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## **Cidect Hollow Section Steel Design**

CIDECT is an international association of leading manufacturers of structural hollow sections and pipes. Main objective is to expand and summarize knowledge, by means of funding research and design guides on structural hollow sections and promote their application in steel construction and

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engineering.

## **CIDECT**

Design Guide 1, 2nd edition This book is the first of a set of works by the CIDECT, dedicated to the calculation of constructions in hollow profiles, - circular and rectangular - in steel, in the field of structural and mechanical engineering.

## **Design Guides - CIDECT**

CIDECT Design Guides In an effort to promote the steel industry by advocating the use of HSS, AISC has partnered with CIDECT (International Committee for the Development and Study of Tubular Structures) to disseminate their published design guides free of charge to AISC members.

## **CIDECT Design Guides | American Institute of Steel ...**

This design guide is the eighth in the series "Construction with Hollow Steel Sections", which CIDECT has published:

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1. Design guide for circular hollow section (CHS) joints under predominantly static loading 2. Structural stability of hollow sections 3.

## **FOR CIRCULAR AND RECTANGULAR - American Institute of Steel ...**

to give the design engineer the information one needs to design hollow section column connections in the most efficient and economic way. Steel structural hollow sections are unique in the world of structural steel sections, because their geometry is such that their mass is distributed away from their longitudinal axis, making them ideal for use as

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CIDECT Much current CIDECT research

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activity is targeted at completing the body of knowledge which surrounds the structural behaviour of steel Structural Hollow Sections, and at interpreting and implementing this fundamental research.

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In a good design, all these aspects have to be considered in a balanced way. Due to the special features of hollow sections and their connections it is even here of more importance than for steel structures of open sections. The designer should therefore be aware of the various aspects of hollow sections, as basically described in this book.

## **CIDECT**

With respect to the design of steel structures and especially as far as steel structures made with hollow sections are concerned, complementary material to available books such as the CIDECT book for students (“Hollow Sections in Structural Applications” by J. Wardenier)

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should be made available.

## **CIDECT**

Product Standards for hollow sections  
Europe International USA; Hot formed/  
hot finished: EN 10210: ISO 12633:  
ASTM A501 ASTM A618: Cold formed: EN  
10219: ISO 10799: ASTM A500 ASTM  
A1085: Design Standards: Loads: EN  
1991 Series (Loads) Steel construction:  
EN 1993-1-1 general rules EN 1993-1-2  
fire loading EN 1993-1-8  
joints/connections EN 1993 ...

## **CIDECT**

ISO 14347, "Fatigue - Design procedure  
for welded hollow-section joints -  
Recommendations", International  
Standards Organization, Geneva,  
Switzerland, 2008. In addition to  
standardization activities, IIW XV-E has,  
since 1984, organized the "International  
Symposium on Tubular Structures"  
(ISTS) at various venues around the  
world on ...

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## **CIDECT**

The mission of CIDECT is to combine the research resources of major hollow section manufacturers in order to create a major force in the research and application of hollow steel sections world wide. This forms the basis of establishing coordinated and consistent international standards.

## **Hollow Sections in Structural Applications**

However, such connections are allowed by the American Institute of Steel Construction (AISC) Specification (AISC 360-16) and are mentioned in CIDECT Design Guide 3 for Rectangular Hollow Section (RHS) Joints under Predominately Static Loading (Packer et al. 2010) and CIDECT Design Guide 9 for Structural Hollow Section Column Connections (Kurobane et al. 2004), but these connections should be well understood before they are selected for use.

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## **Connecting Hollow Structural Section Members with Through ...**

However, due to the growing popularity, increasing range and innovation of hollow section construction, the DCT was effectively split in 1992 with the release of the “Design Capacity Tables for Structural Steel Hollow Sections” (DCTHS) which only considered tubular members.

## **DESIGN CAPACITY TABLES - Liberty**

Under the general series heading “Construction with Hollow Steel Sections”, CIDECT has published the following nine Design Guides, all of which are available in English, French, German and Spanish: Design guide for circular hollow section (CHS) joints under predominantly static loading (1st edition 1991, 2nd edition 2008)

## **CIDECT Design Guides 1 - 9 - Civil Engineering Community**

Author: COMITE INTERNATIONAL POUR LE DEVELOPPEMENT ET LETUDE DE LA



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CONSTRUCTION

TUBULAIRE(CIDECT)|WARDENIER JAAP

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COM Code ID: 3416 Series: Construction with hollow steel sections CIDECT no.1 c

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