

Type of Connection	SMF Span/Depth	IMF Span/Depth
Reduced Beam Section (RBS)	7	5
Bolted Unstiffened Extended End-Plate	7	5
Bolted Stiffened Extended End-Plate	7	5
Bolted Flange Plate (BFP)	9	7
Welded Unreinforced Flange-Welded Web (WUF-W)	7	5
Kaiser Bolted Bracket (KBB)	9	9
ConXtech	7	5
SidePlate	4.5	3
Simpson Strong-Tie Strong Frame	No Limits	No Limits
Double Tee	9	9



Type of Connection	Beam Depth Limit	Beam Weight Limit	Beam tbf	Beam Width Req.
Reduced Beam Section (RBS)	W36x	300 lb/ft	1.75"	None
Bolted Unstiffened Extended End-Plate	Table 6.1, AISC 358		1"	None
Bolted Stiffened Extended End-Plate	Table 6.1, AISC 358		0.75"	None
Bolted Flange Plate (BFP)	W36x	150 lb/ft	1"	None
Welded Unreinforced Flange-Welded Web (WUF-W)	W36x	150 lb/ft	1"	None
Kaiser Bolted Bracket (KBB)	W33x	130 lb/ft	1"	6" to 10" min based on type of bracket
ConXtech	W18x-W30x	132 lb/ft	1"	12" Max
SidePlate	W40x**	302 lb/ft**	2.5"	Typically 1.5-2" less than column
Simpson Strong-Tie Strong Frame	W16x	None	0.40"	None
Double Tee	W24x	55 lb/ft	0.625"	None



Type of Connection	Column Depth Limit	Column Weight <u>Limit</u>	Column tbf
Reduced Beam Section (RBS)	W36x	None	None
Bolted Unstiffened Extended End-Plate	W36x	None	None
Bolted Stiffened Extended End-Plate	W36x	None	None
Bolted Flange Plate (BFP)	W36x	None	None
Welded Unreinforced Flange-Welded Web (WUF-W)	W36x	None	None
Kaiser Bolted Bracket (KBB)	W36x	None	None
ConXtech	HSS 16x16 or 16" Built Up Box Column	None	3/8" Min
SidePlate	W44x	None	None
Simpson Strong-Tie Strong Frame	W18x	None	None
Double Tee	W36x	None	None



Type of Connection	Protected Zone Length	First Lateral Brace	
Reduced Beam Section (RBS)	dbeam to end of RBS cut	Near RBS cut, no greater than d/2 away	
Bolted Unstiffened Extended End-Plate	Lesser Of: dbeam OR 3*bf from face of column	Per AISC 341	
Bolted Stiffened Extended End-Plate	Lesser Of: dbeam OR 3*bf from face of column	Per AISC 341	
Bolted Flange Plate (BFP)	Plates and bolted flanges of beam + dbeam	No greater than 1.5dbeam away from face of column	
Welded Unreinforced Flange-Welded Web (WUF-W)	dbeam from face of column	n Between dbeam and 1.5dbear away from face of column	
Kaiser Bolted Bracket (KBB)	Plates and bolted flanges of beam + dbeam	Between dbeam and 1.5dbeam away from face of column	
ConXtech	dbeam to end of RBS cut	Per AISC 341	
SidePlate	0.833*dbeam past SidePlate**	Per AISC 341 past end of SidePlate	
Simpson Strong-Tie Strong Frame	Yield Links, Shear Plate, and portion of beam in contact with them	AISC 360	
Double Tee	Plates and bolted flanges of beam + dbeam	Between dbeam and 1.5dbeam away from farthest bolt	