

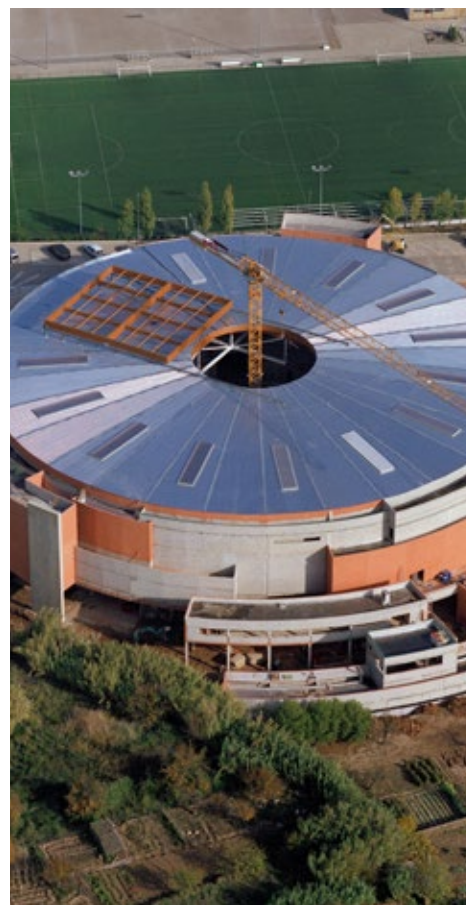


TZ-56

ROOF PROFILED STEEL SHEETING



- High quality, cold-formed trapezoidal profiled steel sheeting, made of certified structural steel.
- Metal roof cladding for industrial, commercial and sports facilities buildings.
- CE marked product according to EN 14782 and EN 1090 standards.
- Useful width with overlap of 1.1 m and manufacturing lengths up to 14.9m.
- Spans up to 5.5m and loads up to 408 daN/m² in single span.



TECZONE

TZ-56 Roof profiled steel sheeting

DESCRIPTION AND APPLICATIONS

High-quality cold-formed trapezoidal steel profiled sheeting.

Manufacturing allowance for curved solutions.

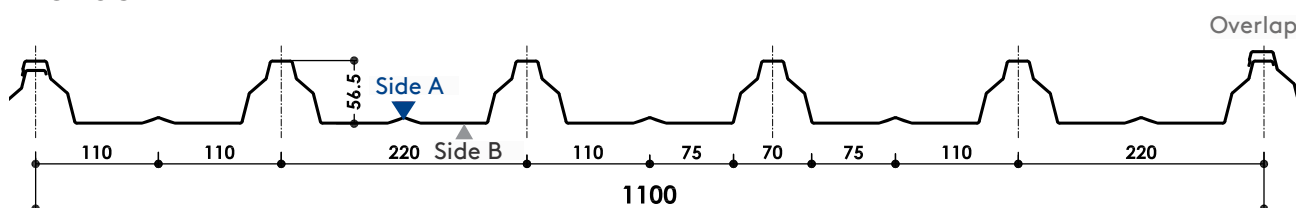
Suitable for acoustic control systems, with several possibilities of perforation patterns.

Metallic roof enclosures for industrial, commercial and sports facilities buildings.

Depending on the configuration, spans between supports up to 5.5m, and loads up to 408 daN/m² can be attained in single span.



PRODUCT DATA



Useful width		1,100 mm
Maximum manufacturing length		14.9 m (>13.5 m requires special transport)
Steel grade		Standard S320GD (other steel grades available on demand)
Thicknesses		0.7 /1.0 /1.2 mm
Coatings	Standard	Galvanised Z275 Galvanised & 25 microns lacquered in silicone polyester
	Special	HD, HDS, HDX, PVDF, PET

Steel sheet Certifications

Steel sheet to EN 10346 (galvanised) and to EN 10169 (organic coatings).

TZ-56 Profiled sheet Certifications

CE marking according to EN 14782:2006 and EN 1090 -1:2009+A1:2011 standards.












Roof profiled steel sheeting **TZ-56**

PROFILED SHEET TECHNICAL DATA

THICKNESS	SELF WEIGHT		SECOND MOMENT OF AREA	RESISTANT MODULUS
(mm)	(kg/ml)	(kg/m ²)	I (cm ⁴ /m)	Wmin (cm ³ /m)
0.7	8.20	7.46	36.141	9.041
1.0	11.65	10.59	46.269	11.556
1.2	13.96	12.69	51.410	12.830

MAXIMUM ALLOWABLE PRESSURE LOADS (daN/m²)

		SPAN BETWEEN SUPPORTS (m)						
thk (mm)	SUPPORTS	2.50	3.00	3.50	4.00	4.50	5.00	5.50
0.7		243	138	84	54	36	24	17
		593	341	212	140	96	68	50
		465	267	166	109	74	52	38
1.0		343	195	119	76	51	34	23
		838	481	300	198	136	96	70
		657	377	234	153	105	74	53
1.2		408	232	142	91	60	41	28
		999	573	357	235	162	115	83
		783	449	278	183	125	88	63

NOTES:

1 daN /m² ≈ 1 kp/m²

- The values listed in the table are unfactored allowable loads, which should be compared with the sum of characteristic loads (without factoring) in each project.
- Tables calculated for a maximum deflection of L /150, where L is the span (distance between purlins).
- Tables valid for pre-design only. The designer must carry out the structural calculation according to the relevant standards in each country.
- For resistance verification according to EN 1993-1-3, or for other load cases, please contact our technical department. Kingspan | Teczone expressly declines any responsibility derived from the use of these tables.



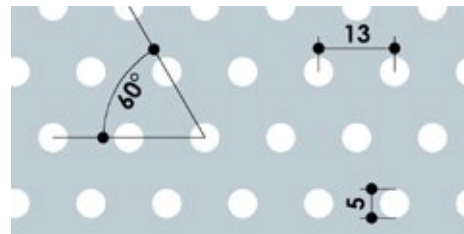
TZ-56 Roof profiled steel sheeting

PERFORATIONS FOR ACOUSTIC CONTROL

Kingspan can supply this profile with **uniform perforation**, for example type R5T13 pattern, with Ø5mm holes, 13mm between centres, staggered at 60°. Perforated area of 14% of total surface.

Absorption coefficient $\alpha_w = 0.85$ according to EN ISO 354:2004 for a in-situ sandwich system.

Other types of uniform perforation are also available.



AVAILABLE COATINGS

Teczone has a wide range of high-performance, state-of-the-art coatings, selectable according to the type of installation environment, in order to guarantee the maximum durability of the TZ profiles:

	OUTDOOR ENVIRONMENT								INDOOR ENVIRONMENT			
	RURAL WITHOUT POLLUTION	URBAN / INDUSTRIAL		MARINE			RESISTANCE		NON-AGGRESSIVE ENVIRONMENTS		AGGRESSIVE AND/OR VERY HUMID ENVIRON- MENTS	RESISTANCE
		Moderate	Severe	Between 3 - 20 km	< 3km ⁽¹⁾	Mixed	Outdoor Corrosion Category	UV	Low humidity	Medium humidity		
Polyester 25μ	✓	✓	!	!	✗	✗	!	!	✓	✓	Ai3 ⁽²⁾	CPI3
HDS 35μ	✓	✓	!	✓	!	!	RC4	RUV4	✓	✓	Ai3	CPI4
PVDF 35μ	✓	✓	!	✓	!	!	RC4	RUV4	✓	✓	Ai3	CPI4
HDX 55μ	✓	✓	✓	✓	✓	!	RC5	RUV4	✓	✓	Ai3	CPI4
PET 50μ	✗	✗	✗	✗	✗	✗	NA	NA	✓	✓	Ai5	CPI5

✓ Suitable coating

✗ Unsuitable coating

NA Not applicable

! Check with Teczone

(1) Please contact us for distances <300m.

(2) Check conditions.

Not all coatings are available for all sheet thicknesses and colors.

Consult Teczone if you need any coating not included in the table.

QUALITY AND SAFETY

Both steel and its metallic or organic coatings are free from SVHC ("Substances of Very High Concern"), in accordance with the requirements of European regulation REACH.

Our Quality Management (ISO 9001), Environmental Management (ISO 14001) and Occupational Health and Safety (ISO 45001) systems are certified by AENOR and IQNet.

Teczone Española S.A.U. reserves the right to modify the contents of this document without any prior warning. Every effort has been made to ensure that the content of this publication is accurate, but Teczone Española S.A.U. and its affiliated companies are not responsible for errors or information that may be misleading. Suggestions regarding the final use or application of the products or work methods are merely informative and Teczone Española S.A.U. and its affiliates do not accept any responsibility in this regard.