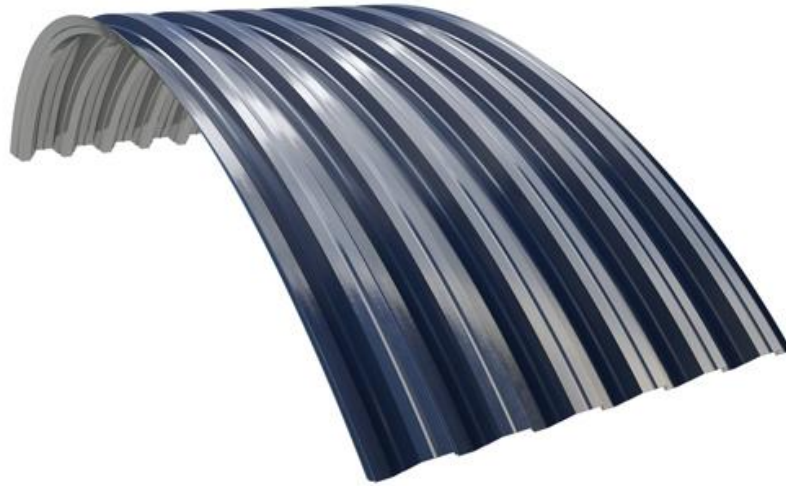


LOAD-BEARING ARCHED SHEET T45-30L-905



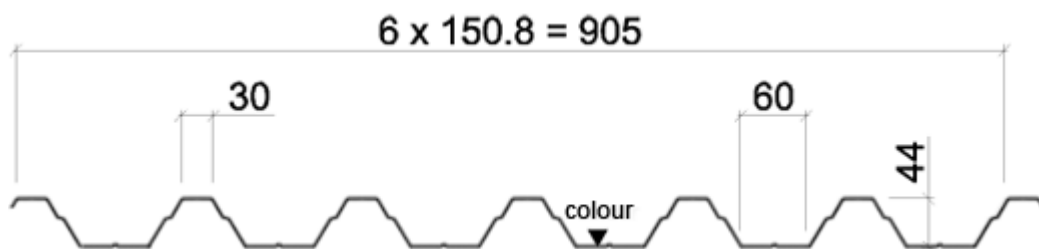
As one of the few manufacturers of load-bearing arched sheets on the market, we offer smooth arched profiles for curved structures. This product enables curved structures and surfaces for roofs and claddings.

Applications:

- Canopies
- Entrances
- Spectator stands.

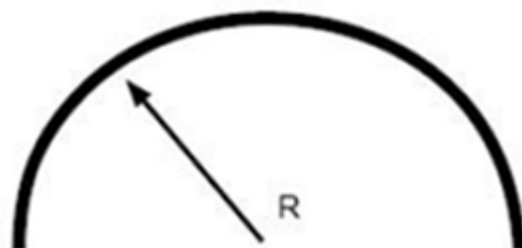
The information on our website is accurate to the best of our knowledge and understanding. Although every effort has been made to ensure accuracy, the company cannot accept any responsibility for any direct or indirect damages resulting from possible errors or incorrect application of the information of this publication. We reserve the right to make changes.

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
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

MINIMUM RADIUS



Material thickness (mm)	Rmin (mm)
0.7	17500
0.9	5500

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	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

INTRODUCTION TO 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



02 APR, 2019

Ruukki Roof Sensor users guide

PDF, 218.54 KB



02 APR, 2019

Ruukki Roof Sensor installation instruction

PDF, 2.87 MB



27 NOV, 2018

Ruukki Roof Sensor infographic

PDF, 544.66 KB



27 NOV, 2018

Ruukki Roof Sensor positioning table

DOCX, 94.76 KB

ACCESSORIES

Accessories for load bearing sheets include e.g. flashings, fasteners, gaskets and sealing flanges. These accessories ensure fast assembly, fastening reliability, joint tightness.



15 SEP, 2016

Profiled sheets and purlins accessories

PDF, 4.80 MB

DESIGN TOOLS

To make both architectural and structural design work easier, with accurate product information in 3D form, we offers a selection of CAD / BIM -objects and software tools, to be downloaded from the Software Toolbox portal.

READY MODELLED BIM OBJECTS

[Download objects for ArchiCAD](#)

[Download objects for Revit](#)

DIMENSIONING SOFTWARE POIMU

We offer excellent dimensioning software, Poimu, which allows you to optimise product choice according to the Eurocode. Simply by defining some basic input data you can select a load-bearing sheet for their needs from Ruukki's selection. This quick optimisation tool covers 1-, 2-span and continuous structures and gives the exact solution as to what sheet should be used, as well as its length.

[Download Poimu](#)

DETAIL DRAWING (.DWG)



06 MAY, 2016

Ruukki load-bearing sheet drawings

ZIP, 9.06 MB

DETAIL DRAWING (.PDF)



06 MAY, 2016

Ruukki_load-bearing_sheet-drawings

PDF, 7.32 MB

INSTRUCTIONS

ASSEMBLY INSTRUCTIONS

Assembly instructions document includes information about:

- Packing
- Transportation and unloading
- Storing
- Assembling.



06 MAY, 2016

Ruukki-user-manual-for-lifting-tool

PDF, 1.98 MB



06 MAY, 2016

Ruukki-load-bearing-sheet-anticondence-storage-instructions

PDF, 232.57 KB



06 MAY, 2016

Ruukki-load-bearing-profiled-sheet-installation-instructions
PDF, 3.10 MB

CERTIFICATES & APPROVALS

DECLARATION OF PERFORMANCE



11 MAY, 2016

Declaration of Performance 12/LBS/VIM - Load bearing products
PDF, 494.06 KB