



PRESS RELEASE 2nd of April 2012

Frisomat develops a world first 50 meter free span in cold-rolled steel.

Wijnegem, 02/04/2012 | *As a pioneer in steel constructions, the Belgian Construction company Frisomat develops a 50m free span in cold-rolled steel. So far, steel constructions like this, could go to a maximum width of 35 metres, in exceptional cases, up to 40 metres. It is a world first introduced by Frisomat, specialized in the development, production and construction of pre-engineered steel buildings.*

Test set-up on a 1:1 scale

To turn theory into practice, Frisomat has mounted a truss beam framework of 50m wide on its factory premises in Belgium.

Why a full-scale test model ?

- To measure the bending (positive camber), which theoretically is very difficult to predict
- To verify the solidity of the structure, by suspending a ballast of 1.700kg onto the steel construction. The weight is equal to the load of the steel purlins and roof sheeting.
- To suggest clear and tested assembly instructions for our technicians

100% success rate

The results of the test configuration turned out to be very successful. Despite the ballast, the steel structure showed almost no bending or distortion. The results were so good in fact, the concept doesn't require any modification whatsoever. Thanks to in-depth engineering, a new standard is set for constructions in cold rolled steel.

Industrial warehouse of 6,250 m²

After the experience with the test configuration, the project becomes reality in the autumn of 2012.

The industrial building will serve as a warehouse in a South-American port terminal. The project (125m long, 50m wide and 9m high) is custom-made for the client. For example:

- one 8m wide canopy on the 125m long sidewall of the warehouse
- one 8m wide canopy on the front wall
- 5 industrial sliding doors
- A mezzanine inside serving as office space

The close proximity to the sea, a very aggressive environment, requires a special PVDF coating. This to guarantee the colour retention and the life span of the roof and wall sheeting.

High wind load

The hangar will be able to resist a wind load of 168km/h, which is the toughest standard for South America. Because of this heavy load, double and asymmetric columns are required to counteract declension. The truss beam framework columns are providing extra reinforcements.

Some numbers

- Weight of test set-up: 4 tonnes
- Biggest thickness of steel: 4mm
- Width test configuration: 50m
- Period of assembly: 1 day
- Number of light cranes used to build up one frame: 3

Who is Frisomat?

Frisomat is a Belgian company specialized in the development, production and construction of pre-engineered steel buildings according to 9 building concepts.

Each building concept is made of prefabricated steel components that fit together like one large building kit. These cold rolled parts are produced out of coils of galvanised high strength steel. Cold profiled steel combines an exceptional strength with an optimal use of materials.

After the start in 1978 with the famous Romney buildings (semi-circular hangar), the company has focused on the development of the cold rolled steel as a basic structure in industrial building. Thanks to the relatively low weight the company exports its pre-engineered steel constructions worldwide. Export generates about 80% of the turnover.

Meanwhile, Frisomat has 16 affiliates spread over Europe, Brazil, Afrika and two production sites (Belgium and Romania). The company has an internal design and development department and employs about 400 people worldwide.

Frisomat

Please contact us for photos in high resolution and for further information.

Contact : Olivier De Smedt

Stokerijstraat 79

2110 Wijnegem

T +32 3 353 33 99 – GSM : +32 495 84 14 51

E : marketing@frisomat.be

