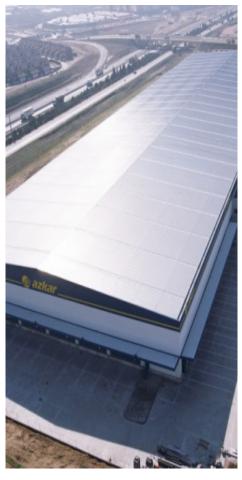


TZ-30

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 1.10 m and manufacturing lenghts up to 14.9m.
- Spans up to 3.0m and loads up to 880 daN/m² in single span.









TZ-30 Roof profiled steel sheeting

DESCRIPTION AND APPLICATIONS

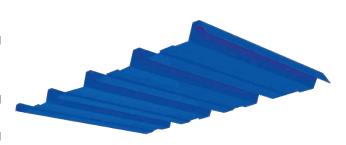
High-quality cold-formed trapezoidal steel profiled sheeting.

Manufacturing allowance for curved solutions.

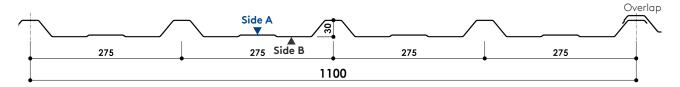
Suitable for acoustic control systems, with several possibilities of perforation patterns.

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

Depending on the configuration, spans beween supports up to 3.0 m. and loads up to 880 daN/m^2 can be attained in single span.



PRODUCT DATA



Useful width		1,100 mm					
Maximum manufacturing lenght		14.9 m (>13.5 m requires special transport)					
Steel grade		Standard S220GD (other steel grades available on demand)					
Thicknesses		0.5 / 0.6 / 0.7 / 0.8 / 1.0 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-30 Profiled sheet Certifications

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





Roof profiled steel sheeting TZ-30

PROFILED SHEET TECHNICAL DATA

THICKNESS	SELF WI	EIGHT	SECOND MOMENT OF AREA	RESISTANT MODULUS	BENDING MOMENT		
(mm)	(kg/ml)	(kg/m²)	I (cm⁴/m)	Wmin (cm³/m)	Mf (kgf·m)		
0.5	4.90	4.46	6.145	2.781	44.50		
0.6	5.88	5.35	7.531	3.418	54.69		
0.7	6.86	6.24	8.784	3.977	90.28		
0.8	7.85	7.13	10.036	4.532	102.88		
1.0	9.81	8.92	12.535	5.633	127.87		

MAXIMUM ALLOWABLE PRESSURE LOADS (daN/m²)

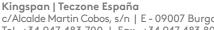
SPAN BETWEEN SUPPORTS (m)

th (mm)	SUPPORTS	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
0.5	\triangle	393	200	114	71	49	34	25	18	13
	\triangle \triangle	950	486	280	175	116	81	59	45	35
		747	381	219	137	91	63	47	35	27
	\triangle	510	260	149	92	61	43	30	22	16
0.6	\triangle \triangle \triangle	1234	632	364	228	151	105	76	57	43
	\triangle \triangle \triangle	970	496	286	178	118	82	60	44	33
	\triangle	612	312	178	111	73	50	35	25	18
0.7	\triangle \triangle	1480	758	437	273	181	126	91	67	51
		1163	595	343	214	141	98	71	52	39
	\triangle	714	364	208	129	85	58	40	29	21
0.8	\triangle \triangle	1726	884	510	319	212	147	106	78	59
		1357	694	400	250	165	114	82	60	45
	Δ	880	448	256	159	104	71	49	35	25
1.0	\triangle \triangle	2127	1090	629	393	261	181	130	96	72
	\triangle \triangle \triangle	1672	856	493	308	203	140	101	74	55

NOTES: $1 daN/m^2 \approx 1 kp/m^2$

- 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/200, 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-30 Roof profiled steel sheeting

Steel cladding TZ



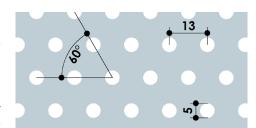
PERFORATIONS FOR ACOUSTIC CONTROL

Kingspan | Teczone can supply this profile with **uniform perforation**, for example type R5T13 pattern, with \emptyset 5mm holes, 13mm between centres, staggered at 60°. Perforated area of 14% of total surface.

Absortion coefficient $\alpha_{\rm w}$ = 0.85 according to EN ISO 354:2004 for a insitu sandwich system. Usual stock in 0.6mm White 1006. Request delivery term for other possibilities. Other types of uniform perforation are also available

TZ Pattern, perforated-ripped with a 36% area embedded in the profile lower flange. Represents a reduction of 7% of allowable loads with respect to the unperforated profile.

Absortion coefficient $\alpha_{\rm w}$ = 0.50 to EN ISO 354:2004 for in-situ sandwich system. Delivery time similar to that of the unperforated profile.





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			
	DUDAL	URBAN / INDUSTRIAL RURAL		MARINE		RESISTANCE		NON-AGRESSIVE ENVIRONMENTS		AGGRESSIVE AND/OR	RESISTANCE		
	WITHOUT	Moderate	Severe	Between 3-20 km	< 3km ⁽¹⁾	Mixed	Outdoor Corrossion Category	UV	Low humidity	Medium humidity	VERY HUMID ENVIRON- MENTS	Indoor Corrosion Category	
Polyester 25µ	V	\checkmark	į	į	×	X	!	!	V	V	Ai3 ⁽²⁾	CPI3	
HDS 35µ	V	V	!	V	!	!	RC4	RUV4	V	V	Ai3	CPI4	
PVDF 35μ	V	V	!	V	!	!	RC4	RUV4	V	\checkmark	Ai3	CPI4	
HDX 55µ	V	$\overline{\checkmark}$	V	V	V	!	RC5	RUV4	V	\checkmark	Ai3	CPI4	
PET 50μ	×	×	×	×	X	X	NA	NA	V	\checkmark	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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