European Steel Design Awards 2019

Steel is recognized for its high potential in terms of strength, durability, design flexibility, adaptability, recyclability and reusability. Today's steel structures allow the best adaptation to modern life and renovation of historical elements of our landscape, being in cities or countryside. Steel is also the perfect material for reaching a circular economy while leaving the necessary room for creativity in design.

The European Steel Design Awards are given by the European Convention for Constructional Steelwork (ECCS) every two years to encourage the creative and outstanding use of steel in architecture. The awards are dedicated to the owners, the architects, the engineers, the general contractors and the steelwork contractors.

ECCS is the European Association of Steelwork Contractors, the unique platform gathering steel producers, contractors, researchers and academics. ECCS is a federation of 18 national associations of steelwork contractors.

The Professional and International Jury counted with:

Lasse Kilvaer, Norway, Chairman of AC4 Architectural Awards Committee and Chairman of the Jury Meeting;
Vincent de Ville de Goyet, Belgium, Engineer, Design office Greisch;
Philippe Samyn, Belgium, Architect, Samyn and Partners;
Georg Pendl, Austria, President ACE, Architects' Council for Europe;
Aris Chatzidakis, Greece, President of the European Council for Civil Engineers;
Véronique Dehan, Belgium, Secretary General ECCS.

The European Steel Design Awards of Merit and Excellence have been selected among the finalists, which were chosen from the initial nominees, out of 28 projects submitted in total.

The finalists for the 2019 European Steel Design Awards are***:***
(by country alphabetical order)

Austria: **The New ÖAMTC Headquarters, Vienna**

The building is laid out in the form of a rim with five "spokes" and consits of the ring facade, the storey car park, the hangar and the heliport and the atrium staircases made of steel. The 230 m long and nearly 17 m high ring facade forms the connecting element that extends from spoke to spoke used as evacuation and noise reduction.

Owner:
Austrian Automobile, Motorcycle and Touring Club
Engineer:
Unger Stahlbau Ges.m.b.H.
Architect:
Pichler & Traupmann Architekten GmbH
General Contractor:
Bauunternehmnung GRANIT Gesellschaft m.b.H.
Steelwork contractor:
Unger Stahlbau Ges.m.b.H.

Czech Republic: **Replacement bridge over the Dam Hracholusky**

The object of the project was the reconstruction of the bridge at km 1,429 of national onetrack between Pňovany and Bezdružice. The uniqueness of this project lies in the way of replacement of the three fields of the old bridge. It wasn't possible to do assembly by traditional way (using a crane or pull-out). Therefore it has been selected rotated joining with the related-consuming static calculations.

Owner:
SŽDC s.o.
Engineer:
SMP Praha a.s.
Architect:
TOP CON SERVIS s.r.o.
Czech Technical University in Prague, Faculty of Civil Engineering, Department of Steel and Timber structures
General Contractor:
associations of companies MCE Slany s.r.o.
SMP Praha a.s.
Steelwork contractor:
MCE Slany s.r.o.

Denmark: K.B. Hallen, Copenhagen

Structural concept: Hall with circular arches, simply supported at anchored direct foundations. The building is stabilized longitudinally by the roof slab and longitudinal walls. Upper floor around the hall. Basement under most of the building.

Owner:
Kjøbenhavns Boldklub
Engineer:
Ramboll Denmark
Architect:
Christensen & Co. Arkitekter
General Contractor:
Einar Kornerup
Steelwork contractor:
Give Stålspær

Finland: Oodi Central Library, Helsinki

The building is an architectural vision of complex 3D surfaces and large obstruction free open spaces, that has been successfully delivered to a stringently defined budget of EUR98m and opening date of the eve of the day of independence.

Owner:	Helsinki City
Engineer:	Ramboll Finland
Architect:	ALA Architects
General Contractor:	YIT Rakennus Oy
Steelwork contractor:	Ramboll

France: Simonne-Mathieu Tennis Court, Roland Garros

Taking its inspiration from these hothouses made of glass and cast iron so characteristic of the nineteenth century, the new tennis court will be partly below ground level, surrounded by a terraced concrete platform, surmounted by a steel structure, and wrapped around with botanical greenhouses designed to meet the highest technical specifications.

Owner:
Fédération Française de Tennis.
Engineer:
Marc Mimram Ingéniérie
Architect:
Marc Mimram Architecture & Associés
General Contractor:
Vinci
Steelwork contractor:
Viry - Fayat Metal

Germany: Adidas Arena, Herzogenaurach

The adidas Arena – World of Sports complex in Herzogenaurach, Germany, consists of a ground floor embedded in the landscape and a three-storey 143 x 118 m superstructure that seems to hover above it. This impression is enhanced by six large continuous light wells and slim pillars arranged with irregular spaces between them. Access is provided by two means, i.e., at the centre of the building, a structural core which is very slender in one direction and a wide sculptural foyer staircase.

Owner:
adidas AG
Engineer:
Werner Sobek Stuttgart AG with stahl + verbundbau GmbH and Züblin Stahlbau GmbH
Architect:
Behnisch Architekten
General Contractor:
Ed.Züblin AG
Steelwork contractor:
ARGE WoS Stahlbau
Züblin Stahlbau GmbH
stahl+verbundbau GmbH

Norway: PAN Treetop Houses, Gjesasen

The architecture of the PAN Treetop Cabins combines lookout towers for spotting forest fires with A-framed lodges common to North America in particular. Firmly anchored in the bedrock, the cabins are reached via spiral staircases on their sides. Their triangular shape has enabled the creation of a space which is both atmospherically narrow and monumentally high.
The materials were selected to create both a natural feel and differentiation from the surrounding wilderness: unlike most summer cabins, PAN Treetop Cabins are made from metal rather than wood.

Owner:
Christine Mowinchel and Kristian Rostad.
Engineer:
Finn-Erik Nilsen
Architect:
Espen Surnevik
General Contractor:
ARMEC AS
Steelwork contractor:
ARMEC AS

Portugal: Hippodrome de Longchamps, Paris

This new building is integrated on the rehabilitation of Longchamps Hippodrome and it consists on a new tribune with capacity of 10.000 places and in terms of utilization it includes a restaurant, five reception halls, 5 bars and spaces for the press and race control.
The architectural design is based on transparent plans allowing fans to be in permanent contact with all the environment.

Owner:
France Galop
Engineer:
Jaillet Rouby
Architect:
Dominique Perrault Architecture
General Contractor:
Bouygues OPB
Steelwork contractor:
Bysteel

Sweden: Kristallen, Kiruna

The Swedish town of Kiruna, 95 miles north of the Arctic Circle, sits atop the largest iron ore mine on the planet. The mine birthed Kiruna – And now, it threatens to erase it. A century of mining operations has begun to destabilize the earth around Kiruna. The ground is breaking, splitting into deep rifts and falling into sinkholes – Within the century, these rifts threaten to swallow the town. In response to this threat, mining firm Luossavaara-Kiirunavaara (LKAB) has proposed a direct solution: Move Kiruna three kilometers east.

Owner:
LKAB
Engineer:
WSP Sweden
Architect:
Henning Larsen Architects
General Contractor:
PEAB
Steelwork contractor:
Ruuki Construction

Switzerland: Jet d'eau Movable Footbridge, Geneva

The Jet d'Eau esplanade is a new public space that leads walkers to the base of Geneva's most emblematic landmark, the Jet d'Eau. A local-solid-oak pontoon stretches over approximately 200 m connecting the bank of Lake Geneva to the Jet d'Eau.
The esplanade's central piece is a movable footbridge whose design aims to reconcile the passage of boats and pedestrians. Throughout the day, while the Jet d'Eau is turned on, the footbridge remains at rest and horizontal; pedestrians and people with mobility impairments can thus enjoy the walk along the promenade.

Owner:
Handicap Architecture Urbanisme (HAU Genève)
Engineer:
Ingeni SA
Architect:
MID Architecture
General Contractor:
/
Steelwork contractor:
Stephan SA

The Netherlands: Station E-line, Den Haag

The steel 'bridge', with a total length of 323 m, is divided into ten spans of different lengths. The width of the bridge varies from 10.5 m at the furthest end to 16.5 m in the station. Seen from the side, the bridge is a closed undilated steel box girder with an elegant cross-section made of rolled steel sheet. The entire structure rests slidingly on round steel pillars with a diameter of 2 m and a height of up to 10 m. The station at the end of the bridge is surrounded by a 90 m long steel and glass roof.

Owner:
ProRail, Gemeente Den Haag
Engineer:
Movares, Royal Haskoning DHV, Knippers Helbig, BAM Infraconsult, Ney & Partners
Architect:
Zwarts & Jansma Architects, Amsterdam
General Contractor:
BAM Infra, Gouda
Steelwork contractor:
Jos van den Bersselaar Constructie, Smulders

Turkey: Sveti Stephan Bulgarian Church Restoration, Istanbul

The structure of building consists of steel moment resisting frames manufactured by using cast-iron sections, sheets and forged iron which were connected to each other through bolts and nuts, rivets or welds. Initial works of foundation started in 1859 for the historical church. It was manufactured and delivered by Waagner Company located at Vienne, Austria in 1895 and the construction of structures was completed in 1896, and opened in 1898. The first renovation was made in 1946.

Owner:
Bulgarian Orthodox Churches Foundation
Project Investor:
Istanbul Metropolitan Municipality
Engineer:
Kuram Mühendislik/Teori Mühendislik Ltd
Architect:
Halil Onur Mimarlik Ofisi
General Contractor:
Taşyapi Inşaat Sanayi ve Ticaret Co. Inc.
Steelwork contractor:
Şanlibayrak Çelik Konstruksiyon Inşaat San.ve Tic. Ltd

The Awards Ceremony for the European Steel Design Awards 2019

The European Steel Design Awards 2019 will be given at the European Steel Design Awards Ceremony on 14th October 2019 in the **MIM (Music Instruments Museum) from 5 pm to 8 pm** and will be followed by a cocktail reception. Winners will be announced during the Ceremony and published on the ECCS website: www.steelconstruct.com. The material is copyright-free for press-release and publication referring to ECCS European Steel Awards (no advertising).

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