

ARCHED ROOFS

TECHNICAL INFORMATION

Principle:

Arched roof as a metallic free-span system without need for additional supporting structures.

Material:

Arched trapezoidal zinc-coated steel sections which are not folded but produced using a roll-bending technique.

Protection against corrosion:

Coil-coating with a choice from a range of various colour shades.

Fixing technique:

Approved stainless steel fasteners or special connectors in the area of the supports.

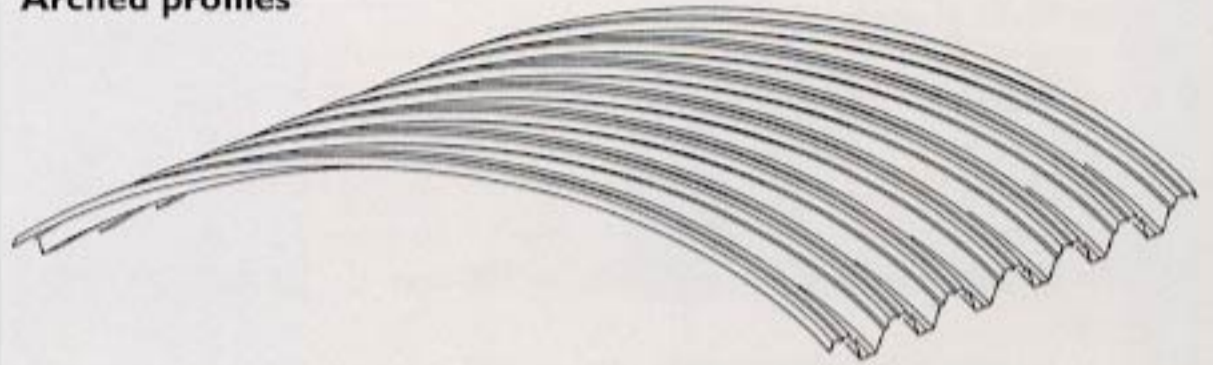
Application:

As a free-span arched structure either as a non-insulated single-skin roof or as a double-skin roof with thermal insulation. Double-skin system with spans up to 20 m.

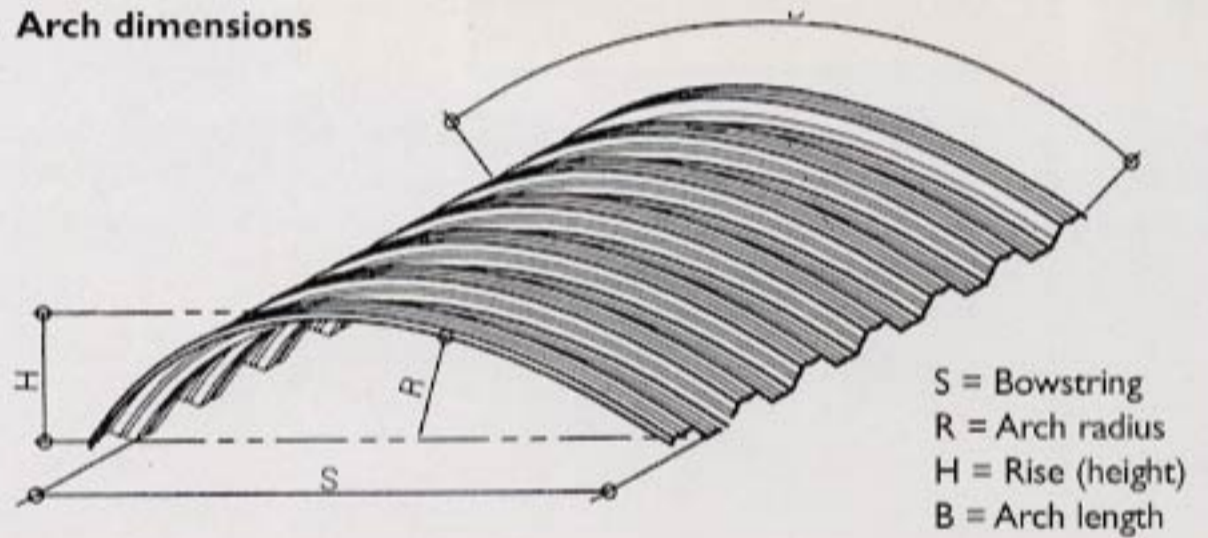
Minimum radius = 3000 mm

Maximum radius = 12000 mm

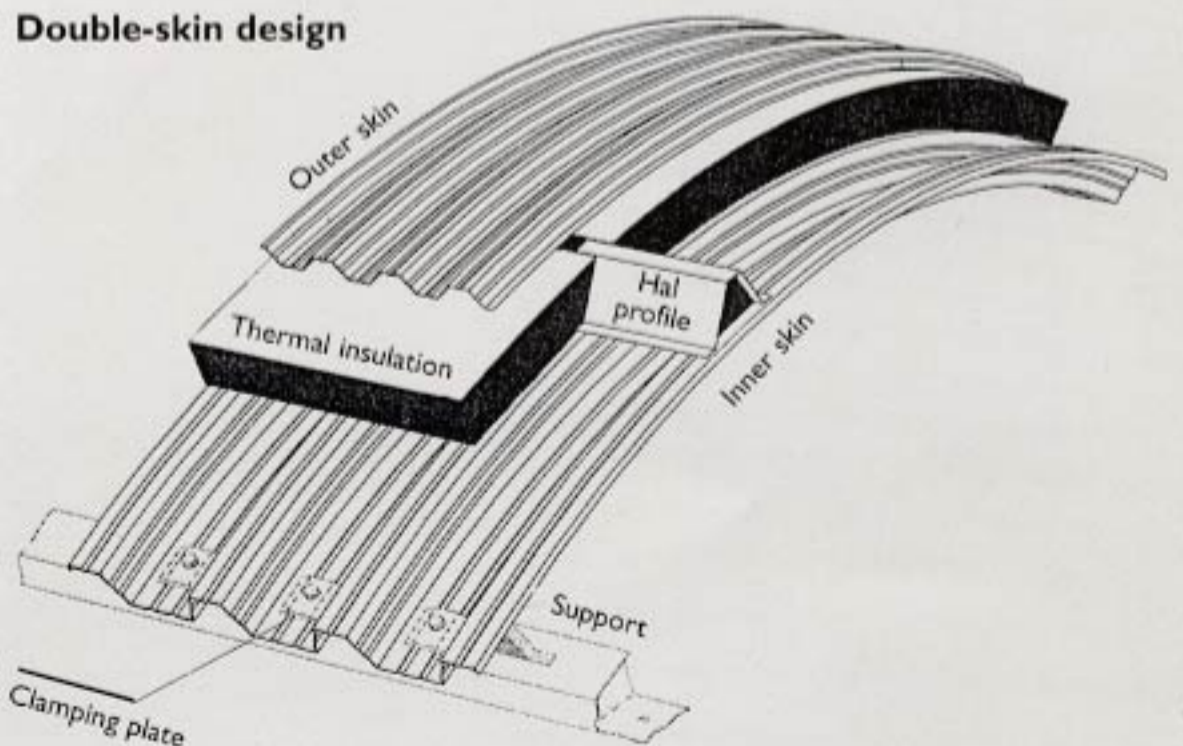
Arched profiles



Arch dimensions

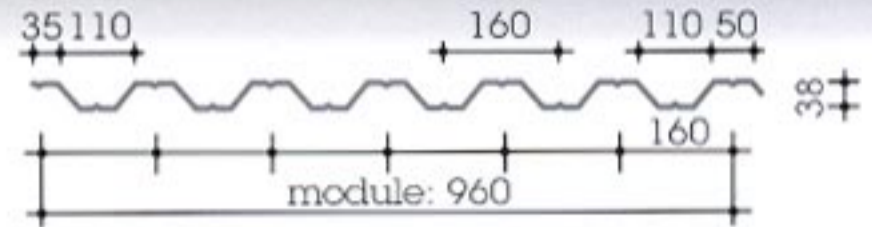


Double-skin design



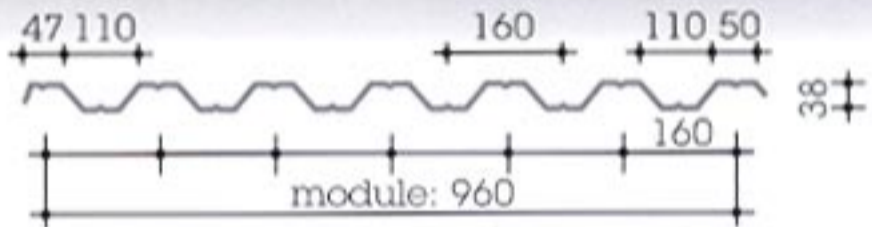
HB 41.960/6R

Material thickness mm	Radius m	Weight kg/m ²
0,75	≥ 8,00	7,81
0,88	≥ 6,00	9,17
1,00	≥ 4,50	10,42
1,25	≥ 4,00	13,02
1,50	≥ 4,00	15,63



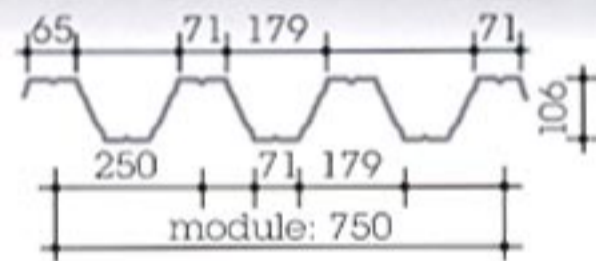
HT 41.960/6R

Material thickness mm	Radius m	Weight kg/m ²
0,75	≥ 8,00	7,81
0,88	≥ 6,00	9,17
1,00	≥ 4,50	10,42
1,25	≥ 4,00	13,02
1,50	≥ 4,00	15,63



HT 107.750/3R

Material thickness mm	Radius m	Weight kg/m ²
0,75	≥ 50,00	10,00
0,88	≥ 28,00	11,73
1,00	≥ 15,00	13,33
1,25	≥ 11,00	16,67
1,50	≥ 10,00	20,00



Determination of the type of profile:

The type of profile depends on the desired radius, the span of the arch and the anticipated load.

Our special service:

Preliminary design using our programme for structural analysis which leads to the selection of the most cost-effective profile.

The best results in terms of structural analysis are achieved when the dimensions of the span and radius of the arch are identical.