

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

INPUT DATA & DESIGN SUMMARY

AXIAL LOAD OF COMPRESSION

$$P = 600 \text{ kips}$$

CONCRETE STRENGTH

$$f'_c = 3 \text{ ksi}$$

COLUMN SIZE

=> W12x106

BASE PLATE SIZE

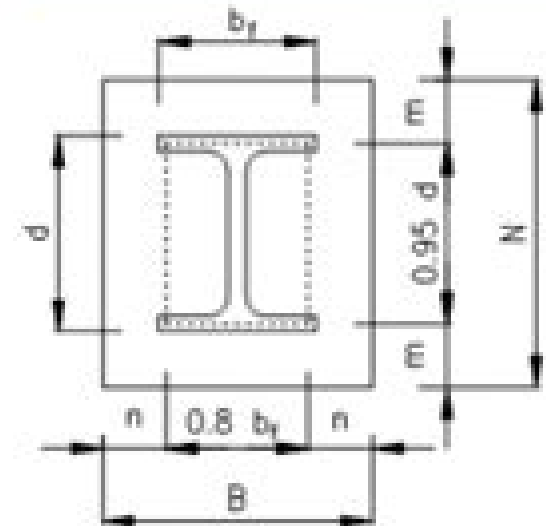
$$N = 19 \text{ in}$$

$$B = 16 \text{ in}$$

AREA OF CONCRETE SUPPORT

$$A_2 = 1156 \text{ in}^2$$

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



USE

19 x 16
1.5/8 in thick plate

ANALYSIS

CHECK BEARING PRESSURE [Page 3-107]:

$$P / A_1 > 0.35 f_c$$

$$(1.97) > (1.05)$$

< = Not govern

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

$$P / A_1 < \text{MIN} [0.35 f_c (A_2 / A_1)^{2/3}, 0.7 f_c]$$

$$(1.97) < (2.05)$$

[Satisfactory]

DETERMINE THE VALUE OF m AND n :

Aisc Asd 9th Edition

RS Peters



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

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- Chapter 5: Conclusion

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6. In chapter 5, this book will draw a conclusion about Aisc Asd 9th Edition. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Aisc Asd 9th Edition.

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