## **Access Steel Documents**

Case Study

Luxembourg Chamber of Commerce's Exposed Steel

Case Study

19 Storey Residential Building at Deansgate, Manchester,

UK

Case study Airforge building, Pamiers, France

Case Study Apartments for Social Housing in Rheims, France

Case Study Bilbao Exhibition Centre, Spain Case Study City Gate, Düsseldorf, Germany

Case Study Constantin's Family House, Ploiesti, Romania Case study ELUZ Building in Croissy-Beaubourg, France

Case Study Energy-Efficient House in Finland

Case Study Fire Engineering of "Las Cañas" Shopping Centre, Viana,

Spain

Case Study Fire engineering of Airbus halls, Toulouse, France
Case Study Fire Engineering of Indoor Football Arena, Finland
Case Study Fire Engineering of office building AOB, Luxembourg

Case Study Fire Engineering of Terminal 2F, Charles de Gaulle airport,

Paris

Case Study ING Headquarters, Amsterdam
Case study Isozaki Atea, Bilbao, Spain
Case Study Kista Science Tower, Stockholm

Case Study Köln Arena, Germany

Case Study Le Sequana

Case Study New Air Cargo Hub for DHL at Nottingham East Midlands

Airport, UK

Case study Office building - 7 place d'Iéna, Paris Case Study Office Building, Palestra, London

Case Study Raines Court, London, UK

Case Study Rembrandt Tower, Amsterdam, Netherlands

Case Study Residential Building, Fulham, UK

Case Study Residential Building, SMART House, Rotterdam,

Netherlands

Case study Sheraton hotel, Bilbao, Spain

Case Study Shopping Centre CACTUS, Esch/Alzette, Luxembourg

Case study The Arabianranta Project, Helsinki, Finland

Case study The OpenHouse System, Sweden

Case Study Typical low rise office building in Luxembourg

Client Guide for Single Storey Buildings

Client guide on the key issues for structural fire resistance

Client Guide Value from Steel Construction for Commercial Buildings

Client guide The benefits of steel for residential construction

Code commentary Collection No. 1

Code commentary EN 1994-1-2 §4.3.5 Simple calculation method for

composite columns

Code commentary Tangent modulus for concrete at elevated temperature

Data Buckling factors at elevated temperature

Data Classification of sections at elevated temperature

Data Critical temperatures for the design fire resistance of steel

beams and members in tension

Data Limiting compressive stresses for the design fire

resistance of steel columns

Data

Nominal temperature-time curves

Data

Nomogram for protected members

Nomogram for unprotected members

Data Properties of fire compartment lining materials

Data Reduction factors for mechanical properties of carbon

steel at elevated temperature

Data Section classification tables for European hot rolled beam

profiles (IPE and HE profiles)

Design of composite columns

Example Bolted connection of an angle brace in tension to a gusset

plate

Example Bolted connection of an angle brace in tension to a gusset

plate (GB)

Example Buckling resistance of a pinned column with intermediate

restraints

Example Buckling resistance of a pinned column with intermediate

restraints (GB)

Example Calculation of alpha-cr

Example Calculation of effective section properties for a cold-formed

lipped channel section in bending

Example Calculation of effective section properties for a cold-formed

lipped channel section in compression

Example Choosing a steel sub-grade

Example Column base connection under axial compression
Example Column base connection under axial compression (GB)

Example Column splice - non-bearing splice

Example Composite floor slab

Example Continuous column in a multi-storey building using a UKC

section (GB)

Example Continuous column in a multi-storey building using an H-

section or RHS

Example Design and serviceability limit state check of a cold-formed

steel member in bending

Example Design of a cold-formed steel lipped channel wall stud in

compression

Example Design of a cold-formed steel lipped channel wall stud in

compression and bending

Example Design of a cold-formed steel lipped channel wall stud in

tension

Example Design resistance of a screwed connection of cold-formed

members

Example Determination of loads on a building envelope
Example Elastic analysis of a single bay portal frame
Example Elastic analysis of a single bay portal frame (GB)
Example Elastic design of a single bay portal frame made of

fabricated profiles

Example End plate beam-to-column-flange simple connection
Example End plate beam-to-column-flange simple connection (GB)

Example Fin plate beam-to-column-flange connection

Example Fin plate beam-to-column-flange connection (GB)

Example Fire design of a protected HEB section column exposed to

the parametric fire curve

Example Fire design of a protected HEB section column exposed to

the standard temperature time curve

Example Fire design of a protected unrestrained HEA section beam

exposed to the standard temperature time curve

Fire design of an unprotected beam using graphs Example

Example Fire design of an unprotected IPE section beam exposed

to the standard time temperature curve

Fire design of protected IPE section beam exposed to Example

parametric fire curve

Example Fire design of unprotected HEB section column exposed to

the standard temperature time curve

Fire engineering a composite SHS column Example

Example Fire resistance of a composite slab to EN 1994-1-2 Fire resistance of a partially encased composite column Example Example Fire resistance of a partially encased composite steel

beam

Example Fire resistance of a welded box section Example Parametric fire curve for a fire compartment

Example Pinned column using non slender H-section or RHS Example Pinned column using non slender UKC section (GB)

Portal frame - eaves moment connection Example

Example Simply supported beam with intermediate lateral restraints Example Simply supported beam with intermediate lateral restraints

(GB)

Simply supported beam with lateral restraint at load Example

application point

Simply supported beam with lateral restraint at load Example

application point (GB)

Simply supported IPE profile purlin Example

Simply supported laterally unrestrained beam Example Simply supported laterally unrestrained beam (GB) Example

Example Simply supported primary composite beam Example Simply supported primary composite beam (GB) Example Simply supported secondary composite beam Simply supported secondary composite beam (GB) Example Example

Single span truss and post frame for a low pitch roof using

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Example Sway stability

Truss/post end connection Example Example Truss/post end connection (GB)

Tying and the avoidance of disproportionate collapse Example

Example Unrestrained beam with end moments Unrestrained beam with end moments (GB) Example Flow chart Design of a column base under axial load

Flow chart Buckling verification of non-uniform members in portal

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Flow chart Calculation of effective section properties for cold-formed

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Flow chart Design and serviceability limit state check of a cold-formed

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Flow Chart Design model for non-bearing column splices

Flow chart Design model for welded joints in trusses using structural

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Flow chart Design of a cold-formed steel member in compression Design of a cold-formed steel wall stud in combined

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Flow chart Design of a non-composite beam under uniform loading -

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Flow chart Design of a simply supported composite beam - Common

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Flow chart Design of a wind transverse girder

Flow chart Design of chord splice in structural hollow sections

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Flow chart Design resistance of screwed connections of cold-formed

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Flow chart Element (rafter or column) design in presence of plastic

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Flow chart Element elastic design, uniform sections (rafter or column)

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Flow Chart Evaluation of wind loads (single-storey buildings)

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Flow chart Fire resistance of a column in combined axial compression

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Flow chart Fire resistance of a composite slab

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Flow Chart Simple method for the design of no-sway braced frames Flow chart Simplified model for thermal actions in a localised fire Flow chart Simplified model for thermal actions in compartment fire

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Flow chart Steel temperature development for unprotected steel

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Flow chart Thermal actions for temperature analysis

Flowchart Vertical bracing design

Flowchart Design of a simply supported composite beam - Details NCCI Vertical and horizontal deflection limits for multi-storey

buildings

NCCI "Simple Construction" - concept and typical frame

arrangements

NCCI Bearing column splices

NCCI Buckling lengths of columns rigorous approach

NCCI Calculation of alpha-cr

NCCI Column base stiffness for global analysis

NCCI Column splices not requiring full continuity of stiffness NCCI Critical axial load for torsional and flexural torsional

buckling modes

NCCI Design model for non-bearing column splices

NCCI Design model for simple column bases- axially loaded I

section columns

NCCI Design model for welded joints in trusses using structural

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NCCI Design models for splices in structural hollow sections
NCCI Design of a notched section at the end of a beam

NCCI Design of fixed column base joints

NCCI Design of out of plane and transverse restraint systems for

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NCCI Design of portal frame apex connections
NCCI Design of portal frame eaves connections

NCCI Design of roof trusses

NCCI Design of simple column bases with shear nibs

NCCI Design rules for web openings in beams

NCCI Determination of moments on columns in simple

construction

NCCI Determination of non-dimensional slenderness of I and H

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NCCI Effective lengths and destabilizing load parameters for

beams and cantilevers - common cases

NCCI Effective lengths of columns and truss elements in truss

portal frame construction

NCCI Elastic critical moment for lateral torsional buckling NCCI Elastic critical moment for lateral torsional buckling

NCCI Elastic critical moment of cantilevers

NCCI Fire resistance design of composite slabs (GB)

NCCI General method for out-of-plane buckling in portal frames

NCCI Initial Design of Composite Beams
NCCI Initial Design of Composite Beams (GB)
NCCI Initial Design of non Composite Beams
NCCI Initial Design of non Composite Beams (GB)

NCCI Initial sizing of fin plate connections.

NCCI	Initial sizing of non-bearing column splices
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	interaction criterion (GB)
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Scheme Development	Composite beams and columns exposed to fire
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Scheme Development	Overview of the sustainability of steel-framed, multi-storey
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•	storey buildings
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Vertical structure for multi-storey buildings for commercial

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Scheme development Walls in light steel in residential structures

Scheme Development Web openings for services in beams in multi-storey

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