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## **Engineering Software**

**Design example of a shear lug welded to a base plate to resist high shear forces, considering the friction between the base plate and the concrete support.**

## **Design of Structural Steel Joints**



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**9. The "Shear Lug" worksheet follows the AISC "Steel Design Guide Series #7 - Industrial Buildings - Roofs to Column Anchorage" (page 33 and pages 38-40). 10. The "Base Plate (Table)" worksheet enables the user to analyze/design virtually any number**

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**of individual column bases or  
column load combinations.**

**Shear Lug Design Example Using  
ASDIP STEEL - YouTube  
Michler, H., M. Curbach, Behaviour  
and Design of Fastenings of Shear  
Lugs in Concrete, International**

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**Symposium on Connections  
Between Steel and Concrete, Rilem,  
Stuttgart, Germany, September  
2001 ...**

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**spending more cash. still when? do you admit that you require to get those every needs when having significantly cash?**

**Are You Designing Your Shear Lugs Correctly?**

**Design of shear lugs for column**

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**base plates. The design is based on the procedure presented in AISC Steel Design Guide 1, Base Plate and Anchor Rod Design, 2nd Edition and AISC Steel Design Guide 7, Industrial Buildings, Roofs to Anchor Rods, 2nd Edition. Calculation Reference Building**

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**Code Requirements for Structural  
Concrete, ACI 318-08, (ACI ...**

**Using a Shear Lug at a Base Plate?  
: StructuralEngineering  
Shear lugs are steel elements  
welded to the underside of base  
plates to resist shear loads. ASDIP**

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**STEEL is a structural engineering software for the design o...**

## **6.9: Shear Lag - Engineering LibreTexts**

**There has recently been a discussion in my office regarding the adequacy of using a shear lug**



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**at a moment frame base plate.  
Some think that they cannot  
adequately transfer the shear and  
that there are flaws in the design  
methods for shear lugs. I have tried  
doing research on the topic and  
have found very little data.**

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## 9 Shear Lug Design Structural Engineering Software | www ...

Shear lugs are steel elements welded to the underside of base plates to resist shear loads. The design of shear lugs is covered by the ACI 349 anchorage provisions. This article is an

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overview of ...

**Shear Lug Design.xls - ExcelCalcs  
Design Code Reference Shear Lug /  
Shear Key design based on Code  
Abbreviation: ACI 349-06 Code  
Requirements for Nuclear Safety-  
Related Concrete Structures &**

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**Commentary ACI 349-06: AISC  
Design Guide 1: Base Plate and  
Anchor Rod Design 2nd Edition  
AISC Design Guide 1**

**9 Shear Lug Design Structural  
9. Shear Lug Design Normally,**

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**friction and the shear capacity of the anchors used in a foundation adequately resist column base shear forces. In some cases, however, the engineer may find the shear force too great and may be required to transfer the excess shear force to the foundation by**

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another means.

**Lift Lug calc for Skid  
Description. Size Range: 1/2"  
through 3-3/4" Material: Carbon  
steel Finish: Plain or Hot-Dip  
Galvanized Service: For attachment  
to structural steel in conjunction**

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**with the Fig. 299 clevis and with  
type C variable spring hanger or  
Type C Constant Support. Maximum  
Temperature: Plain 750° F,  
Galvanized 450° F Approvals:  
Complies with Federal Specification  
A-A-1192A (Type 57), WW-H-171-E  
(Type ...**

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## **Shear Analysis and Design for Shear**

**Design of Structural Steel Joints Dr.  
Klaus Weynand Feldmann +  
Weynand GmbH, Aachen, Germany  
Prof. Jean-Pierre Jaspart University  
of Liège, Belgium. Design of ...**



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**Component No 1 –Column web in  
shear**  $V_{wp}$   $V_{wp}$   $J$   $F$   $M$   $z$   $F$  3,, 0 0,9  
0,9 1307,6 235 10 159,7 3 3 1,0  $v_c$   $y$   
 $c_w$   $w_c$   $R_d$   $M$   $A_f$   $V$   $kN$   $J$   $u$   $u$   $u$   $u$   
**Assumption :**  $1E$  ,,1 159,7 159,7 1  
 $w_c$   $R_d$   $R_d$   $V$   $F$  ...

**BASEPLT9 - Steel Column Base**

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**Plate Analysis per AISC 9th ...**

**Lug thickness,  $t_L A = 42.9$  mm 40**

**Lug radius,  $r_L C = 95.5$  mm 70 Since  
A & C clearance against Lug size ,**

**Therefore the Lug is is**

**ACCEPTABLE Per PTS Section 6.3**

**a) Lug hole diameter,  $d$  shall be Max  
of i)  $D_p + 3\text{mm}$  ii)  $D_p \times 1.05$  b) Lug**

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hole diameter,  $d$  shall be less than  $<$   
( $D_p + 6\text{mm}$ )

**Shear Key or Shear Lug Design - US  
AISC Section  
Engineering Spreadsheets. Lifting  
Lug Design WebCivil. Lifting point  
calculation RUD. 9 Shear Lug**

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Engineering**

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### **(PDF) Use of Shear Lugs for Anchorage to Concrete**

**For ACI, maximum design shear force is the shear applied at that distance “d”, where a 45° crack may lead toward the top of the beam. Stirrups need to be placed at**

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**the face of the support through the  
distance “d”. Design for Shear  
Reinforcement**

**Lifting Lugs Design Calculation  
Excel**

**9.3.1 Lug Bearing Strength Under  
Uniform Axial Load. The bearing**

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**stresses and loads for lug failure involving bearing, shear-tearout, or hoop tension in the region forward of the net-section in Figure 9-1 are determined from the equations below, with an allowable load coefficient (K) determined from Figures 9-2 and 9-3. For values of**

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**e/D less than 1.5, lug failures are  
likely to involve shear ...**

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## **9. Shear Lug Design - Structural Engineering Software**

**9 Shear Lug Design Structural 9.  
Shear Lug Design Normally, friction  
and the shear capacity of the  
anchors used in a foundation  
adequately resist column base**

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**shear forces. In some cases, however, the engineer may find the shear force too great and may be required to transfer the excess shear force to the foundation by another means. 9.**

**Lug Analysis | Engineering Library**

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**This approach is based on the continuity of shear forces and stresses at the beam/plate interface. The determination of the effective breadth falls behind the scope of the present lecture notes. Figure  $\backslash(\backslash\text{PageIndex}\{2\}\backslash)$ : In-plane shear induced by the stiffener is restricted**

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**to an immediate vicinity of the stiffener.**

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