Protected by Kingspan WARRANTY

TZ-32

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 lenghts up to 14.9m.
- Spans up to 3.0m and loads up to 826 daN/m^2 in single span.

CE

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TZ-32 Facade profiled steel sheeting

DESCRIPTION AND APPLICATIONS

High-quality cold-formed trapezoidal steel profiled sheeting.

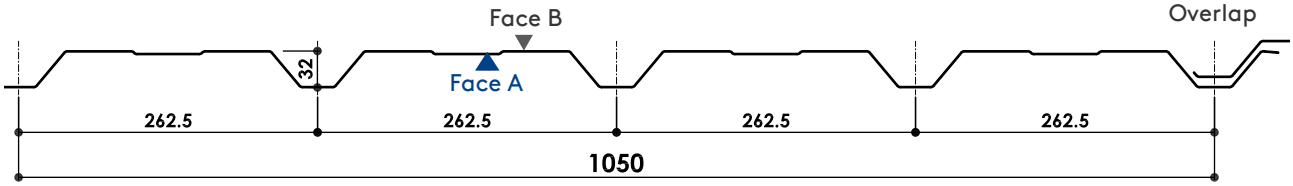
Manufacturing allowance for curved solutions.

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

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

Depending on the configuration, spans beween supports up to 3.0 m and loads up to 826 daN/m² can be attained in single span.

PRODUCT DATA



Useful width		1,050 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-32 Profiled sheet Certifications

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

CE

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PROFILED SHEET TECHNICAL DATA

THICKNESS	SELF WEIGHT		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	4.67	6.679	2.758	44.13
0.6	5.88	5.60	8.206	3.403	54.45
0.7	6.86	6.54	9.714	4.032	91.53
0.8	7.85	7.47	11.263	4.669	105.99
1.0	9.81	9.34	13.876	5.713	129.69

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		353	182	106	73	55	42	32	25	20
		848	437	254	160	108	79	64	52	42
		667	344	200	126	85	68	54	43	35
0.6		443	228	133	89	67	51	39	30	24
		1063	548	318	201	135	97	78	63	51
		837	431	250	158	106	82	65	52	42
0.7		535	276	160	106	79	59	45	35	28
		1287	663	385	243	163	116	92	74	60
		1013	521	303	191	128	98	77	61	49
0.8		631	325	189	123	91	68	52	40	32
		1516	781	453	286	192	135	107	86	69
		1193	614	357	225	151	113	89	70	56
1.0		826	426	247	158	115	86	65	50	39
		1985	1022	594	375	251	177	136	108	87
		1562	805	467	295	198	145	112	88	70

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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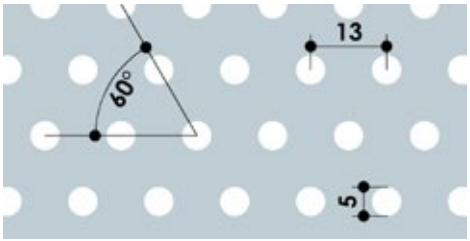
PERFORATIONS FOR ACOUSTIC CONTROL

Uniform perforation. For example type R5T13 pattern, with Ø 5mm holes, 13mm between centres, staggered at 60°. Perforated area of 14% of total surface. Absortion coefficient α_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.

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 α_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			
	RURAL WITHOUT POLLUTION	URBAN / INDUSTRIAL		MARINE			RESISTANCE		NON-AGRESSIVE ENVIRONMENTS		AGGRESSIVE AND/OR VERY HUMID ENVIRON-MENTS	RESISTANCE
		Moderate	Severe	Between 3 - 20 km	< 3km (1)	Mixed	Outdoor Corrossion Category	UV	Low humidity	Medium humidity		Indoor Corrosion Category
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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