

TZ-16

FACADE PROFILED STEEL SHEETING



- High quality, cold-formed trapezoidal profiled steel sheeting, made of certified structural steel.
- Metal facade cladding for industrial, commercial and sports facilities buildings.
- CE marked product according to EN 14782 and EN 1090 standards.
- Useful width with overlap of 1.05 m and manufacturing lengths up to 14.9m.
- A wide range of available coatings that ensure durability according to the environment.

CE


Kingspan

TECZONE

TZ-16 Fachade profiled steel sheeting

DESCRIPTION AND APPLICATIONS

High-quality cold-formed trapezoidal steel profiled sheeting.

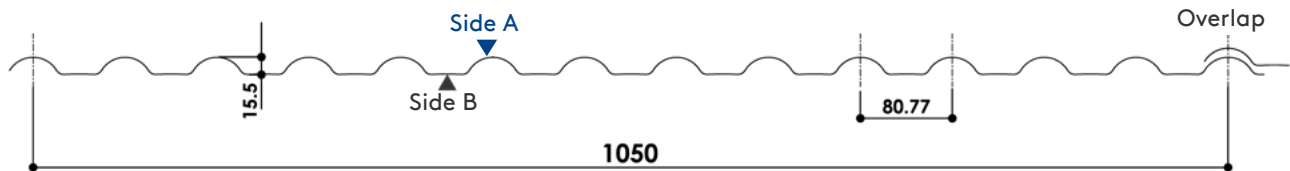
Suitable for acoustic control systems, with Kingspan's R5T13 perforation pattern.

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

A wide range of available coatings that ensure durability according to the environment.



PRODUCT DATA



Useful width	1,050 mm
Maximum manufacturing length	14.9 m (>13.5 m requires special transport)
Steel grade	Standard S220GD (other steel grades available on demand)
Thicknesses	0.6 / 0.7 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-16 Profiled sheet Certifications

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



REACTION TO FIRE

The profile has the reaction to fire classification A1 according to EN 13501-1:2018 (Euroclasses).

ENVIRONMENTAL PRODUCT DECLARATION

The TZ-16 profile has an environmental product declaration in accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021.









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PROFILED SHEET TECHNICAL DATA

THICKNESS	SELF WEIGHT		SECOND MOMENT OF AREA	RESISTANT MODULUS	BENDING MOMENT
(mm)	(kg/ml)	(kg/m ²)	I (cm ⁴ /m)	Wmin (cm ³ /m)	Mf (kgf·m)
0.6	5.88	5.60	2.486	2.690	43.04
0.7	6.86	6.53	2.900	3.125	50.00

MAXIMUM ALLOWABLE PRESSURE LOADS (daN/m²)

th (mm)	SUPPORTS	SPAN BETWEEN SUPPORTS (m)					
		1.00	1.25	1.50	1.75	2.00	2.25
0.6		200	103	59	37	25	18
		386	247	143	90	60	42
		378	194	112	71	47	33
0.7		234	120	69	44	29	21
		448	287	167	105	70	49
		442	226	131	82	55	39

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 / 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.

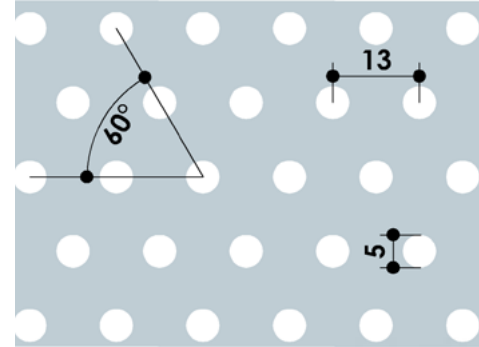
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PERFORATIONS FOR ACOUSTIC CONTROL

Kingspan | Teczone can supply this profile with **uniform perforation**, for example type R5T13 pattern, with \varnothing 5mm holes, 13mm between centres, staggered at 60° . Perforated area of 14% of total surface. Absorption coefficient $a_w = 0.85$ according to EN ISO 354:2004 for a in-situ sandwich system.

Usual stock in 0.6mm White 1006, request delivery term for other possibilities. 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 ENVIRONMENTS	RESISTANCE
		Moderate	Severe	Between 3 - 20 km	< 3km ⁽¹⁾	Mixed	Outdoor Corrosion Category	UV	Low humidity	Medium humidity		
Polyester 25 μ m	☑	☑	!	!	☒	☒	!	!	☑	☒	Ai3 ⁽²⁾	CPi2
HDS 35 μ m	☑	☑	!	☑	!	!	RC4	RUV4	☑	☑	Ai3	CPi4
PVDF 35 μ m	☑	☑	!	☑	!	!	RC4	RUV4	☑	☑	Ai3	CPi4
HDX 55 μ m	☑	☑	☑	☑	☑	!	RC5	RUV4	☑	☑	Ai3	CPi4
PET 50 μ m	☒	☒	☒	☒	☒	☒	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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