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this paper presents a part of a large research programme on semi-rigid connections between i-section beams and circular hollow sections columns. this part consists of the parametric investigation on multiplanar welded plate to tubular column connections loaded with compression loads. the data as shown in the paper is valid for these type of connections only if butt welds are applied. however, welded with fillet welds, these connections have a larger strength. thus, for these connections with fillet welds the presented data might be conservative. in this paper 15 of these connections are studied loaded with 5 different combinations of compression loading on the in-plane and out-of-plane plates. for the finite element calculations both geometrical and material nonlinearities are taken into account. in a previous paper (de winkel and wardenier, 1994) a general solution has been presented for a ring model for multiplanar x-joints on the basis of togo's ring model (togo, 1967). making use of this solution a regression model has been made for multiplanar load cases. these pages are webpages that are made by students who took the sebs 204/205 or 213/213! sebs analysis and design of structures course offered in the department of civil engineering at tu delft. the course was taught between september 2003 and june 2004. the course was about basic static and strength analysis of structures. equilibrium of particles, rigid bodies, frames, trusses, beams, columns; stress and strain analysis of rods, beams, pressure vessels. e mch 210 e mch 210 statics and strength of materials (5) this course is a combination of e mch 211 and e mch 213. students taking e mch 210 may not take e mch 211 or 213 for credit, or vice versa. students will learn how forces and moments acting on rigid and deformable bodies affect reactions both inside and outside the bodies. students will study the external reactions, and their inter-relationships; the discipline of statics (e mch 211), as well as the associated internal forces and deformations, quantified by their corresponding stresses and strains; the discipline of strength of materials (e mch 213). the student will be able to analyze and design simple structural components based on deflection, strength, or stability. students will be prepared to analyze and design simple structures and take upper division courses in mechanics of materials and structural analysis and design. students will communicate their analysis through the use of free-body diagrams and logically arranged equations.

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i. general objective the purpose of this investigation is to examine the influence of the number of bars and the type of cross section on the longitudinal static compressive strength of two-piece composite girders. specimens were constructed by cutting two sets of beams from a 20' x 20' x 8" composite i-beam. a total of 16 tests were conducted on each beam type. specimens were tested at both ends of the beam to determine the influence of the connection of the formers and the number of bars on the longitudinal static compressive strength. the two beam types were 8/16 and 16/16 bars with an i-beam cross section. the results indicate that there was no significant difference in the longitudinal static compressive strength between the two beam types for a given number of bars. i. general objective the purpose of this investigation is to examine the influence of the type of cross section on the longitudinal static compressive strength of i-beam bars. specimens were constructed by cutting two sets of beams from a 20' x 20' x 8" composite i-beam. a total of 16 tests were conducted on each beam type. specimens were tested at both ends of the beam to determine the influence of the connection of the formers and the type of cross section on the longitudinal static compressive strength. the two beam types were 8/16 bars with an i-beam cross section and 16/16 bars with a square cross section. the results indicate that there was no significant difference in the longitudinal static compressive strength between the two beam types for a given number of bars. 5ec8ef588b

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