Concealed Beam Hanger

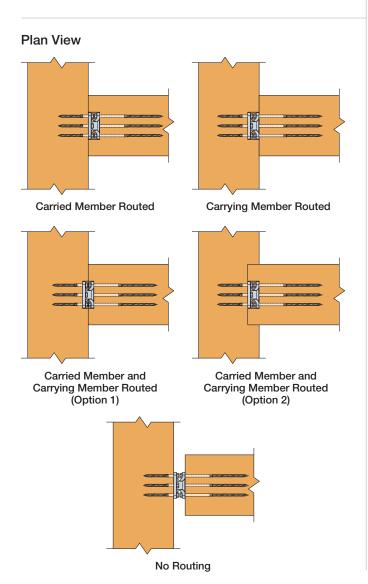
Computer modeling and CNC manufacturing enables glulam to be delivered to the job site in precise lengths and with preinstalled concealed hangers. The CBH concealed beam hanger is specifically designed for such applications, and is installed with readily available Simpson Strong-Tie® SDS Heavy-Duty Connector screws. The CBH hanger design provides for a +/- 1/32" beam length tolerance at each connector, making it easier to crane into place than other concealed hanger designs that use machined aluminum.

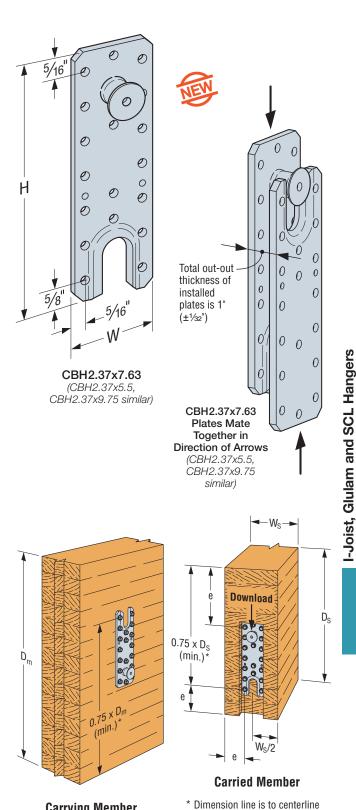
Material: 3 gauge Finish: Galvanized

Installation:

- Use all specified fasteners; see General Notes
- · Rout carried and/or carrying member according to application needs
- · Install CBH plates on carried and carrying members using all specified SDS fasteners
- · Mate carried member to carrying member according to installation illustrations

Codes: Code report is pending



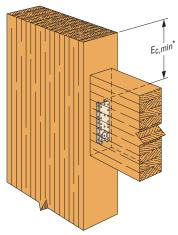


Carrying Member

of first row of fasteners e = 1½" (min.)

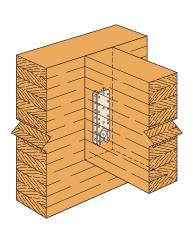
CBH Placement Relative to Member Depth/Width

Concealed Beam Hanger (cont.)

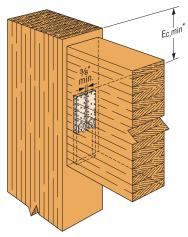


*Reference Simpson Strong-Tie engineering letter L-C-CBHDRIFT20 for guidance on CBH drift behavior at columns and E_{c,min} requirement.

Typical CBH2.37x7.63 Installation at Column (CBH2.37x5.5 and CBH2.37x9.5 similar)



Typical CBH2.37x7.63 Installation at Girder (CBH2.37x5.5 and CBH2.37x9.5 similar)



*Reference Simpson Strong-Tie engineering letter L-C-CBHDRIFT20 for guidance on CBH drift behavior at columns and Ec,min requirement.

Typical Double CBH2.37x7.63 Installation at Column

(CBH2.37x5.5 and CBH2.37x9.5 and installation at girder similar)

Table 1 — CBH Joist to Beam Allowable Loads

		Connector Dimension (in.)			Fasteners (SDS)		Allowable Downloads						
	Model No.						DF/SP			SPF/HF			Code
		Width	Height	Route Depth	Joist	Beam	Uplift (160)	Floor (100)	Snow/Roof (115/125)	Uplift (160)	Floor (100)	Snow/Roof (115/125)	Ref.
	CBH2.37x5.5B	23/8	5½	1	(13) 1/4" x 6"	(13) 1/4" x 3"	555	4,830	4,830	485	3,900	4,135	
@	CBH2.37x7.63B	23/8	75/8	1	(18) 1/4" x 6"	(18) 1/4" x 3"	555	6,510	6,510	485	5,400	5,570	_
	CBH2.37x9.75B	2%	9¾	1	(23) ¼" x 6"	(23) 1/4" x 3"	555	8,785	8,785	485	6,900	7,525	

See footnotes below.

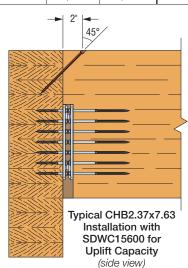
Table 2 — CBH Joist to Column Allowable Loads

		Connector Dimension (in.)			Fasteners (SDS)		Allowable Downloads						
	Model No.						DF/SP			SPF/HF			Code
		Width	Height	Route Depth	Joist	Beam	Uplift (160)	Floor (100)	Snow/Roof (115/125)	Uplift (160)	Floor (100)	Snow/Roof (115/125)	Ref.
凾	CBH2.37x5.5C	23/8	5½	1	(13) 1/4" x 6"	(13) 1/4" x 6"	555	5,455	5,455	485	3,900	4,485	
	CBH2.37x7.63C	23/8	7%	1	(18) 1/4" x 6"	(18) 1/4" x 6"	555	6,630	6,630	485	5,400	5,675	-
	CBH2.37x9.75C	23/8	9¾	1	(23) 1/4" x 6"	(23) 1/4" x 6"	555	8,940	8,940	485	6,900	7,655	

- Member sizes based on minimum fastener edge distances will achieve tabulated allowable download, but do not consider required char edge distances for desired fire ratings. Member sizes required to achieve desired fire ratings shall be determined by the Engineer of Record.
- Use Simspon Strong-Tie® Strong-Drive® SDWC15600 (6" length) to achieve table uplift capacities.
 Tabulated loads are for a single fastener. Use multiple screws for additional uplift.
- 3. Mimimum SDS edge distance 11/2".

Ordering Information

			Kit Contents				
Model No.	Application	Ordering SKU	CBH Plates	Number of Screws			
			GBH Plates	SDS25300	SDS25600		
CBH2.37x5.5B	Joist to beam	CBH2.37x5.5B-KT	Each kit contains two	13	13		
CBH2.37x7.63B		CBH2.37x7.63B-KT		18	18		
CBH2.37x9.75B		CBH2.37x9.75B-KT		23	23		
CBH2.37x5.5C	Joist to column	CBH2.37x5.5C-KT	backplates that make up one	_	26		
CBH2.37x7.63C		CBH2.37x7.63C-KT	connection	_	36		
CBH2.37x9.75C		CBH2.37x9.75C-KT		_	46		



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