MTC
S O L U T I O N S

MASS TIMBER CONNECTIONS
BEAM HANGER SELECTION CHARTS

ASD Design for United States

Document's Purpose

This document offers project managers, designers & purchasers easy to read tables to efficiently select and substitute the most cost efficient beam hangers for any given loading up to 32 kip. The first row in the table lists the top five most cost efficient options for 1 kip loading (in ASD) and the following rows continue with1 kip increments in loading up to 32 kip. Hardware pricing may vary, therefore, the data in this document is only intended as a point of reference and should not be assumed to be final. For more information, please reach out to our sales support team.

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How to Read this Document

	GIGANT			RICON S VS				MEGANT		DOUBLE RICON S VS		
Required Resistance	Connector Sizes											
	120 x 40	150 x 40	180 x 40	140 x 60	200 x 60	200 x 80	290 x 80	310 x 60	430 x 60	140 x 60	200 x 60	200 x 80
1 KIP (ASD)	👑1	👑2	👑3	4	5	-	-	-	-	-	-	-
2 KIP (ASD)	-	-	👑1	👑2	👑3	4	-	-	-	5	-	-
3 KIP (ASD)	-	-	-	👑1	👑2	👑3	5	-	-	4	-	-

The most cost-efficient beam hanger for applications developing up to 1 kip resistance. The total costs include the costs of hardware and installation.

Ricon S VS sizes available at specified resistance range.

Double beam hanger systems require more precision during installation compared to single beam hanger systems. This ensures that both components of each beam hanger slide into place smoothly.

Notes:

1. MTC Solutions offers a number of beam hanger solutions to solve your mass timber-specific design challenges. Refer to MTC Solutions' **Beam Hanger Design Guide** for more information and considerations when designing with any of our beam hanger systems.

2. The rankings are derived for connection strength in wood-to-wood connections with specific gravity G ≥ 0.50 according to Allowable Stress Design (ASD) in the US. Please refer to MTC Solutions' **Beam Hanger Design Guide** and the NDS-2018 for detailed connection design.

Beam Hanger Selection Charts

| | GIGANT | | | RICON S VS | | | | MEGANT | | DOUBLE RICON S VS | | |

Required Resistance	Connector Sizes											
	120 x 40	150 x 40	180 x 40	140 x 60	200 x 60	200 x 80	290 x 80	310 x 60	430 x 60	140 x 60	200 x 60	200 x 80
1 KIP (ASD)	1	2	3	4	5	-	-	-	-	-	-	-
2 KIP (ASD)	-	-	1	2	3	4	-	-	-	5	-	-
3 KIP (ASD)	-	-	-	1	2	3	5	-	-	4	-	-
4 KIP (ASD)	-	-	-	-	1	2	4	-	-	3	5	-
5 KIP (ASD)	-	-	-	-	-	1	3	5	-	2	4	-
6 KIP (ASD)	-	-	-	-	-	1	3	5	-	2	4	-
7 KIP (ASD)	-	-	-	-	-	-	1	3	5	-	2	4
8 KIP (ASD)	-	-	-	-	-	-	1	3	5	-	2	4

Note: Please refer to the notes on page 3.

RICON S VS · **MEGANT** · **DOUBLE RICON S VS**
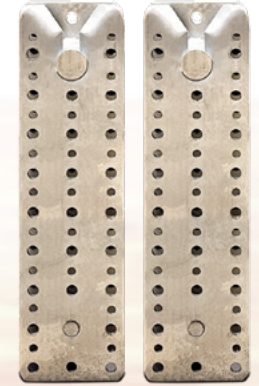
Required Resistance	Connector Sizes										200 x 80	290 x 80	390 x 80 XL
	390 x 80 XL	430 x 60	550 x 60	310 x 100	430 x 100	550 x 100	310 x 150	430 x 150	550 x 150				
9 KIP (ASD)	1	3	5	4	-	-	-	-	-		2	-	-
10 KIP (ASD)	1	3	5	4	-	-	-	-	-		2	-	-
11 KIP (ASD)	1	3	4	-	-	-	-	-	-		2	5	-
12 KIP (ASD)	1	3	4	-	-	-	-	-	-		2	5	-
13 KIP (ASD)	1	-	-	-	3	5	4	-	-		-	2	-
14 KIP (ASD)	1	-	-	-	3	4	-	5	-		-	2	-
15 KIP (ASD)	1	-	-	-	3	4	-	5	-		-	2	-
16 KIP (ASD)	-	-	-	-	1	2	-	3	5		-	-	4

Note: Please refer to the notes on page 3.

MEGANT

DOUBLE RICON S VS

Required Resistance	Connector Sizes					390 x 80 XL
	430 x 100	550 x 100	430 x 150	550 x 150	730 x 150	
17 KIP (ASD)	👑1	👑2	👑3	5	-	4
18 KIP (ASD)	-	👑1	👑2	4	5	👑3
19 KIP (ASD)	-	👑1	👑2	4	5	👑3
20 KIP (ASD)	-	-	👑1	👑3	4	👑2
21 KIP (ASD)	-	-	👑1	👑3	4	👑2
22 KIP (ASD)	-	-	👑1	👑3	4	👑2
23 KIP (ASD)	-	-	-	👑2	👑3	👑1
24 KIP (ASD)	-	-	-	👑2	👑3	👑1

Note: Please refer to the notes on page 3.

MEGANT

DOUBLE RICON S VS

Required Resistance	Connector Sizes			390 x 80 XL
	550 x 150	730 x 150		
25 KIP (ASD)	2	3		1
26 KIP (ASD)	2	3		1
27 KIP (ASD)	1	2		-
28 KIP (ASD)	1	2		-
29 KIP (ASD)	1	2		-
30 KIP (ASD)	1	2		-
31 KIP (ASD)	1	2		-
32 KIP (ASD)	-	1		-

Note: Please refer to the notes on page 3.