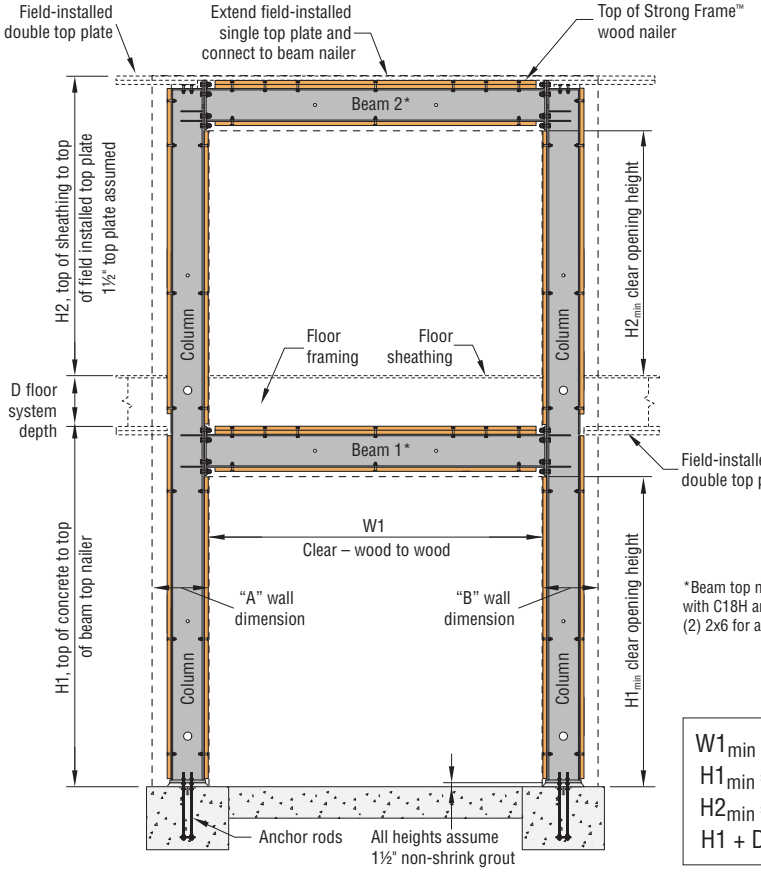
To support the design of the Strong Frame™ two-story ordinary moment frame, a new version of the Strong Frame Selector software is available for download at **www.strongtie.com/strongframe**. Simpson Strong-Tie® Strong Frame™ Selector software is designed to help Designers select an appropriate frame for your project's given geometry and loading. You need only key in minimum input for the software to select a suitable frame for the available space. Based on input geometry and loading the Strong Frame Selector software will return a list of possible solutions, sorted by frame weight. Designers can quickly design the two-story frames, with easy-to-read output that can then be sent to an authorized Simpson Strong-Tie dealer for a quote. In addition to the two-story frame designs, the Strong Frame Selector software offers anchorage solutions for all frames.

As an alternative to downloading the Strong Frame Selector software, Designers can key project-specific information into an electronic worksheet (available at **www.strongtie.com/strongframe**) and either email it or fax it to our design engineers who will identify the two-story frame(s) appropriate for your project. For other design options, please visit our website or call your local Simpson Strong-Tie representative.



OMF2S 18H 19H 16H 117.50 x 120.00 x 300.75

- OMF2S — Ordinary Moment Frame 2-Story
- 18H — Column size (9", 12", 15", 18"H and 21"H)
- 19H — Beam 1 size (9", 12", 16", 19", 12"H, 16"H and 19"H)
- 16H — Beam 2 size (9", 12", 16", 12"H, 16"H and 19"H)
- 117.50 — Beam length in inches
- 120.00 — Height of Beam 1 in inches
- 300.75 — Total steel column height (From bottom of base plate to top of column)



*Beam top nailers are 4x6 for frames with C18H and C21H columns and (2) 2x6 for all other columns.

$W1_{min} = 5'$	$W1_{max} = 24'$
$H1_{min} = 6'$	$H1_{max} = 20'$
$H2_{min} = 6'$	$H2_{max} = 20'$
$H1 + D + H2 \leq 35'$	

This flier is effective until June 30, 2013, and reflects information available as of June 1, 2011. This information is updated periodically and should not be relied upon after June 30, 2013 contact Simpson Strong-Tie for current information and limited warranty or see www.strongtie.com.

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