

Load-Bearing Arched Sheet T45-30L-905

As one of the few manufacturers of load-bearing arched sheets on the market, we offer smooth arched profiles for curved structures. This product enables curved structures and surfaces for roofs and claddings.

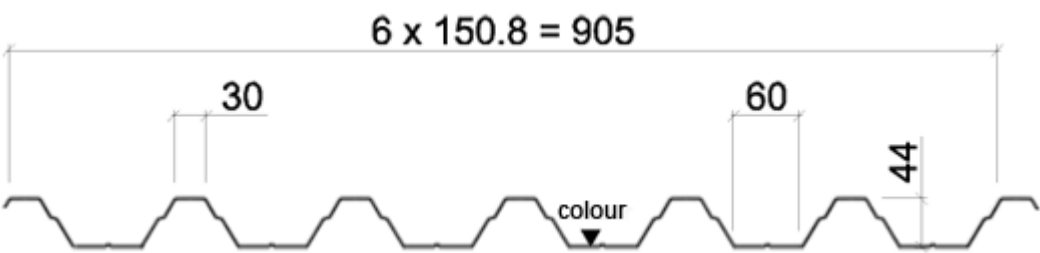
Applications:

- Canopies
- Entrances
- Spectator stands.

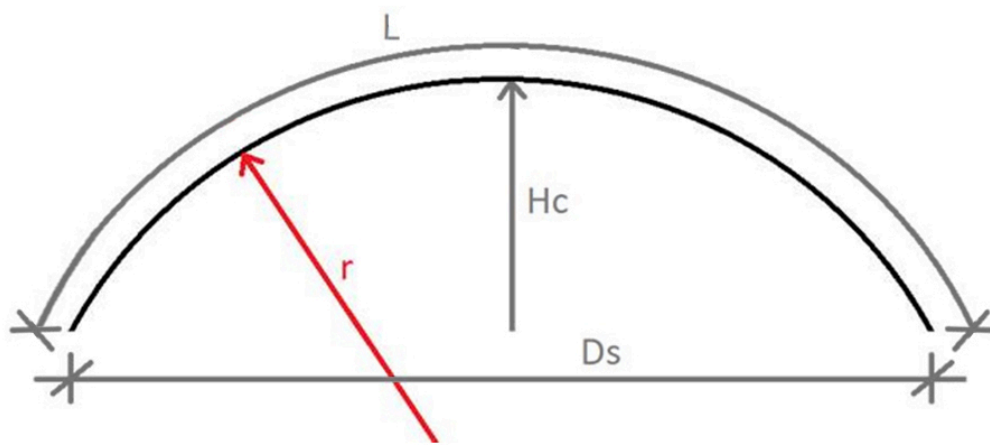


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Properties



Model name	Load-Bearing Arched Sheet T45-30L-905
Product code	T45-30L-905
Height	44 mm
Width of valley	60 mm
Width of crown	30 mm
Effective width	905 mm
Total width	950 mm
Minimum length	2800 mm
Maximum Length	15000 mm
Quality control	Factory production control according to EN 1090-1 and EN 1090-4
Tolerances	Dimensions and shape according to EN 1090-4, material thickness according to EN 10143
CE Marking	EN1090-1
Execution class	EXC1, EXC2



Material thickness (mm)	r_{\min} (mm)	L_{\max} (mm)	L_{\min} (mm)	$H_{c \max}$ (mm)
0.7	17500	15000	2800	2000
0.9 (Polyester)	6500	15000	2800	2000
0.9 (Galvanized)	5500	15000	2800	2000

For production at least two measurements are needed. So when asking prices, availability or ordering have at least one of the following measurement combinations available:

- Length (L) + radius (r)
- Length (L) + span (Ds)
- Length (L) + height (Hc)
- Span (Ds) + radius (r)
- Span (Ds) + height (Hc)

Materials

Material thickness (mm)	Steel grade	Zinc (g/m ²)	Surface treatment	Corrosion class, interior	Corrosion class, exterior	Colours	Weight (kg/m ²)
0.7	S350	Z275	Galvanized	C2	-	-	7.59
0.7	S350	Z275	Polyester 25	C3	C3	RR20	7.59
0.7	S350	Z275	GreenCoat Pural		C4	RR21, RR23, RR33	7.59

0.9	S350	Z275	Galvanized	C2	-	-	9.76
0.9	S350	Z275	Polyester 25	C3	C3	RR20	9.76

Note: The reverse sides of the colour coated sheets are painted as standard with 2-layer grey backside coating

Protection against corrosion

Environment	Coating
Interior applications in environments with corrosivity category C1, C2 according to EN ISO 12944-2 standard and A1, A2 according to EN 10169 standard	Steel sheets with zinc coating of 100 g/m ² and with polyester coating SP 15, thickness 15 µm
Interior applications in environments with corrosivity category C1, C2, C3 according to EN ISO 12944-2 standard and A1, A2, A3 according to EN 10169 standard	Steel sheets with zinc coating of 275 g/m ² and with polyester coating SP 25, thickness 25 µm

Roof sensor

Ruukki® Roof Sensor System

The purpose and aim of the Ruukki® Roof Sensor System is to measure and visualize the snow load on roofs constructed with Ruukki load bearing sheets. The system provides valuable information for safety and management decisions concerning the building. It's accessory for all Ruukki load bearing sheets and is available for new and old roofs that have access to the lower surface of the sheeting. The system is easy to install and use and there is no need for further monthly service fees.

Following corner stones are needed in the system

1. In structural design, **Ruukki's POIMU roof dimensioning program** must be used
2. Ruukki Roof Sensors location must be defined by the structural designer and sensors appropriately fitted by the installer
3. The parameters needed in system configuration are defined in POIMU program

After the sensors installation and system configuration, the system gives warnings when designers defined characteristic snow load level have been reached. Further warnings will be given well before load bearing sheeting is approaching its ultimate capacity. Warnings are given by visual light on the roof level and through user interface in web pages in a local network.

Documentation



Ruukki Roof Sensor infographics

PDF, 0.5 MB



Ruukki Roof Sensor gateway instructions

PDF, 391.1 KB



Ruukki Roof Sensor Poimu guide

PDF, 0.8 MB



Ruukki Roof Sensor users manual

PDF, 403.1 KB



Ruukki Roof Sensor installation instruction

PDF, 3.1 MB



Ruukki® Roof Sensor positioning table

DOCX, 94.8 KB



Ruukki Roof Sensor infographic

PDF, 0.5 MB

Technical documents

Here you can find all technical documents related to Ruukki's load-bearing sheets. Documents are organised by document type. Click to enter document library.

**Accessory
documents**



Detail drawings



**Installation
instructions**



**Maintenance
instructions**



Certificates and approvals

Here you can find all certificates and approvals related to Ruukki's load-bearing sheets. Documents are organised by document type. Click to enter document library.

**Declaration of
performance**



**Environmental
product declaration**

