

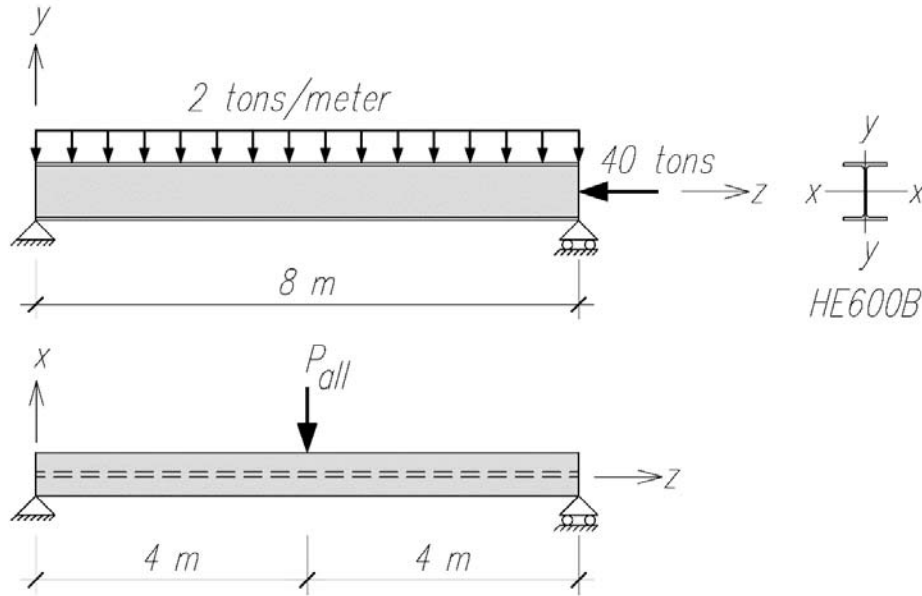
CE388 - FUNDAMENTALS OF STEEL DESIGN

2013-2014 Spring Term

Homework V (Due date: 8 May 2012)

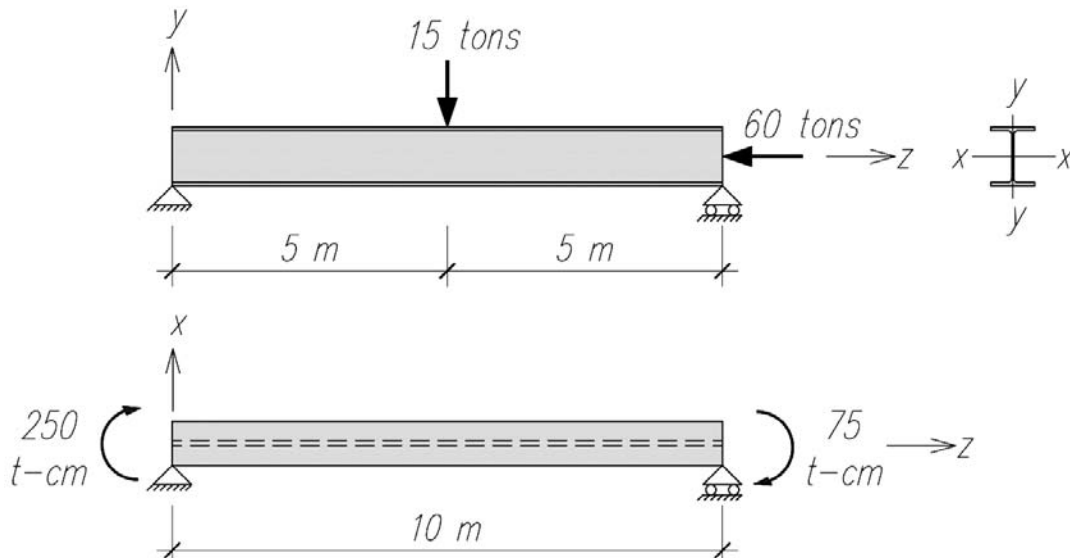
Submit your homeworks to the "CE388 Dropbox" throwing which is located in basement of K2 building until 8 May 2014, 17:00. Fifty percent penalty applies to homeworks submitted from 8 May 2014, 17:00 until 9 May 2014, 17:00. Homeworks submitted thereafter will receive no credit.

1. A simply supported beam is shown below. The beam has lateral supports at the ends only. EY Loading St37 Steel. Determine maximum amount of allowable load (P_{all}) according to TS648 Provisions (50 points)



Note: Neglect self-weight of the beam.

2. Find the lightest I-Section for the loading shown below. The beam has lateral supports at the ends only. EY Loading. ST52 Steel. (50 points)



Note: Neglect self-weight of the beam.