masterSERIES

Technical Note

Title: Connection Section types

Date: 01/05/2019

Versions: All

Program: Moment & Simple Connections – MasterSeries 2019

Symbol	
I	UB, UC, RSJ, W, IPN, ….OLS*
I_{plt}	Built-Up I sections created in Joints
I_{asb}	ASB
[	RSC, PFC, ….OLS*
□	SHS, ….OLS*
▯	RHS, ….OLS*
○	CHS, ….OLS*
─	Flat
L	L or Ang angle

*OLS = Open Library Sections. Sections created in the relevant Section Open Library.

Joint Type	Beams / Brace	Columns/Supporting Beam
Eaves	I I_{plt} I_{asb}	I I_{plt}* I_{asb}*
Apex	I I_{plt} I_{asb}	I I_{plt}* I_{asb}*
Base Plate		I I_{plt}* I_{asb}* □ ▯ ○
Beam Splice	I I_{plt} I_{asb}	
Column Splice		I I_{plt}* I_{asb}*
Hollow Splice	□ ▯ ○	
Beam Over Column	I I_{plt} I_{asb}	I I_{plt}* I_{asb}*
Beam Under Column	I I_{plt} I_{asb}	I I_{plt}* I_{asb}*
Beam to Beam Flexible End-Plate	I I_{plt} I_{asb} [	I I_{plt} I_{asb} [
Beam to Beam Fin Plate	I I_{plt} I_{asb} [	I I_{plt} I_{asb} [
Beam to Beam Angle Cleats	I I_{plt} I_{asb} [	I I_{plt} I_{asb} [
Beam to Col Flexible End-Plate	I I_{plt} I_{asb} [	I I_{plt}* I_{asb}*
Beam to Col Fin Plate	I I_{plt} I_{asb} [	I I_{plt}* I_{asb}* □ ▯ ○

Beam to Col Angle Cleats	I I_{plt} I_{asb} [	I I_{plt}* I_{asb}*
Column Vertical Bracing	— L [□ ▯ ○	I I_{plt}* I_{asb}* □ ▯ ○
Base Plate Vertical Bracing	— L [□ ▯ ○	I I_{plt}* I_{asb}* □ ▯ ○
Beam Vertical Bracing	— L [□ ▯ ○	I I_{plt}* I_{asb}* L [□ ▯ ○
Beam Horizontal Bracing	— L [□ ▯ ○	I I_{plt}* I_{asb}* [□ ▯ ○

* Will assume the Section to be symmetrical ignoring asymmetry.