

WF Base Plate Design Based on AISC-ASD 9th Edition

INPUT DATA & DESIGN SUMMARY

AXIAL LOAD OF COMPRESSION

CONCRETE STRENGTH

COLUMN SIZE

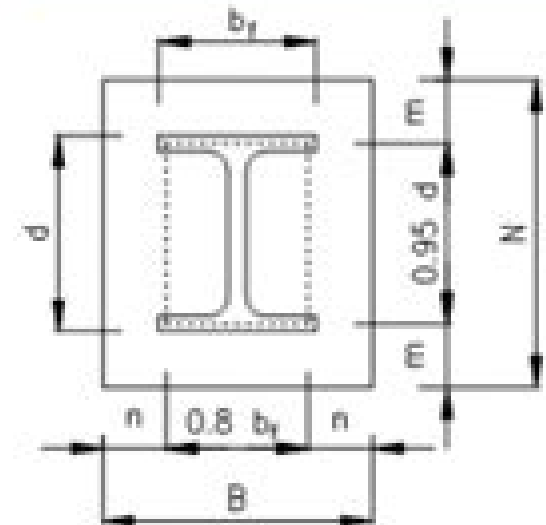
BASE PLATE SIZE

AREA OF CONCRETE SUPPORT

(geometrically similar to and concentric with the loaded area.)

$P = 600$ kips

$$f_c = 3 \text{ ksi}$$

$$H = 19 \text{ in}$$
$$B = 16 \text{ m}$$
$$A_0 = 1156 \text{ m}^2$$


USE

19

16

150

In thick plates:

ANALYSIS

CHECK BEARING PRESSURE [Page 3-107]

$$P/A_1 \rightarrow 0.35 f_u$$

(1.97) (1.05)

◄ = Not govern

Where $A_1 = 304 \text{ in}^2$, actual area of base plate.

$$P/A_1 \leq \text{MIN} [0.35 f_c (A_3/A_1)^{0.5}, 0.7 f_c]$$

(1.97) (2.05)

[Satisfactory]

DETERMINE THE VALUE OF m AND n :

ASD

LAFD



Aisc Asd 9th Edition

**American Institute of Steel
Construction**



Aisc Asd 9th Edition:

Guide to Stability Design Criteria for Metal Structures Theodore V. Galambos, 1998-06-15 This book provides simplified and refined procedures applicable to design and to accessing design limitations and offers guidance to design specifications codes and standards currently applied to the stability of metal structures Design Aids for Offshore Topside Platforms Under Special Loads Srinivasan Chandrasekaran, Arvind Kumar Jain, Nasir Shafiq, M. Mubarak A. Wahab, 2021-11-25

Offshore platforms face many risks including a hostile ocean environment extreme temperatures overpressure loads fire risks and hydrocarbon explosions all of which pose unique challenges in designing their topside platforms The topside design also involves the selection of appropriate materials to reduce fire risk without compromising the functional requirements These platforms serve valuable utility production and processing purposes and can also provide living quarters for personnel Concepts such as basic design special design materials selection and risk hazards are explained in the authors straightforward classroom style and are based on their rich experience in both academia and industry Features Includes practical examples which are solved using international codes to offer a better understanding of the subjects presented Addresses safety and risk of offshore platforms and considers numerous topside accident scenarios Discusses the structural and mechanical properties of various materials such as steel and newer functionally graded materials FGMs Design Aids for Offshore Topside Platforms Under Special Loads serves as a design manual for multi disciplinary engineering graduates and practicing professionals working in civil mechanical offshore naval and petroleum engineering fields In addition the book will serve as reference manual for practicing design engineers and risk assessors

Fundamentals of Engineering National Council of Examiners for Engineering and Surveying, 2003 Steel Buildings Stanley W. Crawley, Robert M. Dillon, 1993 This volume presents the general principles of structural analysis and their application to the design of low and intermediate height building frames The text is accompanied by software for the analysis of axial forces displacement and the bending moment and the determination of shear Seismic Design for Buildings, 1993

Manual of Steel Construction: Connections American Institute of Steel Construction, 1992 Includes bibliographical references and index **Civil Engineering** Donald G. Newnan, 2004 This volume is a study guide for the civil engineer taking the PE exam Solved problems throughout each chapter reinforce the concepts discussed in the text **Modern Steel Construction**, 2008 **Handbook of Structural Engineering** W.F. Chen, E.M. Lui, 2005-02-28 Continuing the best selling tradition of the Handbook of Structural Engineering this second edition is a comprehensive reference to the broad spectrum of structural engineering encapsulating the theoretical practical and computational aspects of the field The contributors cover traditional and innovative approaches to analysis design and rehabilitation New topics include fundamental theories of structural dynamics advanced analysis wind and earthquake resistant design design of prestressed structures high performance steel concrete and fiber reinforced polymers semirigid frame structures structural bracing and structural

design for fire safety **Proceedings** ,1998

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web whale sharks rhincodon typus are the largest shark and indeed largest of any fishes alive today they feed on plankton and travel large distances to find enough food to sustain their huge size and to reproduce whale sharks

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web jun 2 2012 off the coast of venezuela we encounter the whale shark the biggest of all the fish in the ocean in this clip a shoal of bait fish are using the whale shark as a protective shield however

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web the whale shark is the largest fish in the world and the largest fish known to have lived on this planet because of its size and cartilaginous skeleton it does not fossilize well and in life it is very difficult to weigh accurately the largest accurately measured whale shark was 61 7 feet 18 8 m

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web whale shark scientific name rhincodon typus type fish diet carnivore group name school average life span in the wild 70 years size 18 to 32 8 feet weight 20 6 tons size relative to a bus

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web she found that the whale sharks in offshore habitats travelled more and occupied deeper waters than those within the bay it appears that the younger male whale sharks are more opportunistic and for many the ready supply of food at the bagan platforms in cenderawasih bay was reason enough to stay

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web a whale shark the size of a school bus swims slowly near the surface of the ocean its wide mouth is open like an enormous net scooping up whatever happens to be around mostly small fish fish

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web whale sharks are highly migratory and it is thought that their movement is associated both with abundance of food in the area as well as breeding behaviors scientists are still researching the life cycle of whale sharks but it is believed that male whale sharks begin maturing around 17 years old and females around 19 22 years old

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web the whale shark rhincodon typus is a slow moving filter feeding carpet shark and the largest known extant fish species the largest confirmed individual had a length of 18 8 m 61 7 ft the whale shark holds many records for size in the animal kingdom most notably being by far the largest living nonmammalian vertebrate

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web the whale shark is oviparous meaning the female sharks produce eggs that are hatched inside of her these eggs are not all born at once but are born in a steady stream over a certain period able to birth around 300 young whale sharks reach sexual maturity at 30 years and live to a total of around 70 to 100 years

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