



TZ-56 DECK

PROFILED STEEL SHEETING FOR FLAT ROOFS



- High quality, cold-formed trapezoidal profiled steel sheeting, made of certified structural steel.
- Metal cladding for flat roof in industrial, commercial and sports facilities buildings.
- CE marked product according to EN 14782 and EN 1090 standards.
- Useful width with overlap of 1.0 m and manufacturing lengths up to 14.9m.
- New design, optimised for high structural efficiency, which allows larger spans between roof purlins.



TECZONE

TZ-56 DECK Roof profiled steel sheeting

DESCRIPTION AND APPLICATIONS

High-quality cold-formed trapezoidal steel profiled sheeting.

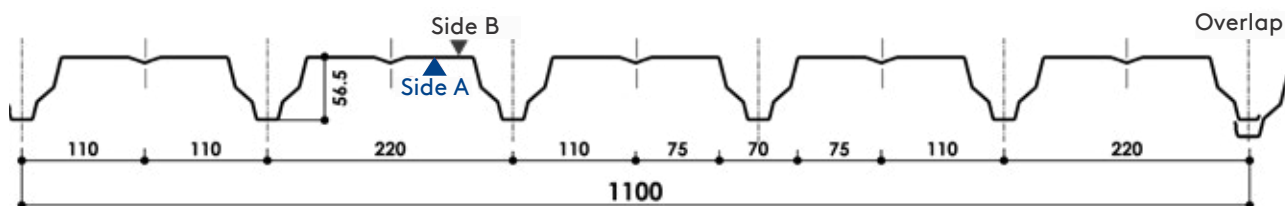
Due to its design and characteristics, it is especially suitable for flat roofs for industrial, commercial and sports facilities.

Suitable for acoustic control systems, with Kingspan's R5T13 perforation pattern.

Depending on the configuration, spans between supports up to 5.5 m, and loads up to 346 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	0.8	1.0	1.2	mm
Selfweight	7.46	8.47	10.59	12.69	kg/m ²
	8.20	9.32	11.65	13.96	kg/ml
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 Deck Profiled sheet Certifications

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















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PROFILED SHEET TECHNICAL DATA

THICKNESS	SELFWEIGHT		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
0.8	9.32	8.47	41.128	10.280
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)

		DISTANCE BETWEEN SUPPORTS (m)						
thk (mm)	SUPPORTS	2.50	3.00	3.50	4.00	4.50	5.00	5.50
0.7		188	118	76	50	34	23	16
		422	243	169	119	86	63	46
		330	202	138	95	68	49	36
0.8		219	136	87	58	39	27	18
		498	285	196	138	98	72	53
		390	236	159	110	78	56	41
1.0		282	172	110	72	49	33	23
		656	375	251	175	124	90	66
		514	304	203	139	97	70	51
1.2		346	209	132	87	58	40	27
		819	469	308	212	150	108	80
		642	375	247	168	117	84	61

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.



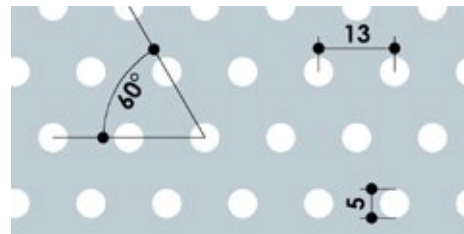
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PERFORATIONS FOR ACOUSTIC CONTROL

Kingspan | Teczone 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

Kingspan | 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.

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