

Technical Guidelines

FOAMGLAS®



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General criteria for FOAMGLAS® application

- FOAMGLAS® application should preferably take place when the ambient air temperature and temperature of the substrate are above 5° C.
- All expansion and movement joints should be continued through the structure.

For curved roofs the dimensions of the FOAMGLAS®-slabs will be adapted in function of the radius of the curve.

Radius of the curve (m)	Dimension of the FOAMGLAS® slabs (mm)
> 12,6	600 x 450 (standard slabs)
12,6 to 5,6	300 x 450
5,6 to 3,5	225 x 600
3,5 to 1,5	150 x 450

Criteria for the steeldeck

Thickness of the metal:	Minimum 0,7 mm
Trough width:	Maximum 60% of the Total surface.
Minimum insulation thickness:	In function of the trough width (L1) 0 mm < L1 ≤ 80 mm = thickness 50 mm (minimum) 80 mm < L1 ≤ 110 mm = thickness 60 mm 110 mm < L1 ≤ 140 mm = thickness 70 mm 140 mm < L1 ≤ 180 mm = thickness 80 mm
Maximum deflection: (under maximum load)	1/240 of the span if the height of the corrugations is less than 90 mm . 1/300 of the span if the height of the corrugations is equal or more than 90 mm is . (It is measured without taking into account the stiffening provided by the FOAMGLAS®).
Fastening of the sheets:	The metal sheets are fastened in the troughs of the corrugations to the purlins following the guidelines of the manufacturer.

On top of the galvanized metal sheet a spirit-based primer (cutback) coating will be applied (consumption: +/- 150 gr/m²). On pre-coated sheets it is not necessary to apply a primer coat.

Criteria for the continuous supports

- The substrate shall be clean, dry and free of any irregularities. Irregularities of the substrate should not exceed 3 mm over 600 mm or 5 mm over 2 m.
- In case of concrete substrate and if required, an appropriate levelling screed shall be applied.
- If composed of pre-cast concrete beams, irregularities must not exceed 3 mm between each section.