

# C E R T I F I C A T E

## MultiPlate MP200 Corrugated Steel Structures

### 1. General information.

MultiPlate structure is produced to be used like a road culverts, and it is resistant to aggressive water and ground conditions.

The structure can be used for every class of road and all kinds of live loads.

The structure fulfills the requirements of the European Standards (National Polish, Swedish, Czech, Slovakian, Lithuanian, Latvian, Estonian, Austrian and Norwegian Board of Roads and National Railway).

ViaCon Poland guarantees that the structure will perform satisfactory in the ground if proper compaction of the backfilling material around the structure is done.

ViaCon Poland gives the guarantee for the material for 3 years.

### 2. Materials

#### Steel Quality

The steel used for MP200 Corrugated Steel Structures shall be in accordance with PN-EN 10025:2000, PN-EN 10027-1:1997 and PN-EN 10113:1998. The minimum yield strength shall be 235 N/mm<sup>2</sup>.

#### Certificate for Steel

Steel used for MP200 Corrugated Steel Structures shall be delivered with certificate in accordance with PN EN 10 204.

#### Structural Plate

Steel structural plates for MP200 Corrugated Steel Structures shall conform to enclosed drawing no 1.

#### Bolts

Bolts shall conform to drawing no 2.  
Property class 8.8 in accordance with SS ISO 898-1.

#### Nuts

Nuts shall conform to drawing no 2.  
Property class 8 in accordance with SS-ISO 898-1.

### **3. Galvanizing**

#### **Structural plates**

The steel structural plates shall be galvanized in accordance with PN-EN ISO 1461:2000.

#### **Bolts and nuts**

The bolts and nuts shall be galvanized in accordance with PN-EN ISO 1461:2000.

#### **Control**

The zinc thickness shall be determined by means of a magnetic method in accordance with PN-EN ISO 2178:1998.

### **4. Tolerances.**

#### **Plates geometry:**

tolerance of length and width  $\pm 5\text{mm}$ ,  
tolerance of length and high of wave  $\pm 2\text{mm}$ ,  
tolerance of distance between holes  $\pm 3\text{mm}$ ,  
tolerance of thickness of plates in accordance with EN 10051+A1,  
tolerance of radius  $\pm 5\text{mm}$ .

#### **Structures Geometry:**

Maximum deformation during backfilling **2%** of nominal value.  
tolerance of rise, span, bottom and top length, x-inlet, x-out after assembly  
**2%** of design value.

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