

Composite Steel Beam and Concrete Slab Design per AISC Specs

Structural Steel Pinned Base Plate Design per AISC 360-10

Yesterday (3)

Apex Connection YTE 2016-AISC360-10

Fixed Steel Base Plate Design

wind load analysis – Force Resisting System Per ASCE 7-10

A long time ago (5)

Beam column Check YTE 2016-AISC360-10

Beam To Beam Connection YTE 2016-AISC360-10

Fixed Steel Base Plate With Studs Design

Structural Steel Profile Design per AISC 360-10 Specs

Structural Steel Beam-to-Column Connection Design per AISC 360-10

Beam-Column Connection Check acc. To AISC 360-10 ASD

Section	Area	F_u	F_y	A_g
Designation of section	W12	580	485	300
Area of section	300	200	200	300
Area of section	300	200	200	300
Area of section	300	200	200	300

Section	F_u	F_y	A_g	A_n	A_e	Result
W12	580	485	300	200	200	OK

Section	F_u	F_y	A_g	A_n	A_e
W12	580	485	300	200	200

Section	Area	Result
W12	300	OK

Sheet No.	Name	Date
Designed by		
Checked by		
Approved by		

Fixed Base Design Acc. To AISC-360B

Sectional and built arrangement

Profile: W12x50

Depth: 310.0 mm

Flange width: 200.0 mm

Flange thickness: 15.0 mm

Web thickness: 11.0 mm

Plate length: 400.0 mm

Plate width: 200.0 mm

Plate thickness: 15.0 mm

Area of base plate: 20000.0 mm²

Both Ways & Studs data

Stud diameter: 20 mm

Number of bolts in one side: 3

Vertical spacing: 100.0 mm

Horizontal spacing: 100.0 mm

Embedment length: 100.0 mm

Clear height: Anchor bolt with end plate

Clear plate dimension: 100.0 mm

Concrete slab data

Support thickness: 100.0 mm

Initial projection C_{top} : 100.0 mm

Vertical projection C_{bot} : 100.0 mm

Support dimension: 100.0 mm

Area of base plate: 20000.0 mm²

Concrete slab f'_c : 25.0 MPa

Steel yield strength F_y : 485 MPa

Steel ultimate strength F_u : 580 MPa

Modulus of elasticity E : 200000 MPa

Base thickness: 15.0 mm

STEEL PROFILES ACC. TO AISC 360-10

The dimensions of the cross-section and the nominal properties are:

Section properties

Section dimension	W12	W12	W12
A	3000.0 mm ²	$A_g = 3000.0 \text{ mm}^2$	$A_n = 2000.0 \text{ mm}^2$
d	310.0 mm	$W_x = 200000 \text{ mm}^3$	$W_y = 200000 \text{ mm}^3$
b	200.0 mm	$I_x = 2000000 \text{ mm}^4$	$I_y = 2000000 \text{ mm}^4$
t _f	15.0 mm	$S_x = 200000 \text{ mm}^3$	$S_y = 200000 \text{ mm}^3$
t _w	11.0 mm	$r_x = 100.0 \text{ mm}$	$r_y = 100.0 \text{ mm}$
v	20.0 mm	$C_x = 200000 \text{ mm}^3$	$C_y = 200000 \text{ mm}^3$

Element's length: 10.00 m

RF Length factor for bending about x-x: 1.00

RF Length factor for bending about y-y: 1.00

Unbraced length in x-direction: 10.00 m

Unbraced length in y-direction: 10.00 m

Unbraced length for torsion: 10.00 m

Material properties

Material properties: Steel grade: S 485

Base yield strength: $F_y = 485 \text{ MPa}$

Tensile strength: $F_u = 580 \text{ MPa}$

Modulus of elasticity: $E = 200000 \text{ MPa}$

Base thickness: $t = 15.0 \text{ mm}$



The Steel Design Collection contains many Excel Sheets that comply with AISC Standards.

Aisc Steel Design 11

Sebastian Brünink



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