

Annecy (France)

2012 - I-Novation structure, 10m high, engineered for a suspended load of 19 tons and a snow load of 75kg/sqm. Set up as a new theater during the renovation works of their old buildings



London Olympics

2012 - 7.000sqm of I-Novation structures used as warm-up facilities for Hand-Ball, Basket-Ball, Badminton and Gymnastics



Tahiti (Polynesia)

2013 - 37,5m x 25m I-Novation structure used to cover the main grandstand for the FIFA Beach Soccer World Cup



Marseille (France)

2012 - Permanent cover of 4 tennis courts with pre-stressed saddle roof and cedar cladding on walls



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I-novation

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SpanTech I-Novation building is a truly new approach to exhibition buildings, industrial warehousing, logistics and sport arena.

Fast :
no foundations required, fast to erect (within a few working days).

Simple :
ease of assembly & build up.

Durable :
some of our buildings have over 22 years of service.

Relocatable building alternative :
100% dismantlable, adaptable and relocatable.

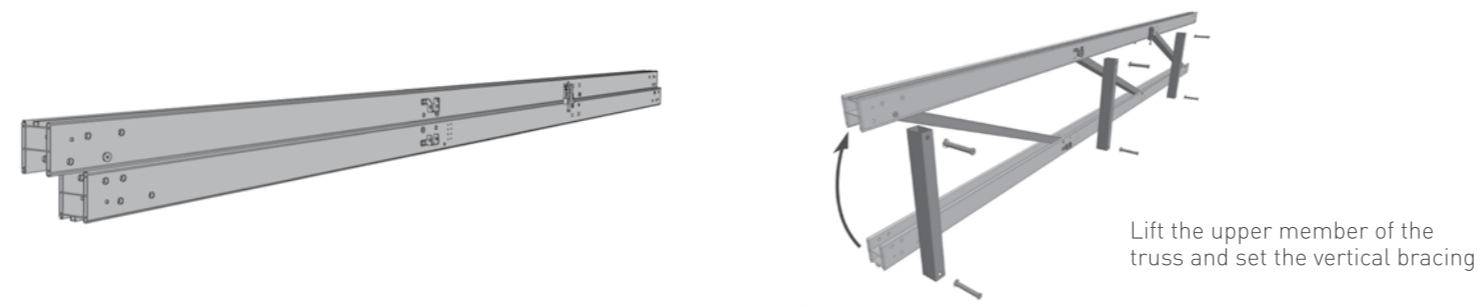
Environment Friendly:
insulated building with translucent natural lighting reducing electricity costs.

STRUCTURE:

The I-novation structure consist of a patented modular foldable truss system. The low pitch of the roof offers to users a rational inner volume to maximize storage or exhibition and promotion space. I-novation can span from 15 up to 70m without columns. The building has a standard cleared height under the truss of 7,2m but can be delivered with any measurement from 5 to 13m columns. Truss profile are made off European aircraft aluminum 6061T6 fully CNC machined for a perfect fitting, assembly and patented foldable system. Side columns can be either aluminum or steel depending on the architectural details and application. Truss legs are also used for building higher than 8m.

Patented foldable truss

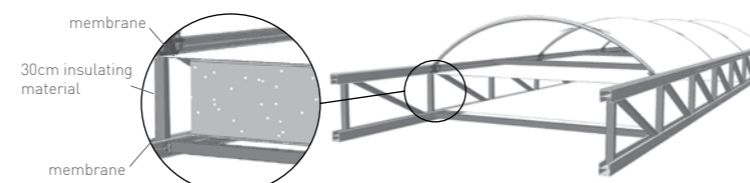
The truss is folded during transport for saving space and cost. When deployed, the frame performs with high stability.



Membrane

For permanent set up, it is preferred to use the Pre-Stressed Saddle Roof, a double curvature high quality PVC coated membrane (see fig 1). Extra liner can be added to enhance thermal insulation. Alternatively, insulating material can be installed in between liner to meet most specified insulating values. For short term period, I-novation can use inflated roofs that both offers insulation and ease of installation since sheets only need to be pulled in and inflated (see fig 2).

Fig 1 - Prestressed Saddle Roof



Membrane	Gr/m2		Total U value
Saddle roof	800 gr/m2	Verseidag	U = 6,4
Inner liner	450 gr/m2		U = 2,33 / 2 layers
Inner liner	450 gr/m2		U = 1,39 / 3 layers

Fig 2 - Thermo Roof



Membrane	Gr/m2		Total U value
Inflated Roof	2 x 650 gr/m2	Verseidag	U = 2,3 for double roof 650gr
Compressor		Nolting	

Sandwich panel polyurethane 40mm U = 0,62 W/m² * K / Sandwich panel polyurethane 80mm U = 0,31 W/m² * K

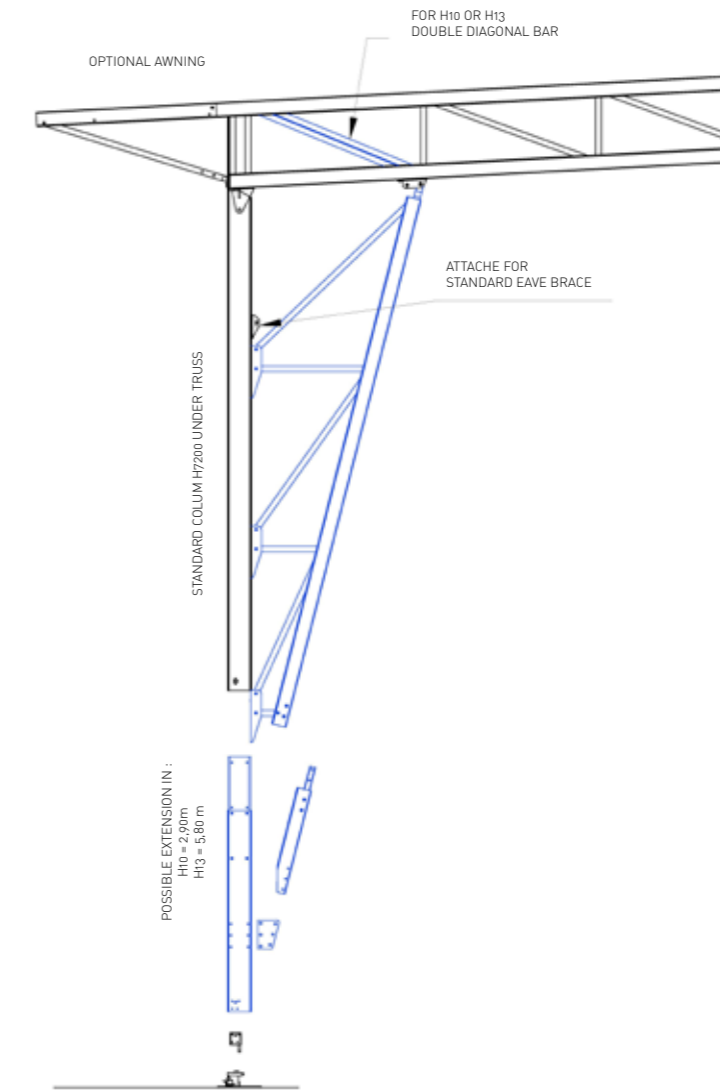
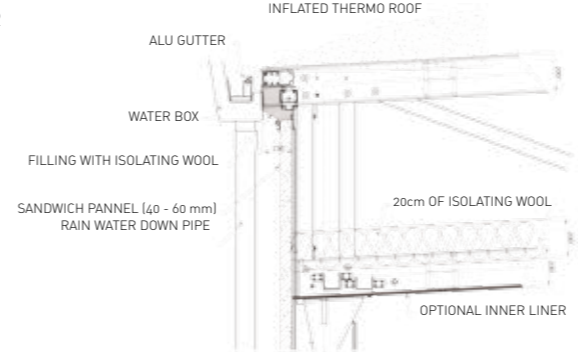
Fully integrated building solution

I-novation is designed with a water tight clip that connect each roof panel (see fig 1). Several solutions can be combined to provide perfect insulation of the building: isolating wool, inner liner or sandwich cladding panel (see fig 2).

Fig 1



Fig 2



Large inner volume

Thanks to truss leg system, standard I-Novation can be raised up to 13m under the truss. All parts are reusable.

