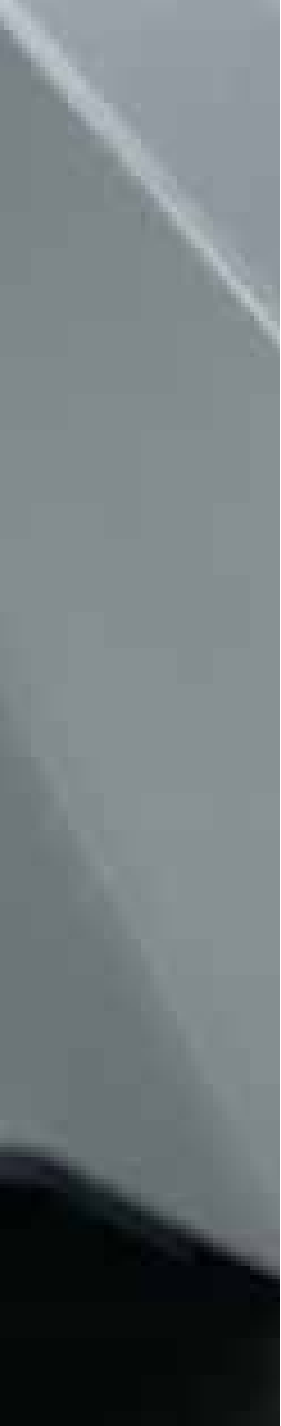


tek
profiles



teknorooft.



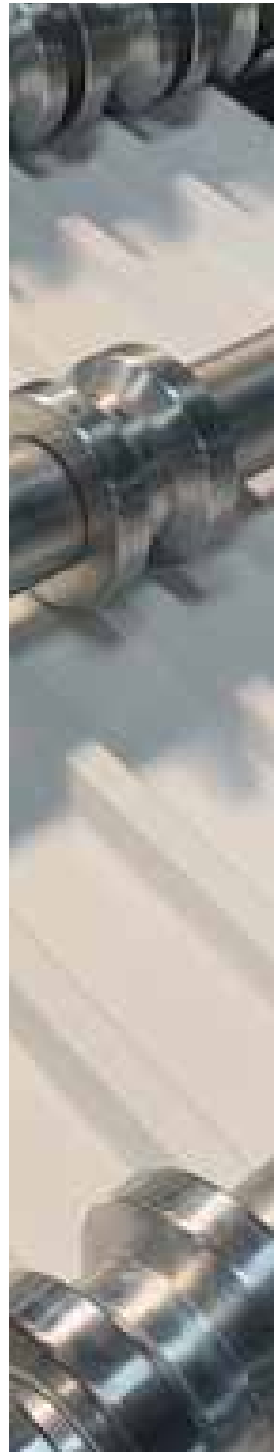
we manufacture an extensive range of aluminium and steel profiled cladding systems for use in a variety of roof, wall and lining applications.

this range of trapezoidal profiles provide customers of all types with an unbeatable choice of cost effective solutions to meet most performance specifications.

our profiles are manufactured using high quality raw materials of varying thicknesses to include galvanized steel, colour coated steels and aluminium. an extensive range of colours and finishes are available.

sheets can be ordered to suit your needs such as cut to length, crimping and lipping. teknoroof are also able to offer closure pieces, bespoke flashings and mitred units.

our sheets are used within either single skin or double skin built up systems, also utilizing our bar and bracket fixing system, korogrid.





tek30

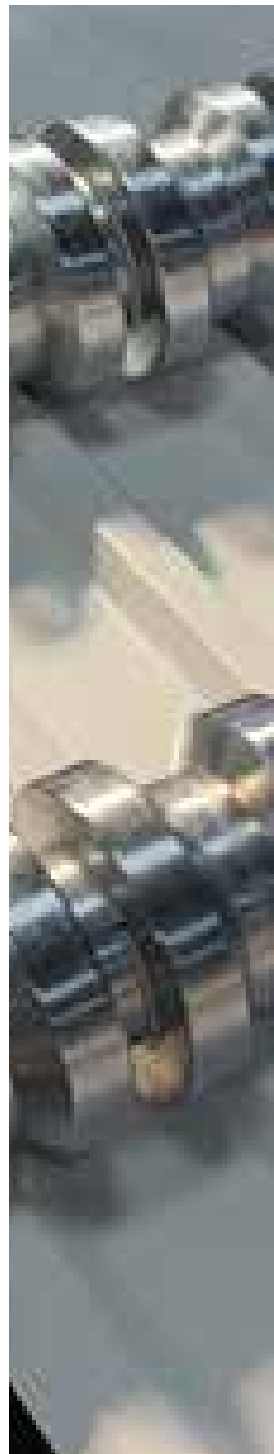
...is a general purpose box profile sheet, ideally suited for installation over purlins or cladding rails. the 1000mm cover width provides an extremely cost effective solution and can be supplied in varying lap details depending on the application.

in a vertical cladding application with outward facing broad flat pan, a striking visual effect is achieved.

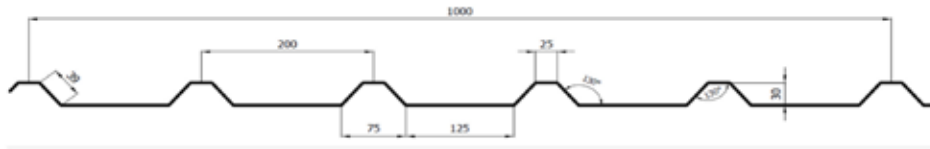
tek30 offers a 200mm pitch with a 30mm profile height and no unsightly swages in the pan.

the versatility of this profile means that there are a myriad of possibilities. below is a list of some of the most common applications:

- single skin over purlins
- built-up insulated roof and wall cladding
- over roofing
- carrier panels for our lokfold standing seam
- shallow metal decking for flat roofs
- temporary and permanent fence panels



30-200-1000 S250 load tables



profile details

Material	Steel
Grade	S250
Nominal Gauge	0.7mm
Profile weight	6.71kg/m ²
Tolerance	BS EN 508-2:2019
Load factor	1.5
Minimum roof pitch	4°

Cover width	1000mm
Pitch	200mm
Depth	30mm
Crown width	25mm
Valley width	125mm
Rib width	75mm

table 1 - permissible (negative) wind uplift load in kn/m²
deflection criteria: L/150

Span Condition	Span (mm)					
	1000	1200	1400	1600	1800	2000
Single	5.24	3.64	2.67	1.96	1.38	1.00
Double	3.58	2.72	2.15	1.74	1.44	1.21
Multi	4.25	3.25	2.57	2.09	1.74	1.47

table 2 - permissible (imposed) downward load in kn/m²
deflection criteria: L/200

Span Condition	Span (mm)					
	1000	1200	1400	1600	1800	2000
Single	6.06	4.21	2.88	1.93	1.36	0.99
Double	3.33	2.52	1.98	1.59	1.31	1.10
Multi	3.97	3.01	2.37	1.92	1.59	1.34

all tables have been produced in accordance with BS EN 1993-1:2006

further steel properties obtained from BS EN 1993-1-2005

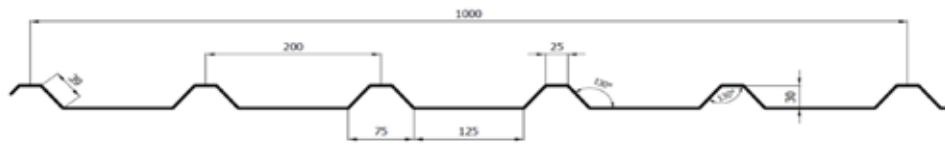
limitations on deflections were from BS 5427:2016, Table 10

a load factor of 1.5 has been applied, consistent with the variable load characteristic design approach in the Eurocodes

table values must include self weight of the decking system used in design

permissible loads in excess of 2m are available on request

30-200-1000 S280 load tables



Profile details

Material	Steel
Grade	S280
Nominal Gauge	0.7mm
Profile weight	6.71kg/m ²
Tolerance	BS EN 508-2:2019
Load factor	1.5
Minimum roof pitch	4°

Cover width	1000mm
Pitch	200mm
Depth	30mm
Crown width	25mm
Valley width	125mm
Rib width	75mm

Table 1 - Permissible (negative) wind uplift load in kN/m²

Deflection Criteria: L/150

Span Condition	Span (mm)					
	1000	1200	1400	1600	1800	2000
Single	5.83	4.05	2.90	1.94	1.36	0.99
Double	3.86	2.94	2.33	1.89	1.57	1.32
Multi	4.58	3.51	2.78	2.26	1.88	1.59

Table 2 - Permissible (imposed) downward load in kN/m²

Deflection Criteria: L/200

Span Condition	Span (mm)					
	1000	1200	1400	1600	1800	2000
Single	6.68	4.54	2.86	1.92	1.35	0.98
Double	3.61	2.74	2.15	1.74	1.44	1.21
Multi	4.30	3.27	2.58	2.09	1.73	1.46

All tables have been produced in accordance with BS EN 1993-1:2006

Further steel properties obtained from BS EN 1993-1-2005

Limitations on deflections were from BS 5427:2016, Table 10

A load factor of 1.5 has been applied, consistent with the variable load characteristic design approach in the Eurocodes

Table values must include self weight of the decking system used in design

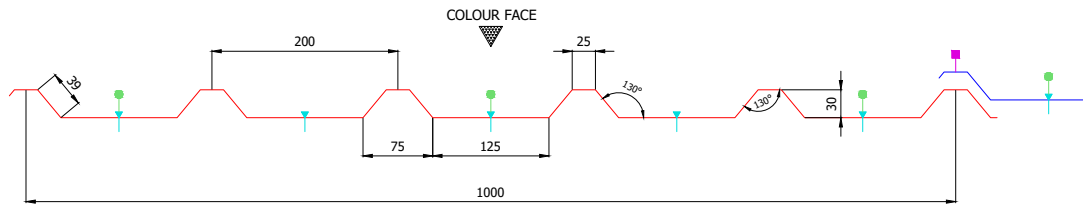
Permissible loads in excess of 2m are available on request

30-200-1000 guide drawings

these drawings are indicative only, for use as a guide.
 the customer is always responsible for any specific design,
 structural calculations and calculating exact sizes of rails, sizes
 & quantities of brackets, type and quantities of fixings.
 any project details and calculations supplied by teknorooftd
 are provided in good faith and should always be checked and
 approved by the project engineer responsible. teknorooftd
 will not accept any liability should the system be designed/
 installed incorrectly. do not scale drawing.

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30-200-1000 - SUPPORTED ROOF LAP											
MATERIAL	GAUGE	COIL WIDTH	CONVEX CURVE			CONCAVE CURVE					
			SELF	SMOOTH	CRIMP	SELF	SMOOTH	CRIMP			
ALUMINIUM	0.7	1220	35m	N/A	N/A	35m	N/A	N/A			
	0.9							N/A			
STEEL	0.5		50m			50m		N/A	50m	N/A	N/A
	0.7										N/A



- - LAP & SHEET END FIXING LOCATION
- - INTERMEDIATE FIXING LOCATION
- - SIDE STITCH FIXING - 450mm CENTRES

Note: Fixing layout shown is minimum fixing requirement.
 Project specific conditions may need to be considered.

Tolerance: Coverwidth = +/- 5mm
 Depth = +/- 2mm
 Squareness = 0.5% of CW

Scale	N.T.S.
Date	April 2021
Drawing No.	A1
Issue	A

teknorooftd

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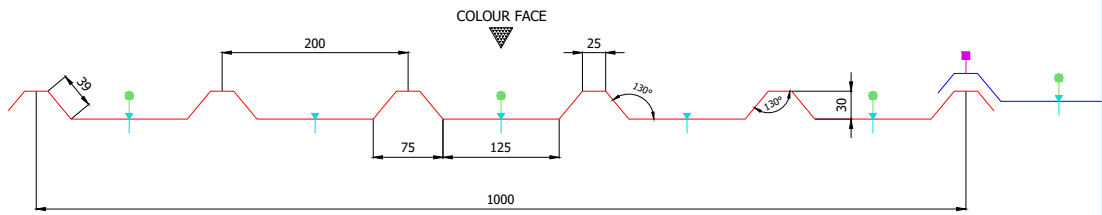
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Tel: 01604 386699 Email: sales@teknorooftd.com Website: www.teknorooftd.com

30-200-1000 guide drawings

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30-200-1000 - EQUAL-EQUAL UNSUPPORTED ROOF LAP										
MATERIAL	GAUGE	COIL WIDTH	CONVEX CURVE			CONCAVE CURVE				
			SELF	SMOOTH	CRIMP	SELF	SMOOTH	CRIMP		
ALUMINIUM	0.7	1220	35m	N/A	N/A	35m	N/A	N/A		
	0.9							N/A		
STEEL	0.5		50m			50m		N/A	N/A	N/A
	0.7									N/A



- ▲ - LAP & SHEET END FIXING LOCATION
- - INTERMEDIATE FIXING LOCATION
- - SIDE STITCH FIXING - 450mm CENTRES

Note: Fixing layout shown is minimum fixing requirement. Project specific conditions may need to be considered.

Tolerance: Coverwidth = +/- 5mm
Depth = +/- 2mm
Squareness = 0.5% of CW

Scale	N.T.S.
Date	April 2021
Drawing No.	A2
Issue	A

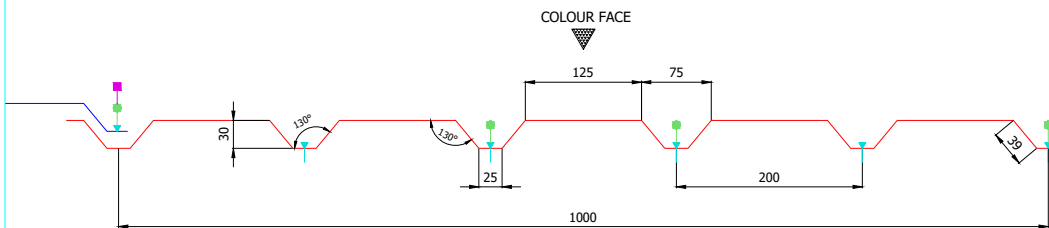
30-200-1000 Equal-Equal Roof Lap	
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30-200-1000 - WALL LAP										
MATERIAL	GAUGE	COIL WIDTH	CONVEX CURVE			CONCAVE CURVE				
			SELF	SMOOTH	CRIMP	SELF	SMOOTH	CRIMP		
ALUMINIUM	0.7	1220	35m	N/A	N/A	35m	N/A	N/A		
	0.9							N/A		
STEEL	0.5		50m			50m		N/A	N/A	N/A
	0.7									N/A



- ▲ - LAP & SHEET END FIXING LOCATION
- - INTERMEDIATE FIXING LOCATION
- - SIDE STITCH FIXING - 450mm CENTRES

Note: Fixing layout shown is minimum fixing requirement. Project specific conditions may need to be considered.

Tolerance: Coverwidth = +/- 5mm
Depth = +/- 2mm
Squareness = 0.5% of CW

Scale	N.T.S.
Date	April 2021
Drawing No.	A3
Issue	A

30-200-1000 Wall Lap	
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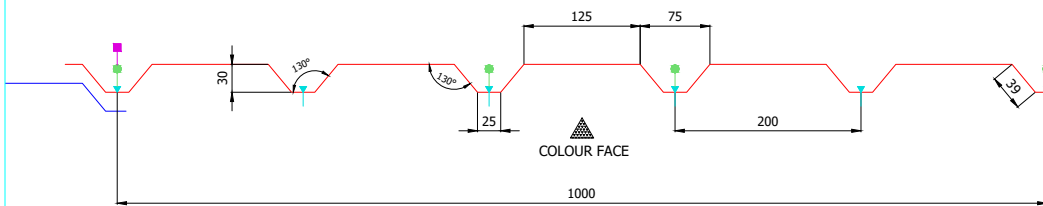
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30-200-1000 guide drawings

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30-200-1000 - DECKING LAP								
MATERIAL	GAUGE	COIL WIDTH	CONVEX CURVE			CONCAVE CURVE		
			SELF	SMOOTH	CRIMP	SELF	SMOOTH	CRIMP
ALUMINIUM	0.7	1220	35m	N/A	N/A	35m	N/A	N/A
	0.9							N/A
STEEL	0.5		50m	N/A	N/A	50m	N/A	N/A
	0.7							N/A



- ↑ - LAP & SHEET END FIXING LOCATION
- - INTERMEDIATE FIXING LOCATION
- - SIDE STITCH FIXING - 450mm CENTRES

Note: Fixing layout shown is minimum fixing requirement. Project specific conditions may need to be considered.

Tolerance: Coverwidth = +/- 5mm
Depth = +/- 2mm
Squareness = 0.5% of CW

Scale	N.T.S.
Date	April 2021
Drawing No.	A4
Issue	A

30-200-1000 Decking Lap

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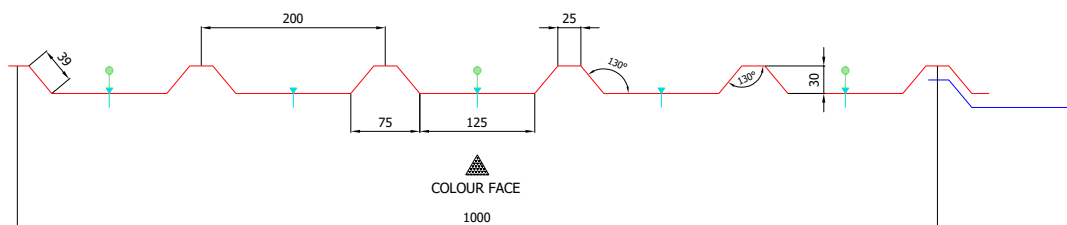
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30-200-1000 - LINER LAP								
MATERIAL	GAUGE	COIL WIDTH	CONVEX CURVE			CONCAVE CURVE		
			SELF	SMOOTH	CRIMP	SELF	SMOOTH	CRIMP
ALUMINIUM	0.7	1220	35m	N/A	N/A	35m	N/A	N/A
	0.9							N/A
STEEL	0.5		50m	N/A	N/A	50m	N/A	N/A
	0.7							N/A



- ↑ - LAP & SHEET END FIXING LOCATION
- - INTERMEDIATE FIXING LOCATION

Note: Fixing layout shown is minimum fixing requirement. Project specific conditions may need to be considered.

Tolerance: Coverwidth = +/- 5mm
Depth = +/- 2mm
Squareness = 0.5% of CW

Scale	N.T.S.
Date	April 2021
Drawing No.	A5
Issue	A

30-200-1000 Liner Lap

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teknoroo^f.



info@teknoroo^f.com
01604 386699

teknoroo^f.com

the shed
rathvilly farm
barn lane
milton malsor
northamptonshire
nn7 3ag

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all information is correct as of the date of this document, created May 2021.