

Industrial Process Bridge for Food, Agricultural, Pipe Rack, etc

Description

In recent years, Carl-C. A/S has become a strong supplier of industrial process bridges/lattice bridges to the Nordic countries.

The process bridges/lattice bridges are a good, strong and cost-effective solutions when you need to have material transported 'in air' from one processing plant or warehouse to another. It can be anything from grain, potatoes and other agricultural products to gas or liquids in pipe racks etc.

Carl-C's design and project management team are often involved from the very beginning of the design phase, meaning the client will convey their requirements and wishes to the system including site specifications after which we will calculate the system fit for purpose and submit a quotation and preliminary design drawings.



We can supply all types of solutions both with short and long spans and with or without support columns, with incline or straight horizontal. Bridges can be fitted with access platform along the span of the bridge or platforms at strategic points. Bridges can also be fitted with horizontal and vertical fall arrest system, be it Latchway, SÖLL, etc. Our constructions are of course CE conformity marked.

We provide our own team of riggers and cranes and will be able to install the towers as well. You are welcome to contact our sales staff at Carl-C, and we will find the perfect solution for your project.

The system appears light and elegant after installation as we primarily use solid bar steel for the material. The system will be analysed for a basic wind speed of up to 31m/s, relevant to Shetland Island, Terrain Category I/II/III with ice or without ice loading.

Specification

Material: S355J2 acc. to EN 10025-2

Execution Class

EXC2 acc. to EN 1090

Corrosion Protection:

The steel is hot dip galvanized according to DS/EN ISO 1461. In addition, the bridge can also be painted in any RAL colour for uniform design with existing surrounding.

DATA SHEET

PBS-00

Design Standards

The calculations are made in accordance with the following primary standards including UK National Annex:

- EN 1990: Eurocode 0 "Basis of Structural Design"
- EN 1991-1-4: Eurocode 1 "General actions – Wind actions"
- EN 1993-1-1: Eurocode 3 "General rules and rules for buildings"
- EN 1993-1-8: Eurocode 3 "Design of joints"
- EN 1993-3-1: Eurocode 3 "Tower and masts"

Loads

The system is prepared for client specific loading.

System Components

A typical component set consist of:

- Bridge sections of up to 12m with flange connections.
- Support columns to specific height requirement with flange connections.
- Foundation components consist of casting template, imbedding bolts and plates.
- Complete set of high-grade fasteners
- Optional Fall arrest system
- Optional access bridge for service with or without railing
- Optional vertical ladder for support columns
- Optional cover

Sample Installation

Below are some images taken from a few recant installation of process bridges of ours. Please ask for references.



PROCESS BRIDGE

Product no. PBS-00
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TAGS

Process bridge
Industrial bridge
Industrial material bridge
Utility bridge
Pipe rack support
Pipe rack
Pipeline bridge
Conveyer bridge
Conveyer belt bridge
Material transportation bridge
Modular pipe bridge
Utility bridge
Sewage plant bridge