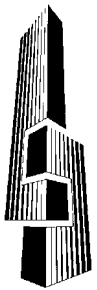
EUROPEAN STEEL DESIGN AWARDS

2015



ECCS EUROPEAN CONVENTION FOR CONSTRUCTIONAL STEELWORK
CECM CONVENTION EUROPÉENNE DE LA CONSTRUCTION MÉTALLIQUE
EKS EUROPÄISCHE KONVENTION FÜR STAHLBAU

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ECCS/CECM/EKS General Secretariat
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B-1200 Brussels, Belgium

On behalf of ECCS/CECM/EKS, published by Turkish Constructional Steelwork Association (TUCSA)
Altunizade Mah. Bayramağa Sok., Aksu Apt. No.14 D:4
34662 Üsküdar, İstanbul, Turkey
E-mail: tucsa@tucsa.org
www.tucsa.org

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European Convention for Constructional Steelwork (ECCS) gives European Steel Design Awards in odd years since 1997 in order to encourage the creative and outstanding use of steel in architecture and construction. Outstanding design in steel construction emphasizes the many advantages of steel in construction, production, architecture and sustainability on economy, social and environmental fields.

ECCS has modified the evaluation procedure this year to award the best three projects with Award of Excellence, and other selected ten projects with Awards of Merit, and 13 ECCS Full Members nominated one project from each country. This brochure highlights each of the winning projects evaluated by National and International Juries at three phases accordingly. Whatever the size, origin of classification, the winning structures are something to take pride in and should all be acknowledged for their contribution to the ever growing accolade of 'design and build in steel'.

At the first step of evaluations, each National Jury has selected the best entry for its country to nominate to the European Steel Design Awards, in accordance to the criteria declared by ECCS.

At the second phase, ECCS Awards and Architecture Advisory Committee only approved the entries by their accordance to the ECCS Steel Design Awards Procedure. All 13 entries have been approved. As the submitted projects indicate, steel offers new solutions and opportunities, allowing architects and engineers to stretch their imagination and actually create some of the challenging structures. Structural steel is low cost, strong, durable, and offers design flexibility, adaptability, recyclability and sustainability making it the material of choice in building construction.

At the final phase, ECCS International Jury which was established first time, met in Istanbul on the 9th of June 2015, with the participation of Prof. Dr. Harun BATIRBAYGIL, (Architect - Turkey), Kari Nissen BRODTKORB (Architect - Norway), Véronique DEHAN (Secretary General of ECCS), Architect Lasse KILVAER (Chairman of Awards and Architecture Committee), Prof. Dr. Nuran PILEHVARIAN (Architect - Turkey), Prof. Dr. Nesrin YARDIMCI (President of ECCS). The ECCS International Jury evaluated the approved entries, according to the criteria mentioned above, and selected three projects to be awarded by the **European Steel Design Award of Excellence 2015**. The other ten selected projects would be awarded with the **European Steel Design Award of Merit 2015** during the Steel Design Award Ceremony to be held in Istanbul on 15th September 2015.

The Steel Design Award Ceremony is the highlight of the 60th Anniversary of ECCS. The projects are a celebration of steel in architecture designed by some of the world's leading practitioners and constructed by steelwork contractors who are able to show steel in its many functional forms. We are pleased to invite you to celebrate these projects saluting the works of the National and International Juries whose task was not always an easy one and to congratulate all the winners very warmly thanking them for the superb team work which has been achieved by all.

Prof. Dr. Nesrin YARDIMCI
President of ECCS

Erny HENDRICKX
Chairman of ECCS Executive Board

MEMBERS OF 2015 INTERNATIONAL JURY

Nesrin YARDIMCI	President of ECCS
Veronique DEHAN	Secretary General of ECCS
Lasse KILVAER	Chairman of Awards and Architecture Committee
Harun BATIRBAYGIL	Architect from Hosting Nation
Nuran Kara Pilehvarian	Architect from Hosting Nation
Kari Nissen Brodtkorb	Architect, International Representative

EUROPEAN STEEL DESIGN AWARDS 2015 JURY CITATION

9 June 2015 - Istanbul, Turkey

International Jury Meeting for Europe Steel Design Awards organised by ECCS met on the 9th of June, 2015 in Istanbul to evaluate the 13 entries submitted by NAMs, with the participation of the six members listed below except for Prof. Dr. Paulo J. S. Cruz. Paulo J. S. Cruz could not take part in the Jury Meeting due to other commitments.

Jury Reporter is Berna AYDÖNER.

H. Yener GÜR'EŞ, PMB Chairman, participated in the meeting as observer.

1. List of Entries Evaluated.

1. AUSTRIA- Central Railway Station - Diamond-shaped Roof, Vienna, Austria
2. CZECH REPUBLIC- Troja Bridge in Prague
3. DENMARK - Odense Foot and Cycle Bridge Odense, Denmark
4. FRANCE -The Canopy La Canopee Des Halles, Paris France
5. GERMANY - Sundsvall Bridge, Sweden
6. HUNGARY - Renewal of Szolnok Railway Bridge Szolnok, Hungary, over Tisza river
7. ITALY - Aquae Exposition Pavilion, Mestre (Italy), Venice Waterfront Project, Porto Marghera Venice, Italy
8. LUXEMBOURG - Office Building KPMG, Luxembourg
9. NETHERLANDS - Rotterdam Central Station Stationsplein 1, Rotterdam, Netherlands
10. NORWAY - DNB House A Oslo, Norway
11. PORTUGAL - Arena Amaz Manaus, Estado do Amazonas, Brazil
12. SWEDEN - Aula Medica: Solna, Stockholm
13. TURKEY – Kayalar Kimya Administration and R&D Building Tuzla Istanbul, Turkey

2. Evaluation Criteria

- To have an international recognised standard,
- To be of outstanding quality in its architecture, structure and construction,
- To interest clients, architects and engineers in using more steel within the entire building sector, thereby making the steel industry competitive,
- To emphasise the advantages of steel in construction, production, economy and architecture,
- To adhere to the principles of sustainability,
- To disseminate the knowledge of steel and its many-sides uses and to draw attention to its development,
- To improve the image of steel.

3. Evaluation Procedure

Jury members have judged 13 entries listed under the paragraph 2 above evaluated according to the criteria given at paragraph 3 above. Evaluation was achieved in two rounds. At the first round, drawings, photographs and project definitions of each entry was evaluated one by one. At the second round, each Jury member explained his/her preferences on projects to nominate for the Award of Excellence. All Jury members unanimously agreed to select three projects to be awarded with **European Steel Design Award of Excellence 2015** in three categories.

4. Awards

4.1. **Awards of Excellence**. Jury decided to award the following projects with Awards of Excellence with the stated rationales

CZECH REPUBLIC - Troja Bridge, Prague, Czech Republic
(Award of Excellence, Bridge category)
Jury Citations

Prague's Troja Bridge is an impressive achievement that blurs the boundary between architecture and engineering. The arch bridge hangs from a dense network of staves, a known basic concept, excellently executed in design and detail. The structure shows steel's versatility in the truss-bearing arch, combined with the spin-web type hangers in four planes, which enables the low hanging, slim arch. The beautiful design is developed to suit the construction process, and it carries the heavy loads of tramways, cars, and pedestrians in the heart of Prague. The bridge promotes the qualities of steel by its visible slender structure and elegance. The effectual lighting accentuates the expressive form. The jury was especially pleased with the integration of expressive design and modern industrial artisanship. Troja Bridge is like a sculpture, and a beautiful addition to the city of Prague.

FRANCE - The Canopy, Paris, France
(Award of Excellence, Commercial category)
Jury Citations

The Canopy in Paris is an impressive example of new design and the reuse of existing structures. The area of Des Halles, which had fallen to disrepair and become a dead area in the middle of the city, has been resurrected by stripping the old buildings and uniting them with a brand new double curved, drooping roofing structure. The ground level is also opened up and stabilized by massive steel trusses. The move is economically and ecologically sustainable, in the in-situ reuse of load bearing steel structures, and socially sustainable, upgrading neighborhood. The jury found the structure interesting and innovative, and the concept interesting. The precise, exposed structure works as an instrument of learning about steel construction. A special study into fire engineering was made to prevent the chance of collapse. The design is both classical and modern, with a nice game of transparency, and the elegant forms suits the city of Paris perfectly.

PORTUGAL - Arena Amazon, Manaus, Brazil
(Award of Excellence, Public and Cultural category
Jury Citations

The Arena Amazon in Manaus, Brazil, is a distinctive and recognizable design. The Arena was built for the 2014 World Cup and accommodates 44 500 people. The structure combines the façade and roof in a gesture that recalls the design of an Amazonian basket. Although deep in the Brazilian Amazon, the Arena has a strong European connection. Two German companies developed the project, and the steelwork contractor is

Portuguese Martifer. The diagonally arranged, cantilevering steel box girders, creates a pattern of immediate recognition. It is obvious that the structure is an answer to, and thus supports and strengthen, the architectural idea. The form and construction is self-supporting and stable after the short erection stage. The Incorporated secondary steel structure carries a translucent membrane cladding. The load bearing steel lattice structure is expressed beautifully and accentuated by the night-time illumination of the membranes, creating a certain atmosphere. The Arena Amazon is a perfect example of the malleability and cantilevering abilities of steel, and a local monument.

4.2. **Awards of Merit**. According to the ECCS Awards Procedure, the following projects are to be awarded with Awards of Merit:

AUSTRIA - Central Railway Station - Diamond-shaped Roof, Vienna, Austria
DENMARK - Odense Foot and Cycle Bridge Odense, Denmark
GERMANY - Sundsvall Bridge, Sweden
HUNGARY- Renewal of Szolnok Railway Bridge Szolnok, Hungary, over Tisza River
ITALY - Aquae Exposition Pavilion, Mestre (Italy), Venice Waterfront Project, Porto Marghera Venice, Italy
LUXEMBOURG - Office Building KPMG, Luxembourg
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NORWAY - DNB House A Oslo, Norway
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TURKEY - Kayalar Kimya Administration and R&D Building Tuzla Istanbul, Turkey

International Jury Members

Harun Batirbaygil Kari Nissen Brodtkorb Veronique Dehan Lasse Kilvaer Nuran Pilehvarian Nesrin Yardimci

AWARD OF EXCELLENCE WINNERS

CZECH REPUBLIC	Troja Bridge, Prague, Czech Republic
FRANCE	The Canopy, La Canopée des Halles, Paris
PORTUGAL	Arena Amazonia, Manaus, Brazil

CZECH REPUBLIC

Troja Bridge, Prague

Owner	The City of Prague (CZ)
Architects	Roman Koucky Architektonicka Kancelar s.r.o. (CZ)
Engineers	EXCON a.s (CZ)
Steelwork	Metrostav a.s.(CZ)
Completion Date	06.10.2014
Total Tonnage	3.020 Tons

The new Troja Bridge, with the main span 200,4m across the river Vltava in Prague, in the Czech Republic, is serving for tramway, car and pedestrian/bicycle traffic. The bridge is a part of the Prague urban area thus its architectural face, which is very attractive, is essential in comparison to highway bridges outside the city.

The main load bearing structure is simply supported steel bowstring-arch with two networks of inclined hangers.

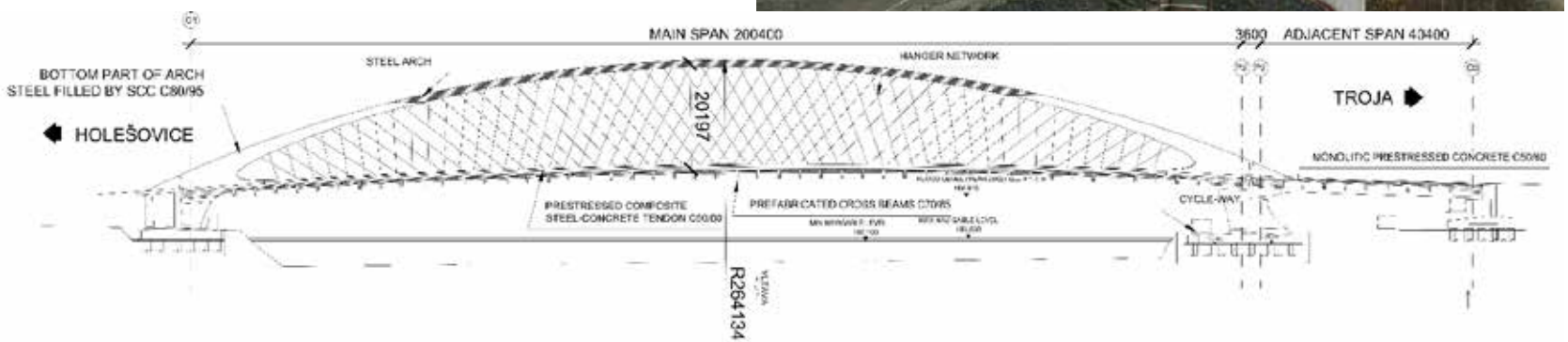
The arch is extremely flat (rise over span is 1/10) with very flat pentagonal cross-section. Extremely low rise of the arch was achieved thanks to four dense networks of hangers. The width of the arch section in the midspan is approx. 7m. The width of the concrete deck, including steel walkways, is 35m.

Steel material used for the arch is S420ML and S355ML. Hangers are Macalloy 520 system bars with diameters 72 - 102mm.

The night lighting even underlines the bridge uniqueness within the Prague historical architectural context whereas the bridge as itself doesn't tend to overgrow the surroundings to expose itself as a solitaire monument.

CZECH REPUBLIC - Troja Bridge, Prague, Czech Republic
(Award of Excellence, Bridge category)
Jury Citations

Prague's Troja Bridge is an impressive achievement that blurs the boundary between architecture and engineering. The arch bridge hangs from a dense network of staves, a known basic concept, excellently executed in design and detail. The structure shows steel's versatility in the truss-bearing arch, combined with the spin-web type hangers in four planes, which enables the low hanging, slim arch. The beautiful design is developed to suit the construction process, and it carries the heavy loads of tramways, cars, and pedestrians in the heart of Prague. The bridge promotes the qualities of steel by its visible slender structure and elegance. The effectual lighting accentuates the expressive form. The jury was especially pleased with the integration of expressive design and modern industrial artisanship. Troja Bridge is like a sculpture, and a beautiful addition to the city of Prague.


MAIN SPAN 200400
3600
ADJACENT SPAN 40400
BOTTOM PART OF ARCH
STEEL FILLED BY SCC C80/95
STEEL ARCH
HANGER NETWORK
HOLEŠOVICE
TROJA
20197
NONOLITIC PRESTRESSED CONCRETE C50/60
PREFABRICATED CROSS BEAMS C70/85
PRESTRESSED COMPOSITE
STEEL-CONCRETE TENDON C50/60
CYCLE-WAY
R264134

FRANCE

The Canopy, La Canopée des Halles, Paris

Owner	SEMPARISEINE (F)
Architects	Patrick Berger et Jacques Anziutti (F)
Engineers	INGEROP (F)
Contractor	Vinci Construction (F)
Steelwork	Castel et Fromaget (F)
Completion Date	30.12.2014
Total Tonnage	7.000 Tons

The Halls de Paris‘s redevelopment project mainly involves the rebuilding of all the structures located above and around the patio of the Forum des Halles, all over the Châtelet-les-Halles metro station, 4 levels lower.

The whole steel framework of the project is divided in 3 main structures: the gateways, delimiting the northern and southern sides of the patio, the buildings and the crossing work, covering the patio: The Canopy.

The construction and restructuring of the Canopy’s project weighs 7200 tons. It’s elaborated in aluminium frame & based on steel structure.

The Canopy’s des Halles is now an inviting new public garden, a larger pedestrian district, a new building inspired by nature (The Canopy is the upper layer of forest, in direct contact with the air and sunlight), a greater number of easier-to-use pathways and roads, a more functional metro station, a refurbished shopping centre and various cultural centres.

FRANCE - The Canopy, Paris, France
(Award of Excellence, Commercial category)
Jury Citations

The Canopy in Paris is an impressive example of new design and the reuse of existing structures. The area of Des Halles, which had fallen to disrepair and become a dead area in the middle of the city, has been resurrected by stripping the old buildings and uniting them with a brand new double curved, drooping roofing structure. The ground level is also opened up and stabilized by massive steel trusses. The move is economically and ecologically sustainable, in the in-situ reuse of load bearing steel structures, and socially sustainable, in the upgrade of the neighborhood. The jury found the structure interesting and innovative, and the concept interesting. The precise, exposed structure works as instrument of learning about steel construction. A special study into fire engineering was made to prevent the chance of collapse. The design is both classical and modern, with a nice game of transparency, and the elegant forms suits the city of Paris perfectly.

PORTUGAL

Arena Amazonia, Manaus, Brazil

Owner	Governo do Estado do Amazonas
Architects	GMP Design e Projectos do Brasil Ltda
Engineers	Schlaich Bergermann und Partner (D)
Contractor	Andrade Gutierrez
Steelwork	Martifer Construções Metálicas, Lda
Completion Date	30.01.2014
Total Tonnage	7.220 Tons

This Stadium was developed for the 2014 World Cup, in Brazil, and has the capacity for about 44500 spectators. Its conception is very modern and daring, with the steel structure totally involving the seats, creating a specific and unique visual identity, integrating facade and roof and forming a harmonic assembly that looks like a typical Amazonian straw basket. In a spatial and aesthetic level, this resemblance introduces extra value to the functional component which the project intends to respond to.

To cover the spectator areas, a steel roof structure was developed. This consists of a diagonally arranged, cantilevering steel box girders, incorporated with a secondary steel structure carrying the membrane cladding. The selection of this structural system, especially the diagonal arrangement of roof girders, was made to visualize the architectural concept and to generate a distinctive characteristic structural design. The steel structure in X, with the spaces filled in with the membranes in PTFE, simultaneously create the perception of a restricted and robust atmosphere and at the same time seem to challenge the gravity forces.

The formalization achieved, with an unusual aesthetic beauty, was only possible due to the potential that steel structures have in obtaining huge spans without any extra support and giving slenderness to the structure.

PORTUGAL - Arena Amazon, Manaus, Brazil
(Award of Excellence, Public and Cultural category
Jury Citations

The Arena Amazon in Manaus, Brazil, is a distinctive and recognizable design. The Arena was built for the 2014 World Cup and accommodates 44.500 people. The structure combines the façade and roof in a gesture that recalls the design of an Amazonian basket. Although deep in the Brazilian Amazon, the Arena has a strong European connection. Two German companies developed the project, and the steelwork contractor is Portuguese Martifer. The diagonally arranged, cantilevering steel box girders, creates a pattern of immediate recognition. It is obvious that the structure is an answer to, and thus supports and strengthen, the architectural idea. The form and construction is self-supporting and stable after the short erection stage. The Incorporated secondary steel structure carries a translucent membrane cladding. The load bearing steel lattice structure is expressed beautifully and accentuated by the night-time illumination of the membranes, creating a certain atmosphere. The Arena Amazon is a perfect example of the malleability and cantilevering abilities of steel, and a local monument.

AWARD OF MERIT WINNERS

AUSTRIA	Central Railway Station - Diamond-shaped Roof, Vienna, Austria
DENMARK	Odense Foot and Cycle Bridge Odense, Denmark
GERMANY	Sundsvall Bridge, Sweden
HUNGARY	Renewal of Szolnok Railway Bridge Szolnok, Hungary, over Tisza river
ITALY	Aquae Exposition Pavilion, Mestre (Italy), Venice Waterfront Project, Porto Marghera Venice, Italy
LUXEMBOURG	Office Building KPMG, Luxembourg
NETHERLANDS	Rotterdam Central Station Stationsplein 1, Rotterdam, Netherlands
NORWAY	DNB House A Oslo, Norway
SWEDEN	Aula Medica: Solna, Stockholm
TURKEY	Kayalar Kimya Administration and R&D Building Tuzla Istanbul, Turkey

AUSTRIA

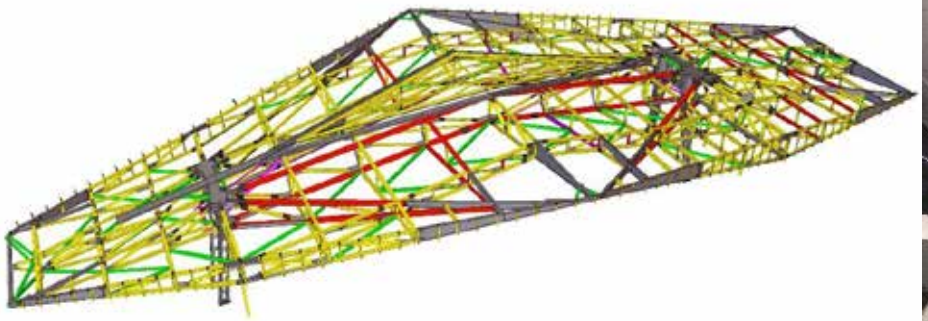
Central Railway Station - Diamond Shaped Roof, Vienna

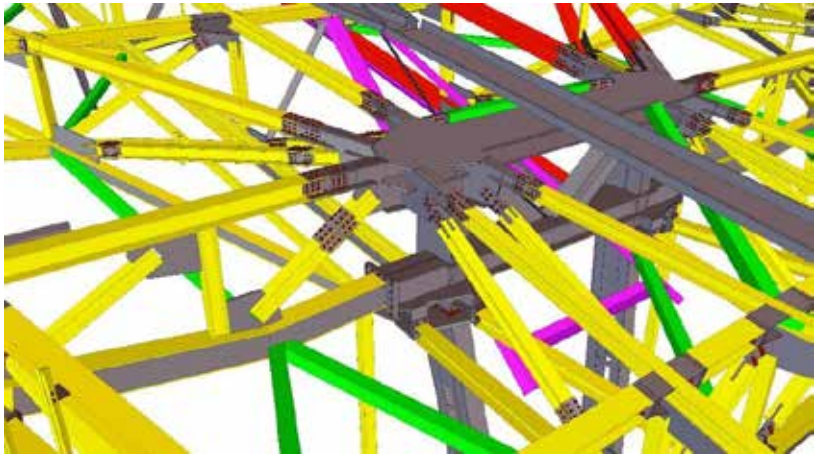
Owner	ÖBB Infrastruktur AG, Vienna (A)
Architects	ARGE (A)
Engineers	ARGE (A)
Steelwork	Unger Stahlbau Ges.m.b.H. (A)
Completion Date	03.03.2014
Total Tonnage	7.000 Tons

The 37,000 m^2 diamond-shaped roof thus plays a significant role in delivering the first stunning impression of Vienna for visitors arriving by train. Unger is responsible for the complete spectacular roof construction of steel: steel and metal work, as well as the detailed structural calculation, glass and detail works.

A folded diamond-shaped roof hovers above the platform. 14 distinctive diamond frameworks comprising a total surface area of 22,500 m^2. Adjoining the diamond-shaped roof are five individual platform roofs with a total surface area of 12,870 m^2. The piazza roof welcomes visitors entering the station from the road with a total surface area of nearly 1,600 m^2.

Each diamond roof is individual and different in its geometry due to the curve of the ground plan. This means that each diamond is a challenge in itself and unique



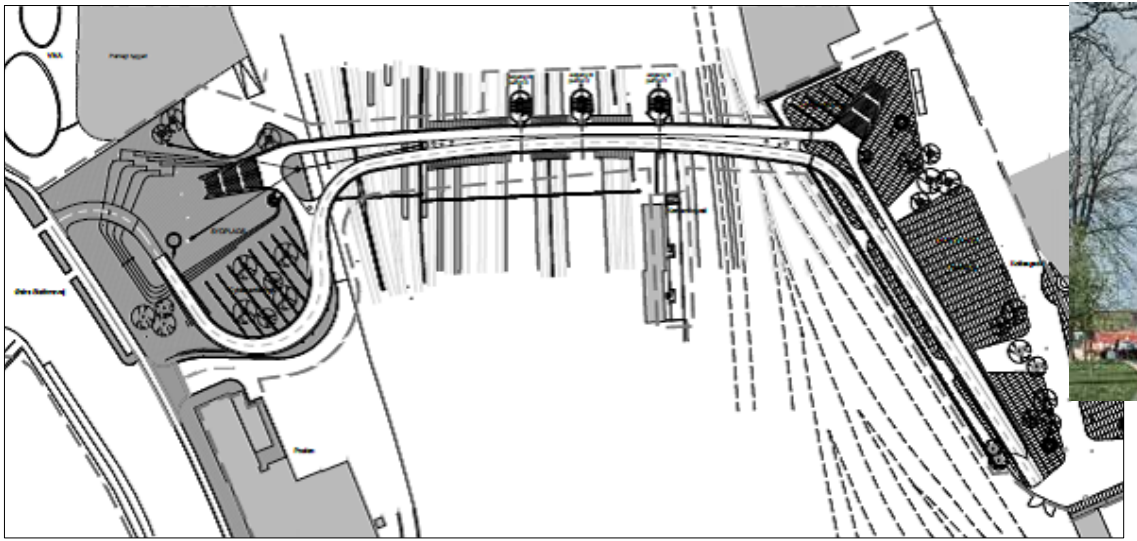


DENMARK

Odense Foot and Cycle Bridge, Odense

Owner	Odense Municipality (DK)
Architects	Gottlieb Paludan Architects (DK)
Engineers	Niras, ES Consult (DK)
Steelwork	Bladt Industries (DK)
Completion Date	29.05.2015
Total Tonnage	435 Tons

Odense Foot and Cycle Bridge strives to give shape to Odense Municipality's vision of a transport link for cyclists and pedestrians across the railway, establishing a connection between the central city and new urban developments by the harbour.
The functional requirements and the challenging conditions that prevail in connection with construction projects across railway lines together with the striking bridge design have made it obvious — if not inevitable — to build the 130m long bridge in steel.
The construction-related challenges have been turned into advantages: outside the track areas, stairs and ramps are produced from in-situ concrete, while the spans above the tracks are made from slender steel box girders. The longest free span is supported by a 40-metre steel pylon which has become a landmark not only for the bridge but for Odense, Denmark’s third-largest city.



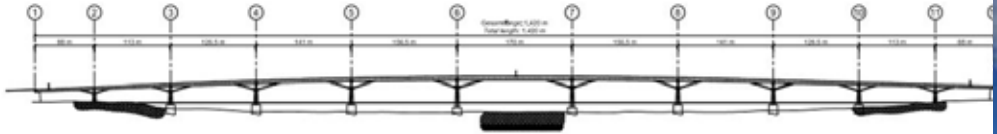
GERMANY

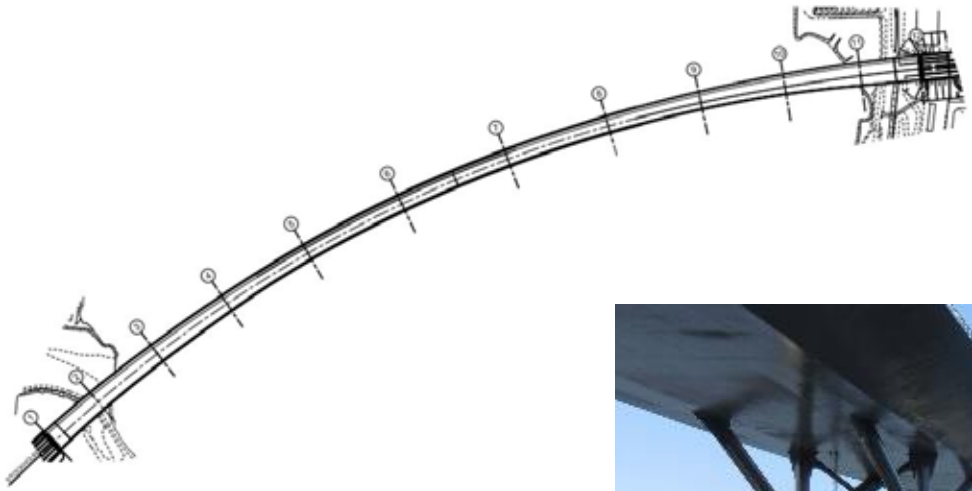
Sundsvall E4 Bridge, Sundsvall, Sweden

Owner	Trafikverket (SE)
Architects	Rundquist Arkitekter AB (SE)
Engineers	Max Bögl Stahl- und Anlagenbau GmbH & Co. KG (DE), ISC Consulting Engineers A/S (DK)
Contractor	Max Bögl Stahl- und Anlagenbau GmbH & Co. KG (DE)
Steelwork	Max Bögl Stahl –und Anlagenbau GmbH &Co. KG (DE), Strabag Wasserbau GmbH (DE)
Completion Date	2013
Total Tonnage	23.000 Tons

The new highway bridge gently curves across the bay along Sweden‘s eastern coast at the port town of Sundsvall, roughly 400 km north of Stockholm. It belongs to the expansion project of the European route E3 and closes a gap between Stockholm and the border to Finland.

Besides the stunning architecture, the construction of the 23,000 ton steel bridge has set new international standards. Starting with a semi-automatic steel production line in Southern Germany, the prefabricated steel components made their way through Europe. After a further line production in Poland, finalized bridge sections with length of up to 160 meters and single component weights of up to 2,500 tons were transported across the Baltic Sea to their final destination in Sweden. The award winning innovative fabrication, erection and logistic concept of the Sundsvall Bridge is a milestone of the European engineering.





HUNGARY

Renewal of Szolnok Railway Bridge, Tisza River, Szolnok

Owner	NIF ZRt. (H)
Architects	FA'mterv ZRt. (H)
Engineers	ECO-TEC Műszaki-Gazdasági Tanácsadó Kft. (Utiber Kft, Oviber Kft.) (H)
Contractor	Tisza 2013 Consortium (Közgép Zrt., Swietelsky Vasúttechnika Kft., Strabag Vasútépítő Kft.)
Steelwork	Közgép Zrt. (H)
Completion Date	08.01.2015
Total Tonnage	2.200 Tons (Old bridge) 2.600 Tons (New bridge)

The Szolnok-Szajol interstation section is one of most frequented railway line sections in Hungary and also a part of the Pan-European transport corridor IV. The 'old' Tisza bridge in Szolnok, that was one of the largest double track railway bridges of Hungary, has now been replaced with two newly built bridges with single track riverbed structure. Due to heavy traffic, merely 7 days were available for total track closure.

Using a unique technology in railway development, 3200 tons of steel structure had been moved over 46 hours: first the old bridge was pushed out onto yokes, then one of the new bridges, the north/left river bridge structure was pushed in. By the end of the week, this new track was opened to traffic. Replacing a railway bridge within such a short time and with a technology of this kind has been unparalleled so far.

ITALY

Aquae Exposition Pavillion, Mestre Italy

Owner	Finanziaria Int. Investments Società di Gestione del Rispiarmo S.p.A
Architects	Architetto Michele De Lucchi Srl (I)
Engineers	F&M Ingegneria SpA (I)
Steelwork	OMBA Impianti & Engineering S.p.A. (I)
Completion Date	03.05.2015
Total Tonnage	1.200 Tons

The multipurpose AQUAE EXPOSITION PAVILION covers an area 14,000 m² with a roof supported by 12 pillars arranged on a 32x32m mesh.The building undisputed star is the steel: both in the interior part, characterized by imposing columns and the elegant truss roofing.The metallic carpentry was pre-assembled in the factory and completed on site.In less than one year, the entire work has been conceived, designed and built. The roof structure of the Aquae Exhibition Pavilion is a fine example of how to achieve interesting architectural results in the distribution of the internal spaces of multipurpose buildings, by fully exploiting the essential design potential offered by industrial steel construction systems.The simplicity of the structural design and careful repetition of the industrial steel elements enhance the potential of the standardised steel construction systems in building, production, economical and architectural terms by comparison with other, equally widespread materials


OMBA


Condotte

LUXEMBOURG

Office Building KPMG, Kirchberg, Luxembourg

Owner	Office Building KPMG (L)
Architects	Valentiny Architects (L)
Engineers	InCA Ingénieurs Conseils Associés SARL (L) Jean Schmit Engineering (L)
Steelwork	Victor Buyck Steel Construction NV (B)
Completion Date	01.12.2014
Total Tonnage	540 Tons (Weathering Steel)

The urban design of this project is based on the "isle planning" principle that largely defines the constructive mode of Kirchberg, but also on the impression that motorists and pedestrians moving around the buildings are getting. This building is clearly distinguished by the composition of its facade. The first skin is composed by a steel curtain wall formed with prefabricated X-shaped elements in "weathering steel".

The second skin is a curtain wall composed of chassis and spandrel gold anodized aluminium, with 50 cm distance to the outer weathering steel wall.

The air handling the office units is operated on a DEC (Desiccant Evaporative Cooling) which is a system of dehumidification and air cooling using water and district heating for air treatment without taking course to a refrigerating machine. A photovoltaic system on the roof produces an average of 28,500 kWh / renewable energy. The building was awarded "Very Good" by the BREEAM certification.

NETHERLANDS

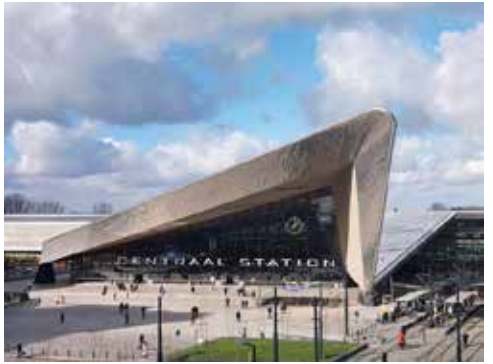
New Rotterdam Central Station, Rotterdam

Owner	City Rotterdam
Architects	Benthel Crouwel Architekten (NL)
Engineers	ARCADIS (NL)
Contractor	Ballast Nedam (NL)
Steelwork	Iemants N.V. (B)
Completion Date	01.07.2014
Total Tonnage	1.600 Tons (Platform roof) 3.500 Tons (Stationhal)

The Rotterdam Central Station project was characterised by its complexity, the environment in which it had to be built and the number of parties involved in its realisation.

The main structural support for the station concourse is hidden behind the roof and ceiling finishes. The concourse is not visibly supported aside from the two main supports on the south side. The main structure supporting the roof is made up of a system of unbraced longitudinal steel trusses. The columns supporting these are Y-shaped and a special detail at the bottom of the columns at the staircases is that the column bases are also Y-shaped to span the stairs, but at 90 degrees to those above.

There were numerous special construction aspects, such as a higher than normal wind loading, sliding bearings, a second load path, as well as temporary auxiliary structures during construction and reducing inconvenience.


CENTRAAL STATION

NORWAY

DNB HOUSE A, Oslo, Norway

Owner	Oslo S Utvikling
Architects	MVRDV with DARK
Engineers	Finnmap & Multiconsult
Steelwork	RUUKKI Construction
Completion Date	06.11.2014
Total Tonnage	1.600 Tons

With its 37 000 m^2 and 17 floors, DNB A building is a "big brother" in the Barcode row and also represent the center of a larger building complex of architectural firm MVRDV . The building is a modern office building with unique qualities made possible partly through an advanced steel construction. The seemingly massive brick building stands out on closer inspection as playful and open.

The steel construction allows intrepid cantilevering, "floating bricks ", while providing spatial flexibility and a variety of architectural options. This, both in terms of variety of internal organization, generous communal terraces in all floors and wonderful light and views. Use of materials and detailing are of consistently high quality.

SWEDEN

Aula Medica, Solna, Stockholm Sweden

Owner	Akademiska Hus (S)
Architects	Wingardh arkitektkontor (S)
Engineers	COWI (S)
Steelwork	Normek (S)
Completion Date	01.10.2013

Aula Medica would have been impossible without steel. A building with one of the largest auditoriums in Sweden, the steel construction enables a great spatial experience without any disturbing columns and without apparent structure. The corner that extends out over Solnavägen creates, with help from the steel, the necessary space that the location itself could not offer. This corner is an innovative and unexpected solution that challenges the laws of gravity and gives the building tension and nerve. Structure and form come together, just as the interplay between the materials steel, glass and wood. Aula Medica is using steel in an innovative way to push the limits of what is possible. Aula Medica is a candidate for the perfect balance between functionality, economy, beauty and technology.

TURKEY

Kayalar Kimya Administration and R&D Building,
Tuzla Istanbul, Turkey

Owner	Kayalar Kimya Industry and Trade Co.Inc.
Architects	UMO Architecture Engineering Contracting and Consulting Co.
Engineers	Celik Yapi Design Fabrication Erection Industry & Trade Co.Inc.
Contractor	Celik Yapi Design Fab. Erection Ind.& Tr.Co.Inc.
Steelwork	TABOSAN Engineering Fabrication Erection Co.Inc.
Completion Date	01.06.2014
Total Tonnage	430 Tons

The building was set by taking account of the plant layout and environment so that the R&D Center and the canteen positioned near to production buildings, while the offices positioned to a garden in front with a form of curved and sloped down façade.

The total area of the building is 5.211 m^2. The building includes an office part with an area of 2.750 m^2, R&D part with an area of 2.196 m^2 and canteen with an area of 265 m^2.

Throughout design of the building, earthquake, functionality, sustainability and fire engineering were primarily considered as well as aesthetics. The most advantageous solution was to use steel in the structure due to the design criteria.

Structure of the building consists of a concrete basement and multi-storey steel superstructure with composite slab for the office and R&D laboratory while a single storey steel structure was used for the canteen. All steel structural elements were prefabricated in the factory and assembled at the site by using bolts.

STEEL DESIGN STUDENTS AWARDS 2015 WINNERS

GERMANY	Turmtänzer [Climbing at the Harbour of Münster] Münster, Germany
ITALY	Una nuova passerella ciclo-pedonale sui Lungarni pisani: dalla storia al progetto (A new cycle track and footpath along the banks of the Arno in Pisa: from history to design) Pisa, Italy
NETHERLANDS	High Strength steel, a slimming product? Research Project, The Netherlands
NORWAY	Through the Forest of Columns, Bergen, Norway
TURKEY	Modular Disaster Dwells, Erciş, Van, Turkey

STEEL DESIGN STUDENTS AWARDS 2015 WINNERS

STEEL DESIGN STUDENTS AWARDS 2015

The Student Awards for Steel Design are a subcategory of European Steel Design Awards. The objective is to give European recognition to outstanding student projects in architectural design using structural steel as a prominent architectural feature. The rules are similar to the Steel Design Awards. Within the context of Steel Design Students Awards 2015, five student projects selected and nominated by their ECCS National Association Members (NAMs) will be presented to international audiences during the European Steel Design Awards Ceremony to be performed on the 15th of September 2015 in Istanbul.

Outstanding design in steel construction emphasizes the many advantages of steel in construction, production, economy and architecture. Steel offers new solutions and opportunities, allowing architects and engineers to stretch their imagination and actually create some of the challenging structures. Structural steel is low cost, strength, durability, design flexibility, adaptability, recyclability and sustainability making it the material of choice in building construction.

GERMANY

Turmtänzer [Climbing at the Harbour of Münster], Münster, Germany

Students: Lea-Anna Zora,
Anne-Sophie Weißhuhn
Professor: Prof. Dipl. Ing. Johannes Schilling,
Address: MSA,
Münster School of Architecture,
Münster Germany

The project with its strong associative strength and focus on the urban planning context is a true landmark in the old harbour of Münster. Besides the strong sign as an object, the unorthodox use as public climbing tower of the steel sculpture is regarded positively.

Steel is used in its “pure” form for the space framework and for the folded vertical surface which forms directly the climbing structure. As it is used in the right way according to its characteristics, the building appears extremely sophisticated and elegant. It has what it takes to be the initiative for the future urban planning in this area. The building stands in the centre of everyday life and makes a major contribution to the perception of modern architecture in the public.

ITALY

A new cycle track and footpath along the banks of the Arno in Pisa: from history to design, Pisa, Italy

Engineering: Dr. Ing. Filippo Ulivieri
Professor: Prof. Dr. Pietro Croce, Prof. Dr. Pietro Ruschi, Dr. Daniele Pellegrini
Address: Via degli Scalini, 9, 50050 Capraia e Limite (FI) Italy

The project takes into account environmental setting, the integrated architectural and engineering design and the structural checks in accordance with the relevant Standards.

The replacement of the dissipation areas with friction dissipaters in the beam to column nodes and column-foundation nodes is highly effective and original. The work carried out is undoubtedly wide ranging and very demanding in both experimental and numerical terms, and has been carried out using refined instruments and specialist techniques. The project is of great interest not only from a scientific viewpoint, but also in practical and application terms. The comprehensive nature of the work, lucidity of the explanations and design tables are particularly appreciated.

NETHERLANDS

High Strength steel, a slimming product?
Research project, The Netherlands

Project owner: Gerwin Schut
Adress: Balthasar van der Polweg
718B 2628 ZH Delft

The final-year-student has researched the economic and environmental effects of replacing conventional steels such as S235, S275, and S355 with high strength steel. The recently completed platform roofing at Groningen Europapark station – constructed with S235 – was compared to the same design in S460, the only high strength steel included in the Eurocodes. The design potential was also explored using a new design that made optimum use of the properties of S460.

In the first instance the design was converted to S460 rather than modified. The section thicknesses were decreased where possible.

This optimisation resulted in a weight reduction of 15% and cost reduction of 7% compared to S235.

NORWAY

Through the Forest of Columns
Bergen, Norway

Student
Architecture: Gudrun Jona Arinbjarnardottir

Through the Forest of Columns is an intervention under and around the existing Puddefjord Bridge in the city centre of Bergen, Norway. The Puddefjord Bridge connects the old industrial neighbourhood of Mpris on the city side to Gyldenpris and Laksevåg on the other. It crosses the strait of Damsgårdssundet thirty metres above the surface of the water. The existing bridge structure dwarfs its immediate urban surroundings and creates dead space on both sides and below.

The intervention consists of a web of new pedestrian and cycle routes that intertwine with the forest of columns below the existing bridge. The intention is to revitalize the area by increasing connectivity and allowing for new kinds of activities and experiences to take place. Functionally, the new routes separate pedestrians and cyclists from traffic and provide shelter under the existing bridge.

TURKEY

Modular Disaster Dwells
Ercis, Van, Turkey

Students:
Engineering: Senol Keskin
Adress: Boğaziçi University Istanbul
Architecture: Burçak Sönmez, Oğuzhan Aydın, Sinan Tuncer, Yücel Demir
Address: Yıldız Technical University Istanbul

Sheltering requirement after natural disasters is met through immediate aid supply, rehabilitation and reconstruction processes. In all phases of this process, problems such as resource consumption, economic and environmental challenges and inability to fulfil consumer's needs emerge. To meet the requirements, this project offers sustainable, premeditated, after-natural-disaster long lasting sheltering options.

The project provides high sophistication in the system design from component level to the system integrity, the variety of housing units comprised from suggested structure components, adaptation to environmental conditions and relative life scenarios at the settlement measure, creation of an environment where solar energy is provided as the main energy source.

WINNERS OF STEEL DESIGN AWARDS SINCE 1997

1997

AUSTRIA	District Plant Vienna south
BELGIUM	Reconstruction of the "Kronprinzenbrücke", Berlin
DENMARK	"Rotunden", Tuborg nord, Copenhagen
FINLAND	Landscape 2000 cybernetics, Karkkila
FRANCE	Bridge Charles de Gaulle, Paris
GERMANY	Cycling hall, Berlin
ITALY	Elevated Heliport Structures of the new Lingotto, Torino
NETHERLANDS	Centre for Human Drug Research in Leiden
NORWAY	Trondheim Airport Vaenes, Terminal A
ROMANIA	Hybrid tensioned membrane for a market in Timisoara
SWEDEN	Gothenburg central - Nils Ericsson Terminal, Göteborg
SWITZERLAND	Three Countries' corner, Basel
TURKEY	Bati tourism centre project, Istanbul
UNITED KINGDOM	"White rose" shoping centre, Leeds

1999

AUSTRIA	Reichstag, new German parliament, Berlin, Germany
BELGIUM	La Garde-Adhémar bridge, Spanning the Donzére-Mondragon Canal, Pierrelatte, France
CZECH REPUBLIC	Mariánský Bridge, Usti nad Labem
DENMARK	The East bridge,Storebælt
FRANCE	Terminal 2F, Roissy
GERMANY	Shipyard Building Volkswerft, Stralsund
ITALY	New exhibition center Hall 19-20 in the Bologna exhibition centre
LUXEMBOURG	City centre of Kirchberg, Luxembourg
NETHERLANDS	Storm Surge barrier on the waterweg, located between the towns of Hoek van Holland and Maassluis
NORWAY	Protective structure for Hamar Cathedral ruins
SLOVENIA	Bridge for Pedestrians and cyclists across the river Drava, Ptuj
SWEDEN	Aula Magna, Stockholm
SWITZERLAND	Lucerne culture and convention centre
TURKEY	The Sabanci Convention and Exhibition Centre, Antalya
UNITED KINGDOM	New Millennium Experience, London

2001

AUSTRIA	UFA cinema centre, Dresden, Germany
BELGIUM	Pont de l'Europe • Orléans, France
CZECH REPUBLIC	Administration centre of the South Moravian Gasworks, Brno
DENMARK	The Øresund Bridge • Øresund
FINLAND	Itamerentori Office Building (Baltic Sea Tower), Helsinki
FRANCE	Middle School "André Maurois", Limoges
GERMANY	CargoLifter Shipyard, Brand (Berlin)
ITALY	World Distribution and managing Center Safilo Group S.p.A.
NETHERLANDS	The British Airways London Eye • London, UK
NORWAY	Airport train terminal at Oslo S, Oslo
SLOVENIA	Home of Economy. Office Building of the Chamber of Commerce and Industry of Slovenia (CCIS)
SWEDEN	Infra City Business Center, Upplands Väsby
SWITZERLAND	Messe Basel, Halle 1
TURKEY	Istanbul-Sabiha Gökçen Airport - International Terminal, Istanbul
UNITED KINGDOM	Central park - block E, Dublin

2003

AUSTRIA	Atrium Roof of the Great Court, British Museum, London, UK
BELGIUM	Swiss Re London Headquarters Building, London, UK
DENMARK	Covering of Parken, Copenhagen
FINLAND	High Tech Center Helsinki, Helsinki
FRANCE	Gare TGV d'Aix-en-Provence
GERMANY	Hot Dip Galvanizing Line, Dortmund
HUNGARY	Covering of the UTE Stadium's Grandstand, Budapest
ITALY	Chavanon Viaduct, Motorway A89, France
LUXEMBOURG	Chambre du commerce de Luxembourg
NETHERLANDS	ING-House, Amsterdam
NORWAY	Mortensrud Church, Oslo
ROMANIA	Bank Post Timisoara
SLOVENIA	Shopping Center Mercator, Nova Gorica
SWEDEN	Bridge Apatê, Stockholm
SWITZERLAND	Roof of the University of Zurich
TURKEY	Automatic Carpark Building (Milli Reasurans Tas Multistorey), Istanbul
UNITED KINGDOM	The Boxworks, Manchester

2005

AUSTRIA	Air traffic control tower, Vienna Airport
BELGIUM	Three bridges over the Hoofdvaart Haarlemmermeer
CZECH REPUBLIC	Sazka Arena, Prague
DENMARK	Flintholm Station, Vanløse
FINLAND	TKP Finnmap Offices, Helsinki
FRANCE	Millau Viaduct
GERMANY	Munich International Airport Terminal 2
ITALY	Olympic Stadium “OAKA”, Athens
LUXEMBOURG	Grande-Duchesse Joséphine-Charlotte Concert Hall, Luxembourg
NETHERLANDS	Hoge Bridge, Maastricht
NORWAY	V-House, Nesya
PORTUGAL	Estadio do Dragao - Rooftop, Porto
ROMANIA	Charles De Gaulle Plaza Building, Bucharest
SLOVAKIA	Kosicka Bridge, Bratislava
SLOVENIA	TZC Portoval - Amusement, Commercial and Business Centre, Novo Mesto
SPAIN	Campis Elisis - Footbridge on the Segre River, Lleida
SWEDEN	Mjärdevi Center, Linköping
SWITZERLAND	“La Ferriera” building, Locarno
TURKEY	Dolapdere campus second building of Istanbul Bilgi University, Istanbul
UNITED KINGDOM	The Wales Millennium Centre, Cardiff

2007

AUSTRIA	Zlote Tarasy atriumroof, Warsaw (Poland)
BELGIUM	Gustave-Flaubert bridge , Rouen (France)
CZECH REPUBLIC	Pedestrian bridge across D8 highway
DENMARK	Fiberline Composites factory, Fuen
FINLAND	Kamppi Centre, Helsinki
FRANCE	Simone-de-Beauvoir footbridge, Paris
GERMANY	Multi-storey car park across A8 motorway, Stuttgart
ITALY	Oval” Olympic speed ice skating arena, Turin
LUXEMBOURG	Centennial Pavilion, Esch-sur-Alzette
NETHERLANDS	WKK energy plant, de Uithof-Utrecht
NORWAY	Papirbredden, Drammen
PORTUGAL	Francisco Sa Carneiro Airport
ROMANIA	Tower Center International, Bucharest
SLOVENIA	TRIP or Trimo Research
SPAIN	New terminal area of Madrid-Barajas airport
SWEDEN	Floating roof, Vällingby Centre, Stockholm
SWITZERLAND	Center Paul Klee, Bern
TURKEY	Izmir Adnan Menderes Airport International Terminal and car park
UNITED KINGDOM	Royal Air Force Museum, Cosford

2009

AUSTRIA	Neue Mitte Lehen, Salzburg
BELGIUM	Leuven Railway Station, Leuven
CZECH REPUBLIC	Strizkov Subway station, Prague
DENMARK	Concerthuset, Copenhagen
FRANCE	Terminal 2E, Charles-de-Gaulle Airport • Roissy (Paris)
GERMANY	Klimahaus® Bremerhaven 8° Ost
ITALY	Three bridges in Reggio Emilia
LUXEMBOURG	European Court of Justice, Luxembourg
NETHERLANDS	Kraanspoor Office Building, Amsterdam
NORWAY	Ypsilon Footbridge, Drammen
PORTUGAL	Bascule Bridge, Leixões
ROMANIA	Business Park, Brasov
SLOVENIA	Football stadium, Maribor
SPAIN	Media-TIC Building, Barcelona
SWEDEN	Swedbank Stadion, Malmö
SWITZERLAND	Letzigrund Stadium, Zürich
TURKEY	Greengrocers and fishmongers market, Bursa
UNITED KINGDOM	Wimbledon Centre Court, Wimbledon

2011

AUSTRIA	Baku Tollgate, Baku, Azerbaijan
CZECH REPUBLIC	Arena Chomutov, Chomutov
DENMARK	The Crystal, Copenhagen
FRANCE	Basalte Building, Paris La Défense
GERMANY	Formula I Race Track, Yas Marina Circuit, Abu Dhabi, United Arab Emirates
HUNGARY	Terminal Sky Court of Ferenc Liszt International Airport, Budapest
ITALY	Aviva Stadion, Dublin, Ireland
LUXEMBOURG	Les Rives de Clausen Office Building, Luxembourg
NORWAY	Holmenkollen K120 ski jump arena, Oslo
PORTUGAL	Dolce Vita Tejo, Amadora
ROMANIA	Otopeni International Airport Development, Bucharest
SPAIN	Sant Josep Building Refurbishement, Vall de Nuria (Girona)
SWEDEN	Discfilter Building, Gothenburg
SWITZERLAND	School in Leutschenbach, Zürich
TURKEY	Sabiha Gökcen International Airport-The New Terminal Building, Istanbul

2013

AUSTRIA	Central Railway Station Salzburg
CZECH REPUBLIC	Bridge accross the Lochkov Valley, Prague
FRANCE	Stade de Lille, Lille France
GERMANY	Bharati, New Indian Research Station, Larsemann Hills, Antarctica
ITALY	New High Speed Railway Station, Turin Porta Susa, Turin, Italy
LUXEMBOURG	CCK Centre de Conférence Kirchberg, Luxembourg Kirchberg
NETHERLANDS	Platform canopies and Pedestrian bridge, Arnhem Central Station, Arnhem The Netherlands
NORWAY	Trollstigen National Tourist Route, Trollstigen – Tourist Route
PORTUGAL	Arena Fonte Nova Stadium, Salvador da Baia, Brazil
SWEDEN	The Tullhus Bridge, Norrköping, Sweden
SWITZERLAND	Bridge Hans Wilsdorf, Geneva
TURKEY	Steel Radar Towers, Izmit Turkey

Details of above projects can be seen at the webpage of http://www.steelconstruct.com/old/awards/2011/

ECCS

The European Convention for Constructional Steelwork (ECCS) is the representative organisation for the European constructional steelwork industry. Its aims are to coordinate worldwide research and development, to support promotion and education and to encourage the dialogue between the industry, the government, academics and clients.

The organisations of twenty-one nations are member of the ECCS.

ECCS Full Members

ECCS-CECM-EKS
32, Av. des Ombrage, bte 20,
1200 Brussels, Belgium
eccs@steelconstruct.com
www.steelconstruct.com

Austria
Österreichischer Stahlbau Verband (ÖSTV)
Wiedner Hauptstraße 63,
A-1045 Wien, Austria
stahlbau@fmmi.at
www.stahlbauverband.at

Czech Republic
Ceska Asociace Ocelovych Konstrukci (CAOK)
Na Obvodu 41 703 00
Ostrava, Czech Republic
sekretariat@caok.cz
www.caok.cz

Denmark
Dansk Stalinstitut (DSI)
Gydevang 39-41
3450 Allerød, Denmark
dsi@steelinfo.dk
www.steelinfo.dk

Finland
Finnish Constructional Steelwork Association (FCSA)
P.O. Box 381
00131 Helsinki, Finland
markku.leino@fcsa.fi
www.fcsa.fi

France
Syndicat de la Construction Metallique de France (SCMF)
20, rue Jean-Jaurès
92807 Puteaux Cedex, France
s.c.m.f@wanadoo.fr
www.scmf.com.fr

Germany
Deutscher Stahlbau–Verband (DSTV)
Sohnstraße 65
40237 Düsseldorf, Germany
contact@deutscherstahlbau.de
www.deutscherstahlbau.de

Hungary
Magesz Hungarian Steel Association
Béla u. 84
1161 Budapest, Hungary
ldunai@epito.bme.hu

Italy
Unione Nazionale delle Industrie delle Costruzioni Metalliche dell'Involucro e dei serramenti (UNICMI)
Via Chieti, 8 20154 Milano, Italy
unicmi@unicmi.it
www.unicmi.it

Luxembourg
Industrie Luxembourgeoise de la Technologie du Metal (ILTM)
B. P. 1304 Rue Alcide Gasperi,
7 1013, Luxembourg
e.hendrickx@lindab.com
www.fedil.lu

The Netherlands
Samenwerkende Nederlandse Staalbouw (SNS)
Einsteinbaan 1 3439 NJ Nieuwegein
Postbus 2600 3430 GA Nieuwegein, The Netherlands
vasquez@metaalunie.nl
www.staalbouw.net

Norway
Norsk Stalforbund, Norwegian Steel Association
Biskop Gunnerus gate 2
0155 Oslo, Norway
post@stalforbund.com
www.stalforbund.com

Poland
Faculty of Civil Engineering
Warsaw University of Technology
Al. Armii Ludowej 16
00-637 Warszawa, Poland

Portugal
Portuguese Steelwork Association
Business Center Leonardo da Vinci Coimbra iParque Lote 3
3040-540 Antanhol, Portugal
cmm@cmm.pt
www.cmm.pt

Romania
Department of Steel Structures and Structural Mechanics
University "Politehnica" Timisoara
Ioan Curea 1 300224
Timisioara, Romania
dubina@constructii.west.ro

Spain
Asociación para la Construcción de Estructuras Metálicas (ASCEM)
Calle Aribau, 168 1º 1ª
08036 Barcelona, Spain
info@ascem.org
www.ascem.org

Sweden
Stålbyggnadsinstitutet (Swedish Institute of Steel Construction) (SBI)
Vasagatan 52, 4tr
111 20 Stockholm, Sweden
info@sbi.se
www.sbi.se

Switzerland
Stahlbau Zentrum Schweiz (SZS)
Seefeldstrasse 25
8008 Zürich, Switzerland
info@szs.ch
www.szs.ch
www.magesz.hu

Turkey
Türk Yapısal Çelik Derneği (Turkish Constructional Steelworks Association) (TUCSA)
Altunizade Mah. Bayramağa Sk.
Aksu Ap. No: 14 D:4 Üsküdar
34662 İstanbul, Turkey
tucsa@tucsa.org
www.tucsa.org

ECCS Associate Members

Belgium
Infosteel
5, Avenue Ariane
1200 Brussels, Belgium
info@infosteel.be
www.infosteel.be

France
ConstruirAcier
20, Rue Jean Jaurès
92800 Puteaux, France
www.construiracier.fr

Centre Technique Industriel de la Construction Métallique (CTICM)
Espace technologique L'orme des merisiers Immeuble Apollo
91193 Saint-Aubin, France
cticm@cticm.com
www.cticm.com

Germany
Comité International poue le Développement et l'étude de la Construction Tubulaire (CIDECT)
V & M Deutschland GmbH
Postfach 320 230
40435 Düsseldorf, Germany
marcel.schneider@vmtubes.de
www.cidect.org

United Kingdom
Tata Steel in construction
PO Box 1 Brigg Road
Scunthorpe DN16 1BP
North Linkolnshire, United Kingdom
construction@tatasteel.com
www.tatasteelconstruction.com

ECCS International Members

Japan

Japanese Society of Steel Construction (JSSC)
Yotsuya-Mitsubishi Bldg. 9F, 3-2-1 Yotsuya,Shinjuku-ku, Tokyo 160-0004, Japan
JSSC-INFO@jssc.or.jp
www.jssc.or.jp

ECCS Supporting Members

Italy

Marcegalia S.p.A.
via Bresciani, 16
46040 Gazoldo Ippoliti,
Mantova, Italy
info@marcegaglia.com
www.marcegaglia.com

Luxembourg

European Structural Steel Promotional Group (ESSPG).
c/o ArcelorMittal Sections
Commercial rue du
Luxembourg, 66
4009 Esch-sur-Alzette,
Luxembourg
bruno.theret@arcelor.com
www.constructalia.com

United Kingdom

European General Galvanizers Association (EGGA)
Maybrook House Godstone
Road Caterham Surrey CR3
6RE, United Kingdom
mail@egga.com
www.egga.com

Production
ECCS

Conception and editing
Prof. Dr. Harun Batırbaygil, TUCSA
H. Yener Gür'eş, ECCS PMB Chair
Dr. A. Berna Aydöner, TUCSA

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