

[1]戎贤,孙永成,任泽民.HRB500钢筋混凝土梁受剪承载力分析[J].自然灾害学报,2008,01:197-201.

RONG Xian,SUN Yong-cheng,REN Ze-min.Analysis of shear bearing capacity of HRB500-reinforced concrete beams[J].,2008,01:197-201.

[点击复制](#)

HRB500钢筋混凝土梁受剪承载力分析(PDF)

《自然灾害学报》[ISSN:/CN:23-1324/X] 期数: 2008年01期 页码: 197-201 栏目: 出版日期: 1900-01-01

Title: Analysis of shear bearing capacity of HRB500-reinforced concrete beams

作者: [戎贤](#); [孙永成](#); [任泽民](#)
河北工业大学土木工程学院, 天津 300132

Author(s): [RONG Xian](#); [SUN Yong-cheng](#); [REN Ze-min](#)
School of Civil Engineering Hebei University of Technology, Tianjin 300130, China

关键词: [斜裂缝宽度](#); [剪切承载力](#); [高强箍筋](#)

Keywords: [diagonal crack width](#); [shear bearing capacity](#); [high-strength stirrup](#)

分类号: TU37

DOI: -

文献标识码: -

摘要: 通过8根集中荷载作用下,配有500MPa钢筋的混凝土梁的受剪承载力破坏试验,分析了500MPa钢筋混凝土梁在使用阶段的受剪承载力,以及T形截面翼缘对裂缝宽度和受剪承载力的影响。同时对矩形梁与T形梁的受剪承载力进行了对比。试验结果表明:T形截面翼缘对斜裂缝的宽度有一定的影响,但影响不大;T形截面的抗剪承载力明显大于矩形截面。

Abstract: The shear bearing capacity of concrete beam with HRB 500 bar and the impact of the T-section's flange at service stage on the width of crack and on the shear bearing capacity were analyzed according to the tests of 8 concrete beams with HRB500 steel bar under concentrated load. The comparison of shear bearing capacity between T-section beam and rectangular one was carried out. There is certain influence of T-section's flange on width of the diagonal crack, but it is not considerable and the shear bearing capacity of the T-section beam is larger than that of rectangular section one.

参考文献/REFERENCES

- [1] GB50010-2002混凝土结构设计规范[S].北京:中国建筑工业出版社,2002.
- [2] 丁大钧.试论钢筋混凝土构件裂缝力学机理[J].土木工程学报,1983,16(1):41-7.
- [3] 金琰,苏幼坡,康谷贻.集中荷载作用高强钢筋混凝土梁斜裂缝的出现与发展[J].建筑结构,2003,(1):15-16.
- [4] 董春敏.均布荷载下高强钢筋混凝土梁抗剪性能研究[D].天津:天津大学,2003.
- [5] Joint A SCE-ACI Task Committee 426.The Shear Strength of Reinforced Concrete Members[J].ASCE,1973(ST6):1092-187.
- [6] MacGregor J G, Hanson J M.Proposed Changes in Shear Provisions for Reinforced and Prestressed Concrete Beams

[导航/NAVIGATE](#)

[本期目录/Table of Contents](#)

[下一篇/Next Article](#)

[上一篇/Previous Article](#)

[工具/TOOLS](#)

[引用本文的文章/References](#)

[下载 PDF/Download PDF\(1659KB\)](#)

[立即打印本文/Print Now](#)

[推荐给朋友/Recommend](#)

[统计/STATISTICS](#)

[摘要浏览/Viewed](#) 27

[全文下载/Downloads](#) 12

[评论/Comments](#)



[J], ACI,1969, 66(4): 276-88.

[7] Report of ACI-ASCE Committee 326.Shear and Diagonal Tension[J].ACI, 1962, 58(1): 1-10.

备注/Memo: 收稿日期:2007-11-28;改回日期:2008-1-17。

基金项目:河北省自然科学基金资助项目(06213707)

作者简介:戎贤(1965-)男,博士,教授,主要从事结构抗震研究.E-mail:sunyongcheng2002@163.com
