

ANCHOR BOLT DESIGN**Combined Tension, Shear and Moment**

Anchor bolt design based on

CSA-A23.3-04 (R2010) *Design of Concrete Structures Annex D*

ACI 318M-08 *Metric Building Code Requirements for Structural Concrete and Commentary*

PIP STE05121 *Anchor Bolt Design Guide-2006*

Code Abbreviation

A23.3-04 (R2010)

ACI318 M-08

PIP STE05121

Code Reference

A23.3-04 (R2010)

D.5.4 (c)

ACI318 M-08

D.5.2.9 & D.6.2.9

A23.3-04 (R2010)

D.4.1

Assumptions

1. Concrete is cracked
2. Condition A- supplementary reinforcement is provided
3. Anchor reinf. strength is used to replace concrete tension / shear breakout strength as per ACI318M-08 Appendix D clause D.5.2.9 and D.6.2.9
4. For tie reinf, only the top most 2 or 3 layers of ties ($2s''$ from TOC and $2s''$ after) are effective
5. Strut-and-Tie model is used to analyze the shear transfer and to design the required tie reinf.
6. For anchor group subject to moment, the anchor tensile load is designed using elastic analysis and there is no redistribution of the forces between highly stressed and less stressed anchors
7. For anchor tensile force calc in anchor group subject to moment, assume the compression resultant is at the outside edge of the compression flange and base plate exhibits rigid-body rotation. This simplified approach yields conservative output.
8. Shear carried by only half of total anchor bolts due to oversized holes in column base plate

AISC Design Guide 7
section 3.5.3

Anchor Bolt Data

Factored moment

$$M_u = 47.4 \quad [\text{kNm}] = 35.0 \quad [\text{kip-ft}]$$

Factored tension /compression

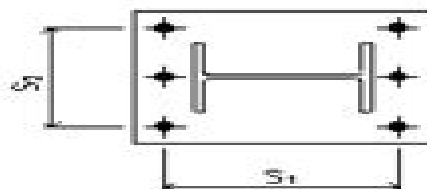
$$N_u = -44.5 \quad [\text{kN}] \quad \text{in compression} = -10.0 \quad [\text{kips}]$$

Factored shear

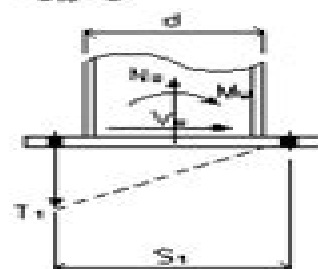
$$V_u = 111.2 \quad [\text{kN}] = 25.0 \quad [\text{kips}]$$

Factored shear for design

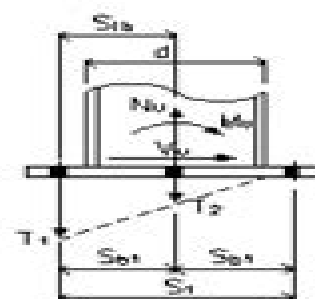
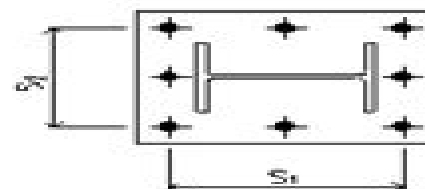
$$V_u = 111.2 \quad [\text{kN}] \quad V_u = 0 \text{ if shear key is provided}$$



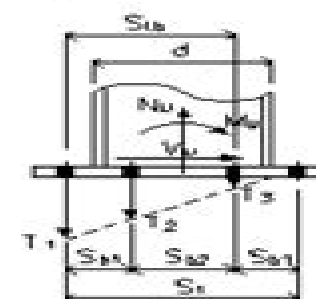
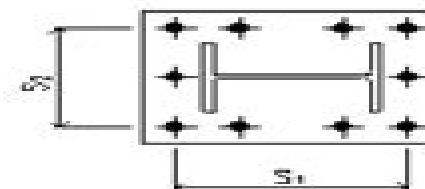
$$S_{e0} = 0$$



2 BOLT LINE



3 BOLT LINE



4 BOLT LINE

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E Durkheim



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