

This Excel Sheet uploaded in pdf format gives a detailed design of four bolt unstiffened extended end plate connection type 4E. The design is as per AISC Design Guide 4 - Extended End-Plate Moment Connections Seismic and Wind Applications –second edition. Used in Steel Structures and Pre Engineered Buildings.

cells marked yellow is for user input

cells marked Pink gives drop-down list of beam sections and column sections as per AISC Database.

So the user can have different combination of Column and Beam section for Moment Connection design.

There is also a Drop down list for bolt dia and Plate thickness.

There is also a Master Check sheet in the beginning which tell the user whether all the Design Criteria are satisfied or not.

The Excel sheet is for sale and works on for one computer for four years on which it is configured.

Please visit my website www.abqiconsultants.com for more details.

Thanking you

Ahmed Basheer Quadri (B.Tech (Civil) Honr., MSc, FEV, Chartered Engineer), Alumnus IIT Kharagpur

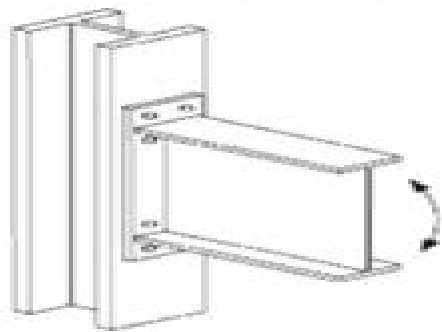
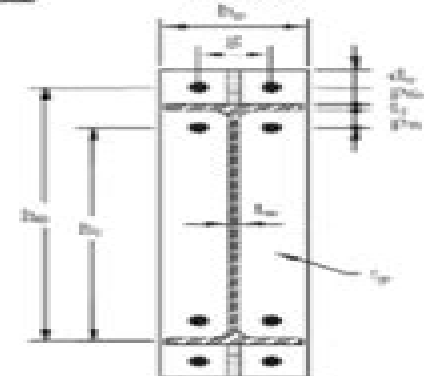
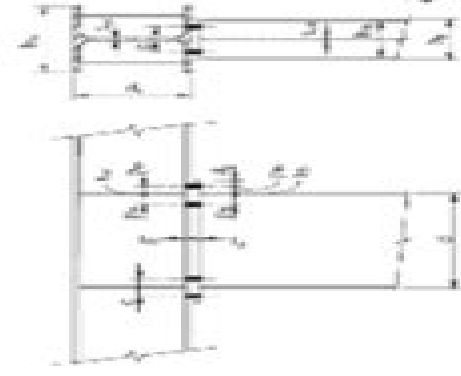
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Project : Students neighborhood center				
Subject : Police Station			Description : Ground Floor Load calculations	

Ref	Calculation	Output
5.2 Design of Four-Bolt Unstiffened Extended (E) End-Plate Connection 4E Example A  Fig. 5.2 Four-Bolt Unstiffened, 4E	Cell for Drop-Down list 	Cell for Inputting user data  Fig. 5.2 Four-Bolt Unstiffened extended, 4E, end plate geometry.
Beam	W21x55 (ASTM A992 Steel)	End Plate Type 4E (ASTM A572 Or 50 Steel)
Column	W14x109 (ASTM A992 Steel)	Bolts ASTM A-550
Shear Res. Ineq. : Vu =	40.00 Kips	

Aisc Design Guide No 1

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