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new chapter on portal  
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Limit state design (LSD)

refers to a structural

engineering design

method. A degree of

loading or other actions

imposed on a structure

can result in a ' limit



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state', where the structure's condition no longer fulfils its design criteria, such as; fitness for use, structural integrity, durability, and so on.

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1 INTRODUCTION  
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AND LIMIT STATE

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both simple and

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Limit state design, also  
known as Load And  
Resistance Factor Design,  
refers to a design method  
used in structural  
engineering. A limit state  
is a condition of a  
structure beyond which it

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no longer fulfills the relevant design criteria. The condition may refer to a degree of loading or other actions on the structure, while the criteria refer to structural integrity, fitness for use, durability or other design requirements. A structure designed by LSD is proportioned to sustain all actions likely

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Initial selection of section  
Moment Capacity of  
section  $M_c = P_y S$   
—— (1). Where  $S$  is the  
plastic modulus of the  
section Which implies  
that  $S = M_c / P_y =$   
 $(363.625 \times 10^6) / 275 =$   
 $1320963.636 \text{ mm}^3 =$   
 $1320.963 \text{ cm}^3$ . With this  
we can go to the steel  
sections table and select a  
section that has a plastic



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modulus that is slightly  
higher than 1320 ....

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