

## Technical data sheet

**SIMPSON**  
**Strong-Tie**

HJHMI

### Heavy Masonry Hanger for I-Joists and Metal Web Joists

*The HJHMI range of joist hangers can be used to connect solid sawn joists, trusses, and engineered joists to masonry walls or steel beams.*

- Top flange provides widest area in contact with masonry support allowing superior performance.
- HJHMI side flange on deeper hangers is much higher than traditional style, providing greatly enhanced resistance to joist rotation.

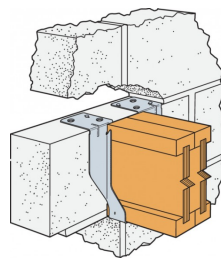
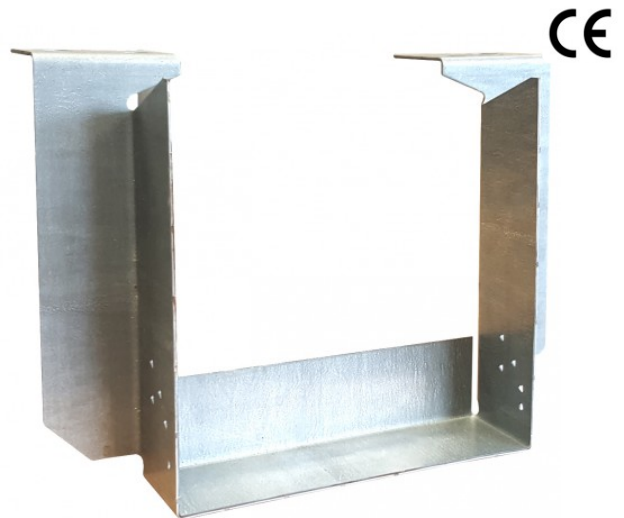
## Features

### Material

- Pre-galvanised mild steel

### Benefits

- Built-in inspection slot at the base of the hanger to aid inspection from the ground.
- HJHMI: Heavy duty masonry hanger for higher load carrying capacity.
- Top flange provides widest area in contact with masonry support allowing superior performance.
- Embossments on JHMI stiffen top flange and holes allow improved mortar keying.
- JHMI side flange on deeper hangers is much higher than traditional style, providing greatly enhanced resistance to joist rotation.



HJHMI

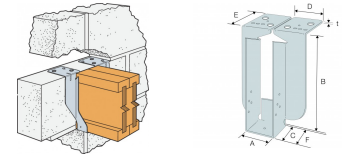
**Heavy Masonry Hanger for I-Joists and Metal Web Joists**

## Technical Data

# Technical data sheet



## HJHMI Heavy Masonry Hanger for I-Joists and Metal Web Joists



### Product Dimensions

References	Joist Size [mm]		Product Dimensions [mm]							Joist holes	
	Width	Height	A	B	C	D	E	F	t	Triangular Hole	Ø6x4 Oblong
HJHMI195/40	38	195	38	195	80	110	92.5	92.5	3	8	2
HJHMI200/40	38	200	38	200	80	110	92.5	92.5	3	8	2
HJHMI220/40	38	220	38	220	80	110	92.5	92.5	3	8	2
HJHMI225/40	38	225	38	225	80	110	92.5	92.5	3	8	2
HJHMI240/40	38	240	38	240	80	110	92.5	92.5	3	8	2
HJHMI245/40	38	245	38	245	80	110	92.5	92.5	3	8	2
HJHMI300/40	38	300	38	300	80	110	92.5	92.5	3	8	2
HJHMI360/40	38	360	38	360	80	110	92.5	92.5	3	8	2
HJHMI400/40	38	400	38	400	80	110	92.5	92.5	3	8	2
HJHMI195/47	45	195	47	195	80	110	92.5	92.5	3	8	2
HJHMI200/47	45	200	47	200	80	110	92.5	92.5	3	8	2
HJHMI220/47	45	220	47	220	80	110	92.5	92.5	3	8	2
HJHMI225/47	45	225	47	225	80	110	92.5	92.5	3	8	2
HJHMI240/47	45	240	47	240	80	110	92.5	92.5	3	8	2
HJHMI245/47	45	245	47	245	80	110	92.5	92.5	3	8	2
HJHMI253/47	45	253	47	253	80	110	92.5	92.5	3	8	2
HJHMI300/47	45	300	47	300	80	110	92.5	92.5	3	8	2
HJHMI350/47	45	350	47	350	80	110	92.5	92.5	3	8	2
HJHMI360/47	45	360	47	360	80	110	92.5	92.5	3	8	2
HJHMI400/47	45	400	47	400	80	110	92.5	92.5	3	8	2
HJHMI195/50	47	195	50	195	80	110	92.5	92.5	3	8	2
HJHMI220/50	47	220	50	220	80	110	92.5	92.5	3	8	2
HJHMI225/50	47	225	50	225	80	110	92.5	92.5	3	8	2
HJHMI235/50	47	235	50	235	80	110	92.5	92.5	3	8	2
HJHMI240/50	47	240	50	240	80	110	92.5	92.5	3	8	2
HJHMI245/50	47	245	50	245	80	110	92.5	92.5	3	8	2
HJHMI300/50	47	300	50	300	80	110	92.5	92.5	3	8	2
HJHMI220/56	53	220	56	220	80	110	92.5	92.5	3	8	2
HJHMI225/56	53	225	56	225	80	110	92.5	92.5	3	8	2
HJHMI240/56	53	240	56	240	80	110	92.5	92.5	3	8	2
HJHMI300/56	53	300	56	300	80	110	92.5	92.5	3	8	2
HJHMI200/61	58	200	61	200	80	110	92.5	92.5	3	8	2
HJHMI360/61	58	360	61	360	80	110	92.5	92.5	3	8	2
HJHMI400/61	58	400	61	400	80	110	92.5	92.5	3	8	2
HJHMI200/63	60	200	63	200	80	110	92.5	92.5	3	8	2
HJHMI220/63	60	220	63	220	80	110	92.5	92.5	3	8	2
HJHMI225/63	60	225	63	225	80	110	92.5	92.5	3	8	2
HJHMI240/63	60	240	63	240	80	110	92.5	92.5	3	8	2
HJHMI300/63	60	300	63	300	80	110	92.5	92.5	3	8	2
HJHMI350/63	60	350	63	350	80	110	92.5	92.5	3	8	2
HJHMI360/63	60	360	63	360	80	110	92.5	92.5	3	8	2
HJHMI400/63	60	400	63	400	80	110	92.5	92.5	3	8	2
HJHMI220/66	63	220	66	220	80	110	92.5	92.5	3	8	2
HJHMI225/66	63	225	66	225	80	110	92.5	92.5	3	8	2
HJHMI235/66	63	235	66	235	80	110	92.5	92.5	3	8	2

## HJHMI Heavy Masonry Hanger for I-Joists and Metal Web Joists

References	Joist Size [mm]		Product Dimensions [mm]							Joist holes	
	Width	Height	A	B	C	D	E	F	t	Triangular Hole	Ø6x4 Oblong
HJHMI240/66	63	240	66	240	80	110	92.5	92.5	3	8	2
HJHMI245/66	63	245	66	245	80	110	92.5	92.5	3	8	2
HJHMI300/66	63	300	66	300	80	110	92.5	92.5	3	8	2
HJHMI200/72	70	200	72	200	80	110	92.5	92.5	3	8	2
HJHMI220/72	70	220	72	220	80	110	92.5	92.5	3	8	2
HJHMI225/72	70	225	72	225	80	110	92.5	92.5	3	8	2
HJHMI240/72	70	240	72	240	80	110	92.5	92.5	3	8	2
HJHMI300/72	70	300	72	300	80	110	92.5	92.5	3	8	2
HJHMI360/72	70	360	72	360	80	110	92.5	92.5	3	8	2
HJHMI400/72	70	400	72	400	80	110	92.5	92.5	3	8	2
HJHMI195/75	72	195	75	195	80	110	92.5	92.5	3	8	2
HJHMI200/75	72	200	75	200	80	110	92.5	92.5	3	8	2
HJHMI220/75	72	220	75	220	80	110	92.5	92.5	3	8	2
HJHMI225/75	72	225	75	225	80	110	92.5	92.5	3	8	2
HJHMI235/75	72	235	75	235	80	110	92.5	92.5	3	8	2
HJHMI240/75	72	240	75	240	80	110	92.5	92.5	3	8	2
HJHMI245/75	72	245	75	245	80	110	92.5	92.5	3	8	2
HJHMI253/75	72	253	75	253	80	110	92.5	92.5	3	8	2
HJHMI300/75	72	300	75	300	80	110	92.5	92.5	3	8	2
HJHMI304/75	72	304	75	304	80	110	92.5	92.5	3	8	2
HJHMI350/75	72	350	75	350	80	110	92.5	92.5	3	8	2
HJHMI360/75	72	360	75	360	80	110	92.5	92.5	3	8	2
HJHMI373/75	72	373	75	373	80	110	92.5	92.5	3	8	2
HJHMI400/75	72	400	75	400	80	110	92.5	92.5	3	8	2
HJHMI417/75	72	417	75	417	80	110	92.5	92.5	3	8	2
HJHMI421/75	72	421	75	421	80	110	92.5	92.5	3	8	2
HJHMI195/78	2x38	195	78	195	80	110	92.5	92.5	3	8	2
HJHMI200/78	2x38	200	78	200	80	110	92.5	92.5	3	8	2
HJHMI220/78	2x38	220	78	220	80	110	92.5	92.5	3	8	2
HJHMI225/78	2x38	225	78	225	80	110	92.5	92.5	3	8	2
HJHMI235/78	2x38	235	78	235	80	110	92.5	92.5	3	8	2
HJHMI240/78	2x38	240	78	240	80	110	92.5	92.5	3	8	2
HJHMI245/78	2x38	245	78	245	80	110	92.5	92.5	3	8	2
HJHMI300/78	2x38	300	78	300	80	110	92.5	92.5	3	8	2
HJHMI360/78	2x38	360	78	360	80	110	92.5	92.5	3	8	2
HJHMI400/78	2x38	400	78	400	80	110	92.5	92.5	3	8	2
HJHMI195/91	2x45 or 89-90	195	91	195	80	110	92.5	92.5	3	8	2
HJHMI200/91	2x45 or 89-90	200	91	200	80	110	92.5	92.5	3	8	2
HJHMI220/91	2x45 or 89-90	330	91	330	80	110	92.5	92.5	3	8	2
HJHMI225/91	2x45 or 89-90	335	91	335	80	110	92.5	92.5	3	8	2
HJHMI235/91	2x45 or 89-90	235	91	235	80	110	92.5	92.5	3	8	2
HJHMI240/91	2x45 or 89-90	240	91	240	80	110	92.5	92.5	3	8	2
HJHMI245/91	2x45 or 89-90	245	91	245	80	110	92.5	92.5	3	8	2
HJHMI253/91	2x45 or 89-90	253	91	253	80	110	92.5	92.5	3	8	2
HJHMI300/91	2x45 or 89-90	300	91	300	80	110	92.5	92.5	3	8	2
HJHMI350/91	2x45 or 89-90	350	91	350	80	110	92.5	92.5	3	8	2
HJHMI360/91	2x45 or 89-90	360	91	360	80	110	92.5	92.5	3	8	2
HJHMI400/91	2x45 or 89-90	400	91	400	80	110	92.5	92.5	3	8	2
HJHMI195/96	2x47	195	96	195	80	110	92.5	92.5	3	8	2
HJHMI220/96	2x47	220	96	220	80	110	92.5	92.5	3	8	2

## HJHMI Heavy Masonry Hanger for I-Joists and Metal Web Joists

References	Joist Size [mm]		Product Dimensions [mm]							Joist holes	
	Width	Height	A	B	C	D	E	F	t	Triangular Hole	Ø6x4 Oblong
HJHMI225/96	2x47	225	96	225	80	110	92.5	92.5	3	8	2
HJHMI235/96	2x47	235	96	235	80	110	92.5	92.5	3	8	2
HJHMI240/96	2x47	240	96	240	80	110	92.5	92.5	3	8	2
HJHMI245/96	2x47	245	96	245	80	110	92.5	92.5	3	8	2
HJHMI300/96	2x47	300	96	300	80	110	92.5	92.5	3	8	2
HJHMI195/99	96-97	195	99	195	80	110	92.5	92.5	3	8	2
HJHMI200/99	96-97	200	99	200	80	110	92.5	92.5	3	8	2
HJHMI220/99	96-97	220	99	220	80	110	92.5	92.5	3	8	2
HJHMI225/99	96-97	225	99	225	80	110	92.5	92.5	3	8	2
HJHMI235/99	96-97	235	99	235	80	110	92.5	92.5	3	8	2
HJHMI240/99	96-97	240	99	240	80	110	92.5	92.5	3	8	2
HJHMI245/99	96-97	245	99	245	80	110	92.5	92.5	3	8	2
HJHMI253/99	96-97	253	99	253	80	110	92.5	92.5	3	8	2
HJHMI300/99	96-97	300	99	300	80	110	92.5	92.5	3	8	2
HJHMI304/99	96-97	304	99	304	80	110	92.5	92.5	3	8	2
HJHMI350/99	96-97	350	99	350	80	110	92.5	92.5	3	8	2
HJHMI373/99	96-97	373	99	373	80	110	92.5	92.5	3	8	2
HJHMI400/99	96-97	400	99	400	80	110	92.5	92.5	3	8	2
HJHMI417/99	96-97	417	99	417	80	110	92.5	92.5	3	8	2
HJHMI421/99	96-97	421	99	421	80	110	92.5	92.5	3	8	2
HJHMI220/109	2x53	220	109	220	80	110	92.5	92.5	3	8	2
HJHMI225/109	2x53	225	109	225	80	110	92.5	92.5	3	8	2
HJHMI240/109	2x53	240	109	240	80	110	92.5	92.5	3	8	2
HJHMI300/109	2x53	300	109	300	80	110	92.5	92.5	3	8	2
HJHMI200/122	2x60	200	122	200	80	110	92.5	92.5	3	8	2
HJHMI220/122	2x58 or 2x60	220	120	220	80	110	92.5	92.5	3	8	2
HJHMI225/122	2x58 or 2x60	225	120	225	80	110	92.5	92.5	3	8	2
HJHMI240/122	2x60	240	122	240	80	110	92.5	92.5	3	8	2
HJHMI300/122	2x60	300	122	300	80	110	92.5	92.5	3	8	2
HJHMI350/122	2x60	350	122	350	80	110	92.5	92.5	3	8	2
HJHMI360/122	2x60	360	122	360	80	110	92.5	92.5	3	8	2
HJHMI400/122	2x60	400	122	400	80	110	92.5	92.5	3	8	2
HJHMI195/125	122	195	125	195	80	110	92.5	92.5	3	8	2
HJHMI200/125	122	200	125	200	80	110	92.5	92.5	3	8	2
HJHMI220/125	122	220	125	220	80	110	92.5	92.5	3	8	2
HJHMI225/125	122	225	125	225	80	110	92.5	92.5	3	8	2
HJHMI253/125	122	253	125	253	80	110	92.5	92.5	3	8	2
HJHMI304/125	122	304	125	304	80	110	92.5	92.5	3	8	2
HJHMI373/125	122	373	125	373	80	110	92.5	92.5	3	8	2
HJHMI417/125	122	417	125	417	80	110	92.5	92.5	3	8	2
HJHMI421/125	122	421	125	421	80	110	92.5	92.5	3	8	2
HJHMI220/128	2x63	220	128	220	80	110	92.5	92.5	3	8	2
HJHMI225/128	2x63	225	128	225	80	110	92.5	92.5	3	8	2
HJHMI235/128	2x63	235	128	235	80	110	92.5	92.5	3	8	2
HJHMI240/128	2x63	240	128	240	80	110	92.5	92.5	3	8	2
HJHMI245/128	2x63	245	128	245	80	110	92.5	92.5	3	8	2
HJHMI300/128	2x63	300	128	300	80	110	92.5	92.5	3	8	2
HJHMI200/142	2x70	200	142	200	80	110	92.5	92.5	3	8	2
HJHMI220/142	2x70	220	142	220	80	110	92.5	92.5	3	8	2
HJHMI225/142	2x70	225	142	225	80	110	92.5	92.5	3	8	2

## HJHMI Heavy Masonry Hanger for I-Joists and Metal Web Joists

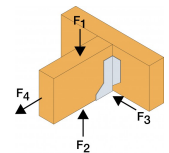
References	Joist Size [mm]		Product Dimensions [mm]							Joist holes	
	Width	Height	A	B	C	D	E	F	t	Triangular Hole	Ø6x4 Oblong
HJHMI240/142	2x70	240	142	240	80	110	92.5	92.5	3	8	2
HJHMI300/142	2x70	300	142	300	80	110	92.5	92.5	3	8	2
HJHMI360/142	2x70	260	142	260	80	110	92.5	92.5	3	8	2
HJHMI400/142	2x70	400	142	400	80	110	92.5	92.5	3	8	2
HJHMI195/146	2x72	195	146	195	80	110	92.5	92.5	3	8	2
HJHMI200/146	2x72	200	146	200	80	110	92.5	92.5	3	8	2
HJHMI220/146	2x72	220	146	220	80	110	92.5	92.5	3	8	2
HJHMI225/146	2x72	225	146	225	80	110	92.5	92.5	3	8	2
HJHMI235/146	2x72	235	146	235	80	110	92.5	92.5	3	8	2
HJHMI240/146	2x72	240	146	240	80	110	92.5	92.5	3	8	2
HJHMI245/146	2x72	245	146	245	80	110	92.5	92.5	3	8	2
HJHMI300/146	2x72	300	146	300	80	110	92.5	92.5	3	8	2
HJHMI350/146	2x72	350	146	350	80	110	92.5	92.5	3	8	2
HJHMI360/146	2x72	360	146	360	80	110	92.5	92.5	3	8	2
HJHMI400/146	2x72	400	146	400	80	110	92.5	92.5	3	8	2
HJHMI417/146	2x72	417	146	417	80	110	92.5	92.5	3	8	2
HJHMI195/150	2x75 or 147	195	150	195	80	110	92.5	92.5	3	8	2
HJHMI200/150	2x75 or 147	200	150	200	80	110	92.5	92.5	3	8	2
HJHMI220/150	2x75 or 147	220	150	220	80	110	92.5	92.5	3	8	2
HJHMI225/150	2x75 or 147	225	150	225	80	110	92.5	92.5	3	8	2
HJHMI235/150	2x75 or 147	235	150	235	80	110	92.5	92.5	3	8	2
HJHMI240/150	2x75 or 147	240	150	240	80	110	92.5	92.5	3	8	2
HJHMI245/150	2x75 or 147	245	150	245	80	110	92.5	92.5	3	8	2
HJHMI253/150	2x75 or 147	253	150	253	80	110	92.5	92.5	3	8	2
HJHMI300/150	2x75 or 147	300	150	300	80	110	92.5	92.5	3	8	2
HJHMI304/150	2x75 or 147	304	150	304	80	110	92.5	92.5	3	8	2
HJHMI360/150	2x75 or 147	360	150	360	80	110	92.5	92.5	3	8	2
HJHMI373/150	2x75 or 147	373	150	373	80	110	92.5	92.5	3	8	2
HJHMI400/150	2x75 or 147	400	150	400	80	110	92.5	92.5	3	8	2
HJHMI417/150	2x75 or 147	417	150	417	80	110	92.5	92.5	3	8	2
HJHMI421/150	2x75 or 147	421	150	421	80	110	92.5	92.5	3	8	2
HJHMI195/182	2x89-90	195	182	195	80	110	92.5	92.5	3	8	2
HJHMI200/182	2x89-90	200	182	200	80	110	92.5	92.5	3	8	2
HJHMI220/182	2x89-90	220	182	220	80	110	92.5	92.5	3	8	2
HJHMI225/182	2x89-90	225	182	225	80	110	92.5	92.5	3	8	2
HJHMI235/182	2x89-90	235	182	235	80	110	92.5	92.5	3	8	2
HJHMI240/182	2x89-90	240	182	240	80	110	92.5	92.5	3	8	2
HJHMI245/182	2x89-90	245	182	245	80	110	92.5	92.5	3	8	2
HJHMI253/182	2x89-90	253	182	253	80	110	92.5	92.5	3	8	2
HJHMI300/182	2x89-90	300	182	300	80	110	92.5	92.5	3	8	2
HJHMI350/182	2x89-90	350	182	350	80	110	92.5	92.5	3	8	2
HJHMI360/182	2x89-90	360	182	360	80	110	92.5	92.5	3	8	2
HJHMI400/182	2x89-90	400	182	400	80	110	92.5	92.5	3	8	2
HJHMI220/196	2x97	220	196	220	80	110	92.5	92.5	3	8	2
HJHMI225/196	2x97	225	196	225	80	110	92.5	92.5	3	8	2
HJHMI235/196	2x97	235	196	235	80	110	92.5	92.5	3	8	2
HJHMI240/196	2x97	240	196	240	80	110	92.5	92.5	3	8	2
HJHMI245/196	2x97	245	196	245	80	110	92.5	92.5	3	8	2
HJHMI253/196	2x97	253	196	253	80	110	92.5	92.5	3	8	2
HJHMI300/196	2x97	300	196	300	80	110	92.5	92.5	3	8	2

# Technical data sheet



## HJHMI Heavy Masonry Hanger for I-Joists and Metal Web Joists

References	Joist Size [mm]		Product Dimensions [mm]							Joist holes	
	Width	Height	A	B	C	D	E	F	t	Triangular Hole	Ø6x4 Oblong
HJHMI350/196	2x97	350	196	350	80	110	92.5	92.5	3	8	2
HJHMI400/196	2x97	400	196	400	80	110	92.5	92.5	3	8	2
HJHMI195/246	2x122	195	246	195	80	110	92.5	92.5	3	8	2
HJHMI200/246	2x122	200	246	200	80	110	92.5	92.5	3	8	2
HJHMI220/246	2x122	220	246	220	80	110	92.5	92.5	3	8	2
HJHMI225/246	2x122	225	246	225	80	110	92.5	92.5	3	8	2
HJHMI253/246	2x122	253	246	253	80	110	92.5	92.5	3	8	2
HJHMI304/246	2x122	304	246	304	80	110	92.5	92.5	3	8	2
HJHMI373/246	2x122	373	246	373	80	110	92.5	92.5	3	8	2
HJHMI195/296	2x147	195	296	195	80	110	92.5	92.5	3	8	2
HJHMI200/296	2x147	200	296	200	80	110	92.5	92.5	3	8	2
HJHMI220/296	2x147	220	296	220	80	110	92.5	92.5	3	8	2
HJHMI225/296	2x147	225	296	225	80	110	92.5	92.5	3	8	2
HJHMI253/296	2x147	253	296	253	80	110	92.5	92.5	3	8	2
HJHMI304/296	2x147	304	296	304	80	110	92.5	92.5	3	8	2



### Product Capacities - Timber to Masonry

References	Number of Fasteners		Characteristic Capacities [kN]				Safe working loads [kN]			
	Joist		$R_{1,k}$			$R_{2,k}$	$R_{1,SWL,Long Term}$			$R_{2,SWL,Short Term}$
	Qty	Type	2.8N/mm <sup>2</sup> Solid AAC	3.5N/mm <sup>2</sup> Solid LAC	7N/mm <sup>2</sup> Solid DAC		2.8N/mm <sup>2</sup> Solid AAC	3.5N/mm <sup>2</sup> Solid LAC	7N/mm <sup>2</sup> Solid DAC	
HJHMI (40-74)	2	N3.75x30	16	16	30	1.8	8	8	15	1
HJHMI (75-200)	2	N3.75x30	16	29.7	30	1.8	8	14.8	15	1
HJHMI (201-300)	2	N3.75x30	15.1	15.1	37.6	1.8	8.2	8.2	21.5	1
HJHMI (91-200)	8	N4x90	16.02	29.7	41.8	1.8	8	14.8	20.9	1

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## Installation

### Installation

- Built-in inspection slot at the base of the hanger to aid inspection from the ground.
- HJHM: Heavy duty masonry hanger for higher load carrying capacity.
- Top flange provides widest area in contact with masonry support allowing superior performance.
- Embossments on JHM stiffen top flange and holes allow improved mortar keying.
- Side flange is much higher than traditional style, providing greatly enhanced resistance to joist rotation.



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## Technical Notes

### Notes

1. The above Safe Working Loads are based upon product tests using four No. Hilti 12mm X-EDNI steel pins fired through holes provided in the top flange of the hangers onto 4mm thick steel plate. Other pins may be used provided similar structural performance is verified by the pin manufacturer. Pin Head size must be sufficient to prevent pull through during loading.
2. The designer must ensure that the steel support member will support the imposed loads.
3. Install shot-fired pins in accordance with manufacturer's instructions.

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## Options

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- Return configuration provides additional support by wrapping around three sides of the block. Designate "return" and length of return dimensions when ordering.
- RETURN HANGERS DO NOT SATISFY THE REQUIREMENTS FOR LATERAL RESTRAINT TYPE HANGERS.
- Straddle configuration provides two hangers connected across top of support enabling exact alignment on both sides of supporting wall. Designate "straddle" and length of straddle dimensions when ordering.
- Other widths and heights available to order. Contact Simpson Strong-Tie® for details.
- SPEC JHM's up to 61mm width can be skewed from 5 to 45 deg. See skewed hanger load table.

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