Bailey's Production Facility, Mallusk.
Tegral Twin-Skin Roofing and Cladding

The Helix, Dublin.
Tegral Roof Decking

Independent News & Media plc.
Tegral Composite Floor Decking

Central Park, Leopardstown, Dublin.
Tegral Composite Floor Decking

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Flat Roof Decking

Metal Profiled Roof Decking

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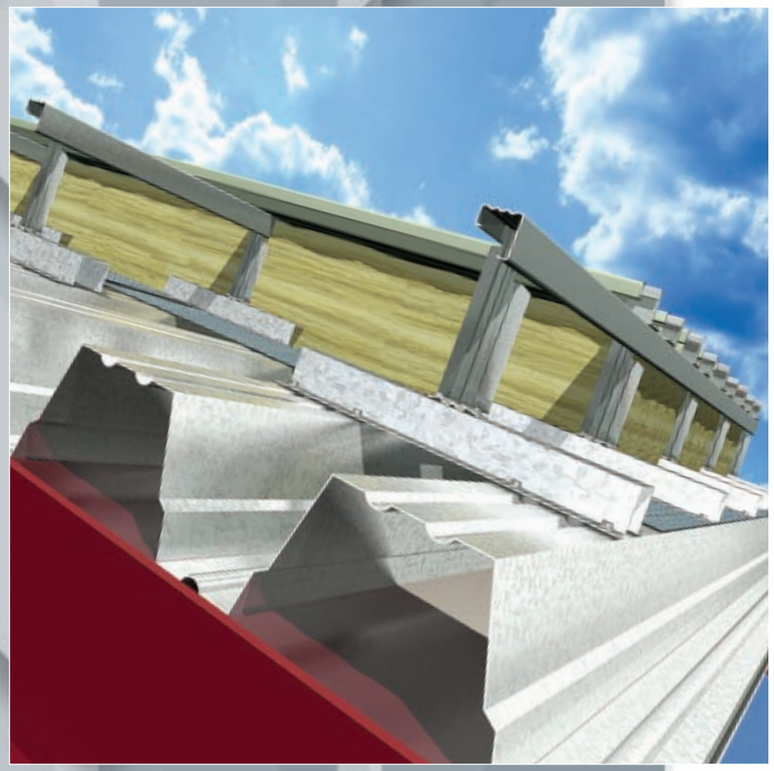

A world of experience

Our Company

Tegral Metal Forming is part of the Tegral Group and a subsidiary of the Etex Group, a world-renowned international building products company. For over 25 years, Tegral Metal Forming has been to the forefront of development with regard to roofing, cladding and flooring systems.

Based in Athy, Co. Kildare, the Tegral Group consists of Tegral Building Products and Tegral Metal Forming. Tegral Building Products is Ireland's largest manufacturer and distributor of roofing products and Tegral Metal Forming Ltd. is a leading manufacturer and supplier of metal roofing, cladding and flooring systems for the construction industry.

The comprehensive product range is designed to suit most applications in modern commercial, industrial and agricultural construction. Over the years, Tegral Metal Forming has developed an expertise in every aspect of metal systems application.

Project: Colaiste de hIdé, Dublin
Architects: Campbell Conroy Hickey
Product: Tegral Fineline 19, Corus Colorcoat® HPS200

Cover Photo
Project: Gregor Shore Apartments, Leith, Edinburgh
Product: External Rainscreen Framing Tegframe 140 Section and Internal Partitioning Teoframe 90 Section

Our Partners

Through a long-standing partnership with Corus, a world-renowned manufacturer of steel and aluminium, Tegral customers and specifiers are assured of the highest standards and quality in all Tegral products.

Our Standards

All manufacturing in Athy meets with the stringent requirements of Quality Assurance systems to ISO EN 9001:2000.

Our People

People really do matter at Tegral Metal Forming. Recently the company proudly embraced and succeeded in achieving the "Excellence Through People" award, Ireland's national standard for human resource development.

Our Industry Associates

Tegral Metal Forming takes an active role in the promotion of the metal industry and is involved in the Roof Manufacturers and Suppliers Association (RMSA) in Ireland, the Metal Cladding and Roofing Manufacturers Association (MCRMA) in the UK and also the Irish Farm Buildings Association.

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I·F·B·A

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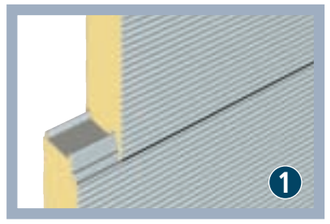
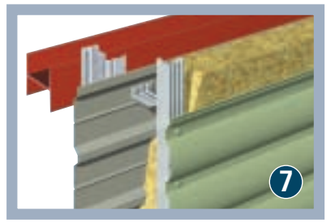
DESIGNER'S ROOF DECKING GUIDE ROOF DECKING

Tegral product range

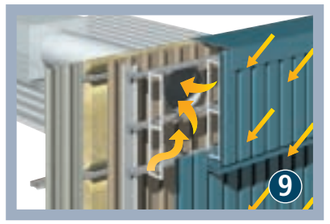
Tegral product range



LPCB & FM approved Insulated Panel Range

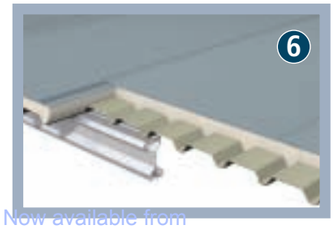


Built-Up Roofing and Wall Cladding Systems



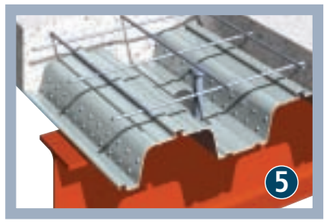
SolarWall™

Aluseam® and Seam-Loc Standing Seam Roofing



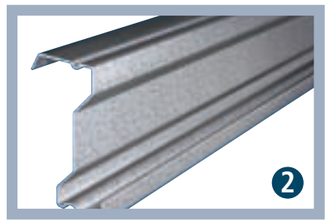
Superdeck Membrane-faced Insulated Roof Panel

Complete Tegral Systems Range including the World's first CarbonNeutral building envelope through Confidex Sustain™ from Corus with Colorcoat® assessed systems.



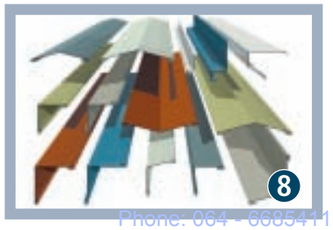
ComFlor® Flooring Range

Flat Roof Deck Range



Zeta Purlin Range

Tegframe® Light Gauge Steel Framing



Flashings

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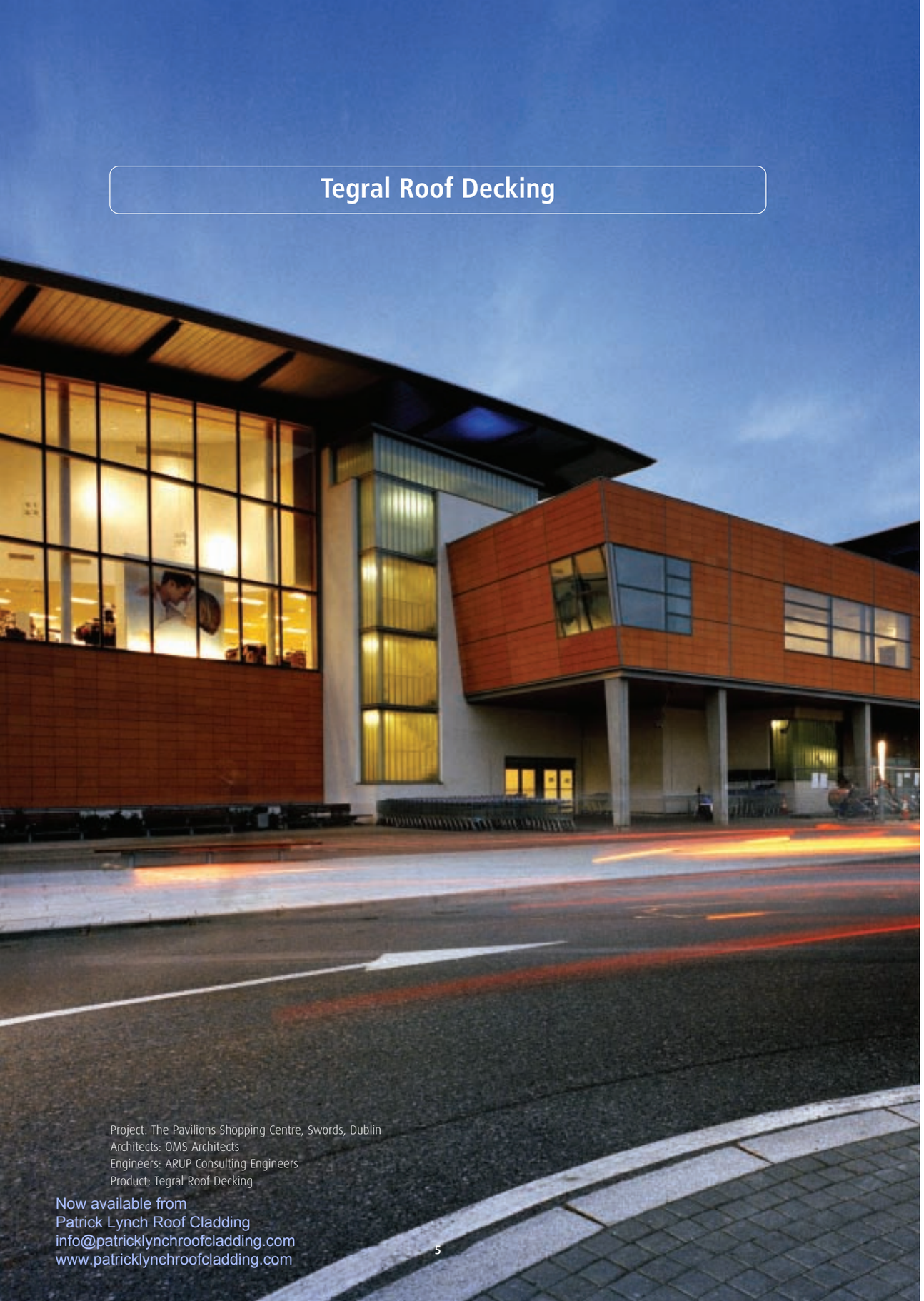
Tegral Roof Decking



Project: The Pavilions Shopping Centre, Swords, Dublin
Architects: OMS Architects
Engineers: ARUP Consulting Engineers
Product: Tegral Roof Decking

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Tegral Roof Decking

Metal profiled roof decking is combined with insulation and weather proof membranes to provide superior coverage in commercial, industrial or residential buildings.

Tegral roof decking is available in twelve different profiles:

D19

D32

D35

D46

D60

D100

D150

D210

D135

D150

D165

D200

Material options:

- Galvanised steel plain or white enamel soffit.
- Corus Colorcoat® pre-finished steel
- Aluminium

Tegral's D46, D60, D100, D159, D135, D150, D165 and D200 profiles are available with web perforations.

Plain galvanised steel is the most economical form of roof decking and its use is primarily functional. Where the underside of roof decking is exposed internally, Tegral can supply pre-painted Corus Colorcoat® White Enamel finish as an economical add-on option.

For special internal conditions the Tegral range may be supplied in Corus Colorcoat® HPS200 finish steel or aluminium material.

Designers are now considering the issue of sound absorption more carefully. Tegral's range of perforated deck profiles allow for efficient sound absorption in conjunction with suitable mineral wool insulation.

Project: The Helix, Dublin City University, Dublin
Architects: A & D Wejchert
Engineers: O'Connor, Sutton, Cronin
Product: Tegral Roof Decking, Cladding Rails

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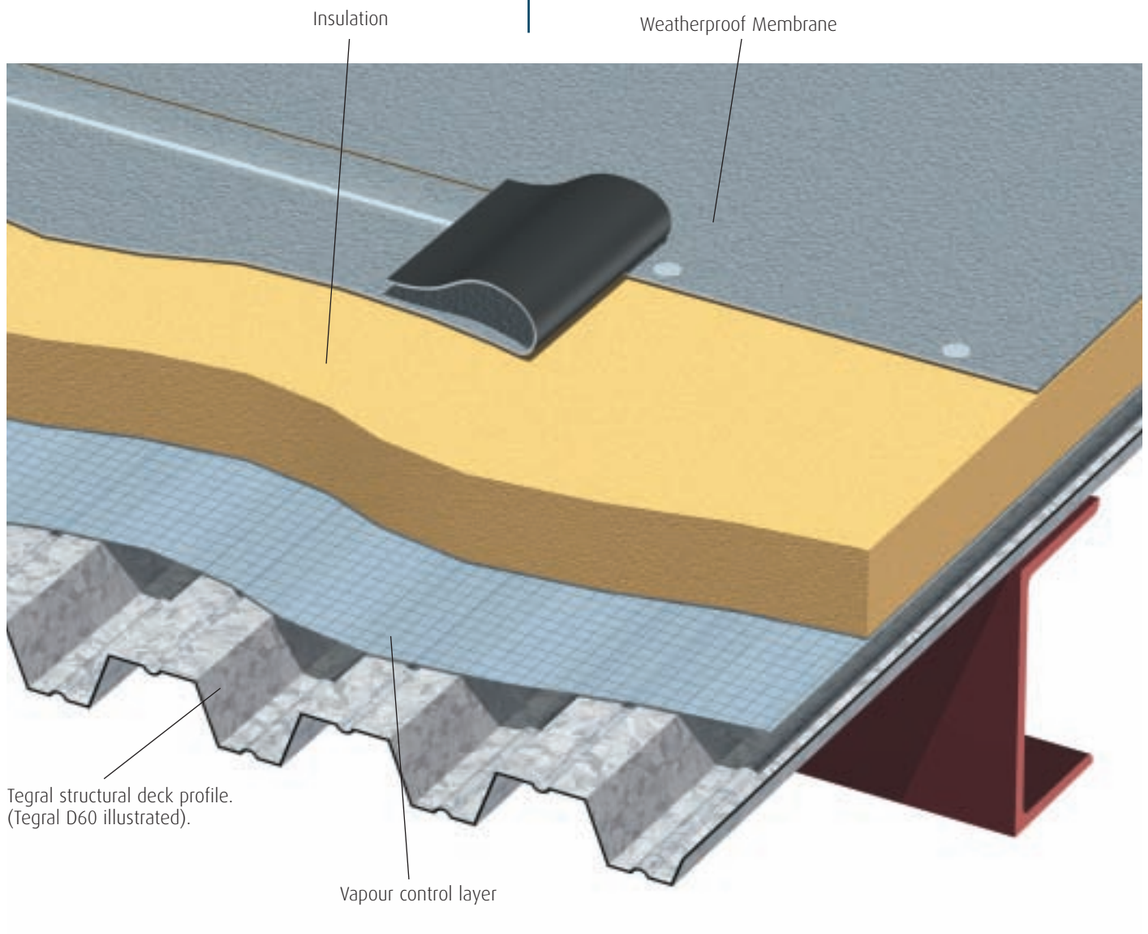
Typical application

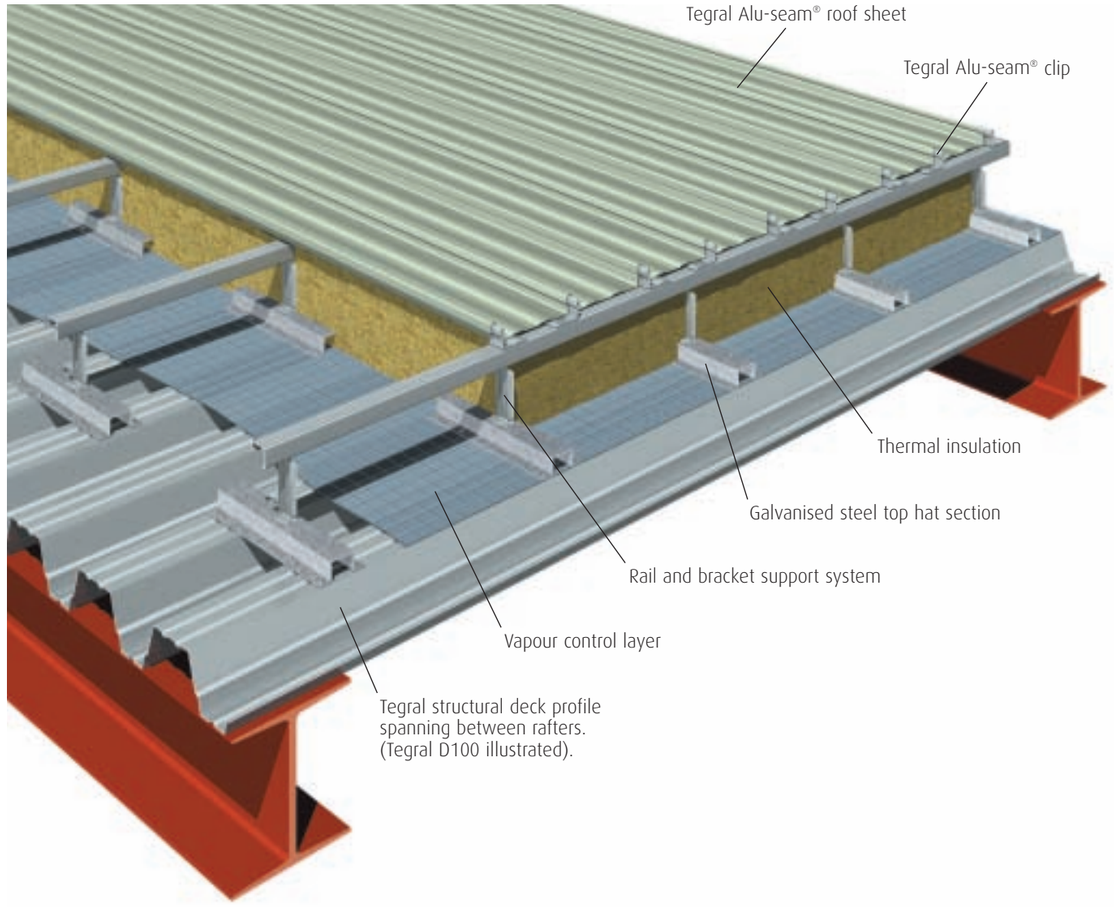
Typical structural deck system utilising a single ply membrane roof



DESIGNER'S ROOF DECKING GUIDE TYPICAL APPLICATION

Typical application

Typical structural deck system with standing seam roof.



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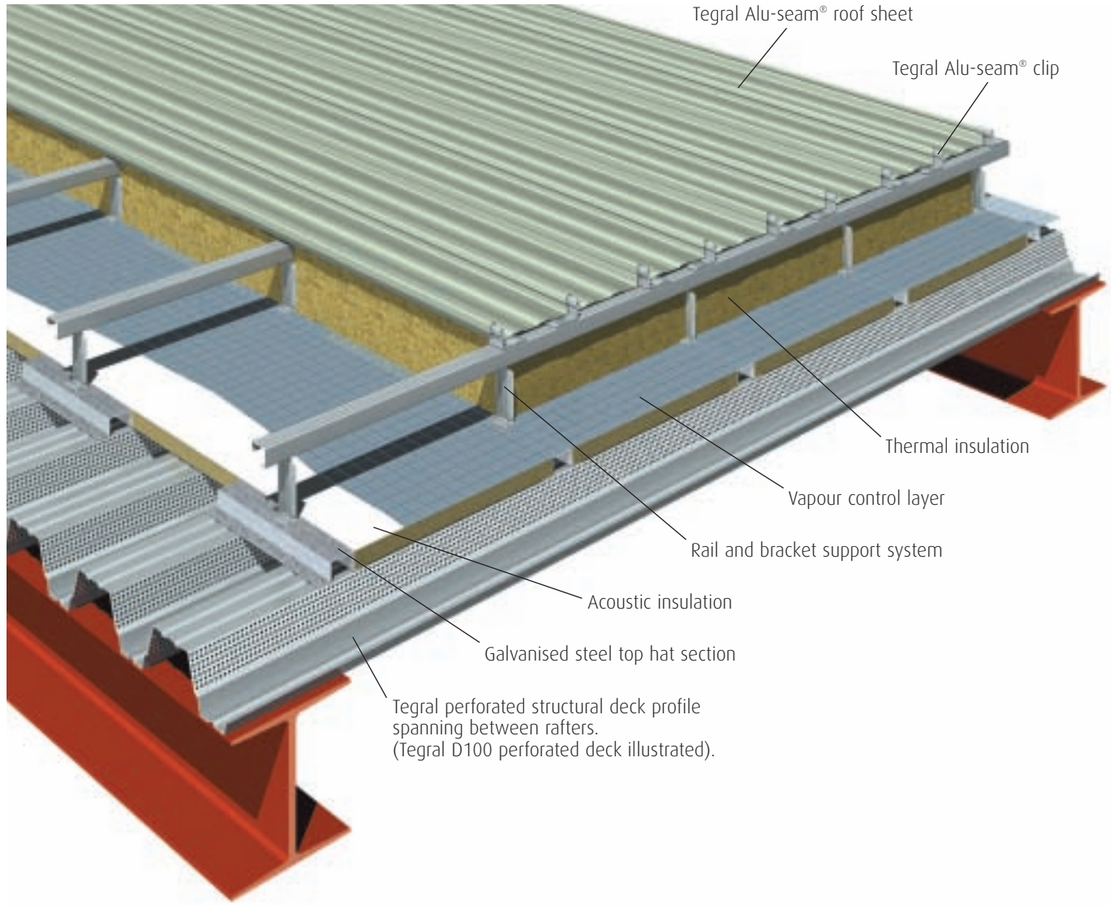
Typical application

Typical acoustic structural deck system with standing seam roof



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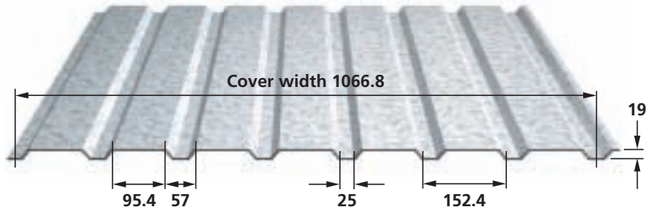
Tegral D19

Galvanised Steel 280 N/mm² and white lining enamel coated Galvanised steel.



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	6.33	0.85	3.15	0.84	4.15	22.95	26.69
0.90	0.86	8.14	1.23	4.25	1.12	5.38	36.97	34.39
1.20	1.16	10.85	1.83	5.05	1.49	7.19	63.20	45.63

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40
Single	0.70	11.92	7.22	4.70	3.23	2.31	1.71	1.30	-	-	-	-	-	-	-	-
	0.90	16.09	9.75	6.34	4.36	3.12	2.31	1.76	1.37	-	-	-	-	-	-	-
	1.20	19.12	11.58	7.54	5.18	3.71	2.75	2.09	1.63	1.29	-	-	-	-	-	-
Double	0.70	10.31	7.96	6.33	5.16	4.29	3.62	3.10	2.68	2.16	1.75	1.43	-	-	-	-
	0.90	14.77	11.32	8.96	7.26	6.01	4.99	4.20	3.58	2.85	2.31	1.89	1.57	1.32	-	-
	1.20	21.00	15.81	12.29	9.81	7.99	6.63	5.59	4.55	3.62	2.93	2.41	2.00	1.68	1.42	1.22
Multi	0.70	12.38	9.60	7.66	6.26	5.22	4.41	3.47	2.71	2.16	1.75	1.43	-	-	-	-
	0.90	17.82	13.71	10.88	8.85	7.34	5.99	4.58	3.58	2.85	2.31	1.89	1.57	1.32	-	-
	1.20	25.54	19.35	15.11	12.09	9.88	7.61	5.82	4.55	3.62	2.93	2.41	2.00	1.68	1.42	1.22

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40
Single	0.70	12.44	9.14	7.00	5.53	4.36	3.27	2.52	-	-	-	-	-	-	-	-
	0.90	16.59	12.19	9.33	7.37	5.65	4.24	3.27	2.57	-	-	-	-	-	-	-
	1.20	22.07	16.22	12.42	9.81	7.55	5.67	4.37	3.44	2.75	-	-	-	-	-	-
Double	0.70	12.59	9.25	7.08	5.60	4.53	3.75	3.15	2.68	2.31	2.01	1.77	-	-	-	-
	0.90	18.22	13.39	10.25	8.10	6.56	5.42	4.56	3.88	3.35	2.92	2.56	2.27	2.02	-	-
	1.20	27.11	19.92	15.25	12.05	9.76	8.07	6.78	5.78	4.98	4.34	3.78	3.15	2.66	2.26	1.94
Multi	0.70	15.74	11.56	8.85	7.00	5.67	4.68	3.94	3.35	2.89	2.52	2.21	-	-	-	-
	0.90	22.78	16.73	12.81	10.12	8.20	6.78	5.69	4.85	4.18	3.61	2.98	2.48	2.09	-	-
	1.20	33.89	24.90	19.06	15.06	12.20	10.08	8.47	7.05	5.64	4.59	3.78	3.15	2.66	2.26	1.94

Maximum span under Line Load*

Thickness mm	0.70			0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	1.42	1.06	0.71	2.05	1.54	1.03	3.05	2.29	1.53
Double / multi span (m)	1.70	1.28	0.85	2.46	1.85	1.23	3.66	2.75	1.83

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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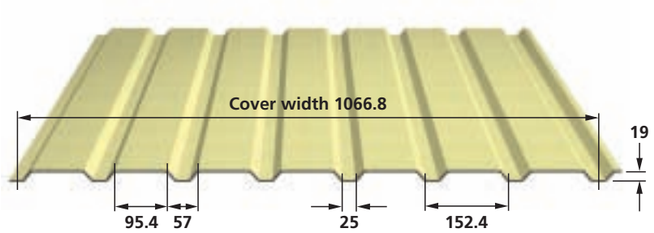
Tegral D19

Colorcoat© Steel 220 N/mm²



Ultimate Section Properties

			Broad Flange in Compression		Narrow Flange in Compression		Bearing 50mm minimum	
Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Moment Capacity kNm/m	Moment of Inertia cm⁴/m	Moment Capacity kNm/m	Moment of Inertia cm⁴/m	Web Crushing kNm/m	Shear Capacity kNm/m
0.70	0.66	6.33	0.68	3.28	0.65	4.15	20.34	20.97

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70
Single	0.70	45.21	29.61	17.91	11.99	7.52	4.90	3.36	2.41	1.78	1.36	-	-	-	-	-
Double	0.70	25.76	16.42	11.41	8.41	6.46	5.12	4.16	3.44	2.90	2.45	2.09	1.80	1.57	1.38	1.21
Multi	0.70	30.46	19.57	13.69	10.13	7.81	6.21	5.06	4.20	3.54	3.03	2.59	2.20	1.78	1.46	1.21

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70
Single	0.70	38.52	21.67	13.87	9.63	7.07	5.42	4.28	3.47	2.87	2.41	-	-	-	-	-
Double	0.70	40.30	22.67	14.51	10.07	7.40	5.67	4.48	3.63	3.00	2.52	2.15	1.85	1.61	1.42	1.25
Multi	0.70	50.37	28.33	18.13	12.59	9.25	7.08	5.60	4.53	3.75	3.15	2.68	2.31	2.01	1.77	1.57

Maximum span under Line Load*

Line load kN/m	1.5	2.0	3.0
Single span (m)	1.13	0.85	0.57
Double / multi span (m)	1.36	1.02	0.68

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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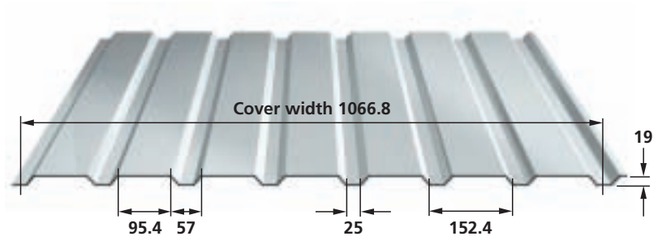
Tegral D19

Aluminium 160 N/mm²



Ultimate Section Properties

			Broad Flange in Compression		Narrow Flange in Compression		Bearing 50mm minimum	
Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Moment Capacity kNm/m	Moment of Inertia cm⁴/m	Moment Capacity kNm/m	Moment of Inertia cm⁴/m	Web Crushing kNm/m	Shear Capacity kNm/m
0.90	0.90	2.20	0.60	5.62	0.54	5.62	17.72	20.52
1.20	1.20	2.83	0.80	7.50	0.73	7.50	29.66	26.91

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40
Single	0.90	39.38	25.90	13.26	7.26	4.40	2.86	1.97	1.41	-	-	-	-	-	-	-
	1.20	65.92	34.83	17.70	9.69	5.87	3.82	2.63	1.88	1.39	-	-	-	-	-	-
Double	0.90	21.94	13.92	9.65	7.09	5.43	4.30	3.49	2.89	2.39	1.82	1.43	-	-	-	-
	1.20	33.29	20.74	14.19	10.32	7.85	6.17	4.91	3.98	3.18	2.43	1.90	1.52	1.23	-	-
Multi	0.90	25.98	16.62	11.59	8.55	6.58	5.22	4.25	3.20	2.39	1.82	1.43	-	-	-	-
	1.20	39.61	24.89	17.12	12.51	9.55	7.53	5.93	4.27	3.18	2.43	1.90	1.52	1.23	-	-

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40
Single	0.90	31.88	17.93	11.48	7.97	5.86	3.93	2.76	2.01	-	-	-	-	-	-	-
	1.20	43.26	24.33	15.57	10.81	7.84	5.25	3.69	2.69	2.02	-	-	-	-	-	-
Double	0.90	35.26	19.83	12.69	8.81	6.48	4.96	3.92	3.17	2.62	2.20	1.88	-	-	-	-
	1.20	47.41	26.67	17.07	11.85	8.71	6.67	5.27	4.27	3.53	2.96	2.52	2.18	1.90	-	-
Multi	0.90	44.07	24.79	15.87	11.02	8.10	6.20	4.90	3.97	3.28	2.75	2.21	-	-	-	-
	1.20	59.26	33.33	21.33	14.81	10.88	8.33	6.58	5.33	4.41	3.70	2.95	2.36	1.92	-	-

Maximum span under Line Load*

Thickness mm	0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	0.99	0.74	0.50	1.33	1.00	0.67
Double / multi span (m)	1.19	0.89	0.60	1.60	1.20	0.80

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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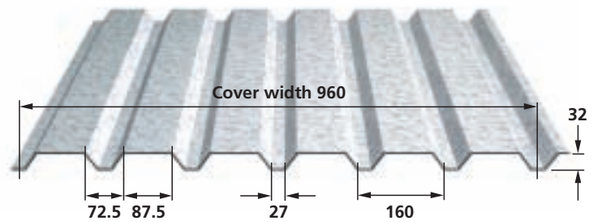
Tegral D32

Galvanised Steel 280 N/mm²



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	7.01	1.56	10.22	1.62	12.54	22.35	43.44
0.75	0.71	7.51	1.73	11.22	1.78	13.50	25.50	46.65
0.90	0.86	9.01	2.27	14.26	2.18	16.30	36.00	56.24
1.20	1.15	12.02	3.44	20.73	2.94	22.00	61.54	75.13

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40
Single	0.70	7.51	5.56	4.23	3.30	2.62	2.11	1.73	1.43	1.20	-	-	-	-	-	-
	0.75	8.24	6.10	4.65	3.62	2.87	2.32	1.90	1.57	1.32	-	-	-	-	-	-
	0.90	10.47	7.75	5.91	4.60	3.65	2.95	2.41	2.00	1.68	1.42	1.21	-	-	-	-
	1.20	15.23	11.28	8.58	6.68	5.31	4.28	3.51	2.91	2.44	2.06	1.76	1.52	1.31	-	-
Double	0.70	6.40	5.49	4.77	4.18	3.70	3.29	2.95	2.55	2.41	2.20	2.01	1.85	1.66	1.45	1.28
	0.75	7.15	6.13	5.32	4.66	4.11	3.66	3.28	2.96	2.68	2.44	2.23	2.05	1.81	1.58	1.39
	0.90	9.26	7.961	6.85	5.98	5.27	4.68	4.19	3.77	3.41	3.10	2.83	2.57	2.23	1.95	1.72
	1.20	13.59	11.56	9.95	8.66	7.60	6.73	6.00	5.38	4.82	4.33	3.91	3.55	3.12	2.73	2.40
Multi	0.70	7.67	6.60	5.74	5.04	4.46	3.98	3.58	3.23	2.93	2.59	2.22	1.91	1.66	1.45	1.26
	0.75	8.57	7.37	6.40	5.62	4.97	4.44	3.98	3.58	3.26	2,82	2.41	2.08	1.81	1.58	1.39
	0.90	11.15	9.55	8.27	7.24	6.39	5.69	5.09	4.59	4.10	3.48	2.96	2.57	2.23	1.95	1.72
	1.20	16.45	14.01	12.08	10.53	9.26	8.21	7.33	6.58	5.73	4.87	4.17	3.59	3.12	2.73	2.40

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40
Single	0.70	8.65	7.15	6.01	5.12	4.41	3.84	3.20	2.57	2.25	-	-	-	-	-	-
	0.75	9.51	7.86	6.60	5.63	4.85	4.20	3.46	2.88	2.43	-	-	-	-	-	-
	0.90	11.63	9.61	8.08	5.88	5.93	5.07	4.18	3.48	2.93	2.49	2.14	-	-	-	-
	1.20	15.68	12.96	10.89	9.28	8.00	6.84	5.64	4.70	3.96	3.37	2.89	2.49	2.17	-	-
Double	0.70	8.34	6.89	5.79	4.94	4.25	3.71	3.26	2.89	2.57	2.31	2.09	1.89	1.72	1.58	1.45
	0.75	9.25	7.64	6.42	5.47	4.72	4.11	3.61	3.20	2.85	2.56	2.31	2.10	1.91	1.75	1.61
	0.90	12.12	10.01	8.41	7.17	6.18	5.39	4.73	4.19	3.74	3.36	3.03	2.75	2.50	2.29	2.10
	1.20	18.33	15.14	12.73	10.64	9.35	8.14	7.16	6.34	5.66	5.08	4.58	4.16	3.79	3.45	3.18
Multi	0.70	10.43	8.62	7.24	6.17	5.32	4.63	4.07	3.61	3.22	2.89	2.61	2.36	2.15	1.97	1.81
	0.75	11.56	9.55	8.03	6.84	5.90	5.14	4.52	4.00	3.57	3.20	2.89	2.62	2.30	2.10	2.01
	0.90	15.15	12.52	10.52	8.96	7.73	6.73	5.92	5.24	4.67	4.20	3.79	3.43	3.13	2.85	2.63
	1.20	22.91	18.93	15.91	13.55	11.96	10.18	8.95	7.93	7.07	6.35	5.73	5.19	4.73	4.33	3.91

Maximum span under Line Load*

Thickness mm	0.70			0.75			0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	3.68	2.76	1.84	2.89	2.17	1.45	4.87	3.65	2.43	6.58	4.94	3.29
Double / multi span (m)	4.42	3.32	2.21	3.47	2.60	1.73	5.84	4.38	2.92	7.90	5.93	3.95

Data required

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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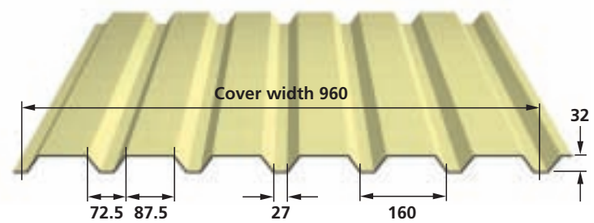
Tegral D32

Colorcoat© Steel 220 N/mm²



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	7.01	1.29	10.53	1.32	12.50	19.81	34.13

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40
Single	0.70	7.64	5.73	4.36	3.40	2.70	2.18	1.78	1.48	1.24	-	-	-	-	-	-
Double	0.70	5.38	4.61	4.00	3.50	3.09	2.75	2.46	2.22	2.01	1.83	1.67	1.53	1.41	1.30	1.21
Multi	0.70	6.47	5.55	4.82	4.23	3.74	3.33	2.99	2.69	2.44	2.22	2.03	1.87	1.68	1.47	1.29

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40
Single	0.70	7.01	5.80	4.87	4.15	3.58	3.12	2.74	2.43	2.16	-	-	-	-	-	-
Double	0.70	6.89	5.69	4.79	4.08	3.52	3.06	2.69	2.38	2.13	1.91	1.72	1.56	1.42	1.30	1.20
Multi	0.70	8.61	7.12	5.98	5.10	4.39	3.83	3.36	2.98	2.66	2.39	2.15	1.95	1.78	1.63	1.50

Maximum span under Line Load*

Line load kN/m	1.5	2.0	3.0
Single span (m)	2.15	1.62	1.08
Double / multi span (m)	2.58	1.94	1.29

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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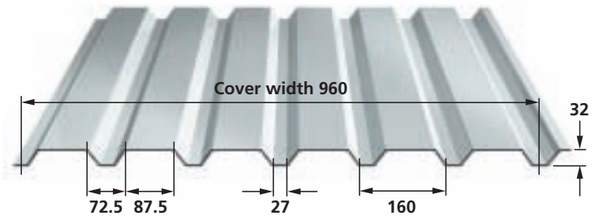
Tegral D32

Aluminium 160 N/mm²



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.90	0.90	3.15	1.31	16.15	1.11	17.10	17.25	33.59
1.20	1.20	4.20	1.91	22.70	1.48	22.70	28.89	44.35

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40
Single	0.90	4.05	3.00	2.28	1.78	1.41	-	-	-	-	-	-	-	-	-	-
	1.20	5.69	4.22	3.21	2.50	1.98	1.60	1.31	-	-	-	-	-	-	-	
Double	0.90	4.60	3.94	3.41	2.98	2.63	2.34	2.09	1.81	1.52	1.29	-	-	-	-	-
	1.20	6.67	5.68	4.90	4.27	3.75	3.32	2.97	2.47	2.08	1.77	1.51	1.30	-	-	-
Multi	0.90	5.53	4.74	4.11	3.60	3.19	2.65	2.18	1.81	1.52	1.29	-	-	-	-	-
	1.20	8.06	6.88	5.94	5.18	4.46	3.62	2.97	2.47	2.08	1.77	1.51	1.30	-	-	-

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40
Single	0.90	5.91	4.60	3.55	2.79	2.23	-	-	-	-	-	-	-	-	-	-
	1.20	7.88	6.11	4.71	3.70	2.97	2.41	1.99	-	-	-	-	-	-	-	-
Double	0.90	6.97	5.76	4.84	4.12	3.56	3.10	2.72	2.41	2.15	1.93	-	-	-	-	-
	1.20	10.18	8.41	7.07	6.02	5.19	4.52	3.98	3.52	3.14	2.82	2.45	2.12	-	-	-
Multi	0.90	8.71	7.20	6.05	5.16	4.45	3.87	3.40	2.92	2.46	2.09	-	-	-	-	-
	1.20	12.72	10.51	8.83	7.53	6.49	5.65	4.79	3.99	3.36	2.86	2.45	2.12	-	-	-

Maximum span under Line Load*

Thickness mm	0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	2.18	1.63	1.09	3.18	2.39	1.59
Double / multi span (m)	2.61	1.96	1.31	3.82	2.86	1.91

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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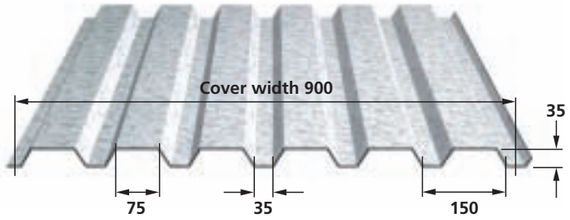
Tegral D35

Galvanised Steel 280 N/mm² and white lining enamel coated Galvanised steel.



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	7.50	1.91	13.53	1.95	16.60	24.53	50.77
0.75								
0.90	0.86	9.65	2.80	18.86	2.78	22.02	39.51	65.77
1.20	1.15	12.86	4.21	27.33	3.88	29.40	67.55	87.93

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40
Single	0.70	2.29	1.90	1.59	1.35	-	-	-	-	-	-	-	-	-	-	-
	0.75															
	0.90	3.19	2.64	2.22	1.88	1.60	1.38	1.20	-	-	-	-	-	-	-	-
	1.20	4.62	3.83	3.21	2.72	2.32	2.00	1.73	1.51	1.33	-	-	-	-	-	-
Double	0.70	3.44	3.10	2.82	2.57	2.35	2.16	1.99	1.84	1.69	1.49	1.32	-	-	-	-
	0.75															
	0.90	5.09	4.59	4.16	3.79	3.47	3.18	2.93	2.60	2.29	2.02	1.80	1.60	1.44	1.29	-
	1.20	7.54	6.78	6.13	5.57	5.08	4.66	4.13	3.61	3.17	2.81	2.49	2.23	1.99	1.79	1.62
Multi	0.70	4.15	3.76	3.41	3.12	2.86	2.52	2.19	1.92	1.69	1.49	1.32	-	-	-	-
	0.75															
	0.90	6.18	5.58	5.06	4.61	3.97	3.42	2.98	2.60	2.29	2.02	1.80	1.60	1.44	1.29	-
	1.20	9.18	8.26	7.48	6.43	5.51	4.75	4.13	3.61	3.17	2.81	2.49	2.23	1.99	1.79	1.62

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40
Single	0.70	4.06	3.55	2.99	2.54	-	-	-	-	-	-	-	-	-	-	-
	0.75															
	0.90	5.64	4.70	3.96	3.37	2.89	2.50	2.17	-	-	-	-	-	-	-	-
	1.20	7.53	6.28	5.29	4.50	3.86	3.33	2.90	2.54	2.23	-	-	-	-	-	-
Double	0.70	3.98	3.52	3.14	2.82	2.55	2.31	2.10	1.93	1.77	1.63	1.51	-	-	-	-
	0.75															
	0.90	5.83	5.17	4.61	4.14	3.73	3.39	3.09	2.82	2.59	2.39	2.21	2.05	1.90	1.78	-
	1.20	8.77	7.77	6.93	6.22	5.61	5.09	4.64	4.24	3.90	3.59	3.32	3.08	2.86	2.67	2.49
Multi	0.70	4.97	4.41	3.93	3.53	3.18	2.89	2.63	2.41	2.21	2.04	1.88	-	-	-	-
	0.75															
	0.90	7.29	6.46	5.76	5.17	4.67	4.23	3.86	3.53	3.24	2.99	2.76	2.56	2.36	2.12	-
	1.20	10.96	9.71	8.66	7.77	7.02	6.36	5.80	5.31	4.87	4.49	4.08	3.65	3.27	2.94	2.66

Maximum span under Line Load*

Thickness mm	0.70			0.75			0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	3.18	2.39	1.59				4.67	3.50	2.33	7.02	5.26	3.51
Double / multi span (m)	3.82	2.87	1.91				5.60	4.20	2.80	8.42	6.32	4.21

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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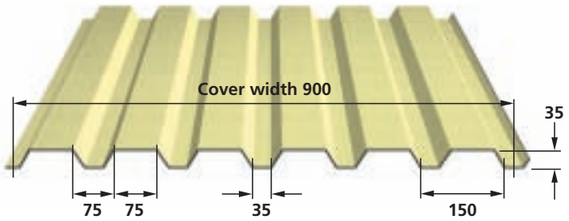
Tegral D35

Colorcoat© Steel 220 N/mm²



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	7.50	1.54	14.08	1.54	17.01	21.74	39.89

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
Single	0.70	5.83	4.54	3.60	2.91	2.38	1.97	1.65	1.40	1.20	-	-	-	-	-	-
Double	0.70	4.55	3.99	3.53	3.14	2.82	2.54	2.30	2.10	1.92	1.76	1.62	1.50	1.39	1.29	1.20
Multi	0.70	5.49	4.82	4.27	3.80	3.41	3.08	2.80	2.55	2.33	2.14	1.98	1.83	1.70	1.54	1.37

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
Single	0.70	5.70	4.86	4.19	3.65	3.21	2.84	2.53	2.28	2.05	-	-	-	-	-	-
Double	0.70	5.70	4.86	4.19	3.65	3.21	2.84	2.53	2.28	2.05	1.86	1.70	1.55	1.43	1.31	1.21
Multi	0.70	7.13	6.07	5.24	4.56	4.01	3.55	3.17	2.84	2.57	2.33	2.12	1.94	1.78	1.64	1.52

Maximum span under Line Load*

Line load kN/m	1.5	2.0	3.0
Single span (m)	2.57	1.93	1.28
Double / multi span (m)	3.08	2.31	1.54

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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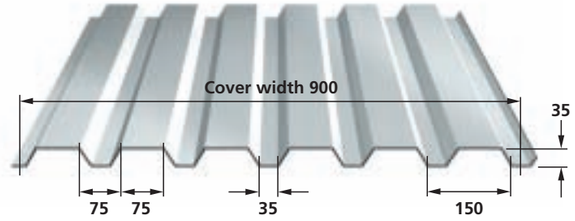
Tegral D35

Aluminium 160 N/mm²



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.90	0.90	3.36	1.46	21.14	1.32	21.14	18.94	39.28
1.20	1.20	4.48	2.19	30.05	1.98	30.05	31.70	51.92

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30
Single	0.90	7.40	5.30	3.93	2.99	2.33	1.85	1.49	1.22	-	-	-	-	-	-	-
	1.20	10.52	7.54	5.58	4.25	3.31	2.63	2.12	1.74	1.44	1.21	-	-	-	-	-
Double	0.90	6.24	5.28	4.53	3.93	3.44	3.04	2.71	2.43	2.19	1.93	1.64	1.40	1.21	-	-
	1.20	9.82	8.29	7.09	6.14	5.37	4.73	4.21	3.76	3.26	2.74	2.33	1.99	1.72	1.49	1.31
Multi	0.90	7.47	6.33	5.44	4.73	4.15	3.68	3.28	2.75	2.29	1.93	1.64	1.40	1.21	-	-
	1.20	11.79	9.97	8.55	7.41	6.49	5.74	4.76	3.91	3.26	2.74	2.33	1.99	1.72	1.49	1.31

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30
Single	0.90	8.69	7.04	5.69	4.38	3.45	2.76	2.25	1.85	-	-	-	-	-	-	-
	1.20	13.06	10.58	8.09	6.23	4.90	3.93	3.19	2.63	2.19	1.85	-	-	-	-	-
Double	0.90	9.58	7.76	6.41	5.39	4.59	3.96	3.45	3.03	2.69	2.40	2.15	1.94	1.76	-	-
	1.20	14.45	11.70	9.67	8.13	6.92	5.97	5.20	4.57	4.05	3.61	3.24	2.93	2.65	2.42	2.13
Multi	0.90	11.98	9.70	8.02	6.74	5.74	4.95	4.31	3.79	3.36	2.99	2.66	2.28	1.97	-	-
	1.20	18.06	14.63	12.09	10.16	8.65	7.46	6.50	5.71	5.06	4.45	3.79	3.25	2.80	2.44	2.13

Maximum span under Line Load*

Thickness mm	0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	2.43	1.82	1.21	3.66	2.74	1.83
Double / multi span (m)	2.91	2.18	1.46	4.39	3.29	2.19

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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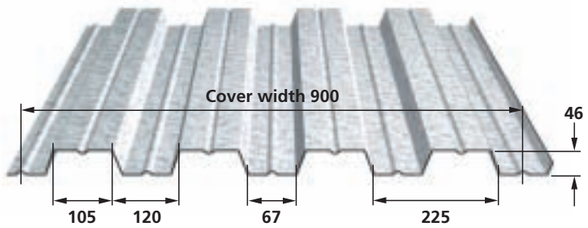
Tegral D46

Galvanised Steel 280 N/mm² and white lining enamel coated Galvanised steel.



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	7.50	2.95	29.41	3.19	31.47	16.34	35.08
0.75	0.71	8.04	3.25	32.43	3.46	33.10	18.64	40.55
0.90	0.86	9.65	4.34	40.90	4.38	41.14	26.32	57.97
1.20	1.16	12.86	6.45	56.56	5.91	55.73	44.99	77.67

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00
Single	0.70	9.08	7.53	4.97	3.46	2.50	1.86	1.43	-	-	-	-	-	-	-	-
	0.75	10.35	8.30	5.48	3.81	2.75	2.06	1.57	1.23	-	-	-	-	-	-	-
	0.90	14.62	10.47	6.92	4.81	3.47	2.59	1.98	1.55	1.24	-	-	-	-	-	-
	1.20	23.42	14.48	9.57	6.65	4.80	3.58	2.74	2.15	1.71	1.39	-	-	-	-	-
Double	0.70	5.64	4.54	3.75	3.16	2.70	2.33	2.04	1.80	1.60	1.43	1.29	-	-	-	-
	0.75	6.31	5.07	4.18	3.51	3.00	2.26	1.99	1.77	1.59	1.43	1.27	-	-	-	
	0.90	8.52	6.82	5.60	4.69	3.99	3.44	3.00	2.64	2.34	2.09	1.88	1.59	1.34	-	-
	1.20	13.10	10.40	8.47	7.05	5.96	5.11	4.43	3.88	3.43	3.05	2.61	2.18	1.83	1.56	1.34
Multi	0.70	6.63	5.36	4.44	3.75	3.21	2.78	2.44	2.16	1.92	1.72	1.42	-	-	-	-
	0.75	7.43	6.00	4.96	4.18	3.57	3.09	2.71	2.39	2.13	1.85	1.52	1.27	-	-	-
	0.90	10.06	8.09	6.66	5.60	4.77	4.12	3.60	3.17	2.82	2.32	1.91	1.59	1.34	-	-
	1.20	15.56	12.40	10.14	8.45	7.16	6.16	5.35	4.69	3.90	3.17	2.61	2.18	1.83	1.56	1.34

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00
Single	0.70	11.81	8.68	6.65	5.25	4.13	3.10	2.39	-	-	-	-	-	-	-	-
	0.75	12.81	9.41	7.21	5.69	4.34	3.26	2.51	1.98	-	-	-	-	-	-	-
	0.90	16.22	11.92	9.13	7.21	5.40	4.06	3.12	2.46	1.97	-	-	-	-	-	-
	1.20	21.89	16.08	12.31	9.73	7.31	5.49	4.23	3.33	2.66	2.17	-	-	-	-	-
Double	0.70	10.93	8.03	6.15	4.86	3.93	3.25	2.73	2.33	2.01	1.75	1.54	-	-	-	-
	0.75	12.04	8.84	6.77	5.35	4.33	3.58	3.01	2.56	2.21	1.93	1.69	1.50	-	-	-
	0.90	16.07	11.81	9.04	7.14	5.79	4.78	4.02	3.42	2.95	2.57	2.26	2.00	1.79	-	-
	1.20	23.89	17.55	13.44	10.62	8.60	7.11	5.97	5.09	4.39	3.82	3.36	2.98	2.65	2.38	2.15
Multi	0.70	13.66	10.03	7.68	6.07	4.92	4.06	3.41	2.91	2.51	2.19	1.92	-	-	-	-
	0.75	15.05	11.05	8.46	6.69	5.42	4.48	3.76	3.21	2.76	2.41	2.12	1.87	-	-	-
	0.90	20.09	14.76	11.30	8.93	7.23	5.98	5.02	4.28	3.69	3.21	2.83	2.50	2.23	-	-
	1.20	29.86	21.94	16.80	13.27	10.75	8.88	7.47	6.36	5.48	4.78	4.20	3.62	3.05	2.59	2.22

Maximum span under Line Load*

Thickness mm	0.70			0.75			0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	4.92	3.69	2.46	5.42	4.06	2.71	7.23	5.43	3.62	10.75	8.06	5.38
Double / multi span (m)	5.90	4.43	2.95	6.50	4.88	3.25	8.68	6.51	4.34	12.90	9.68	6.45

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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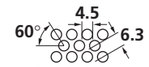
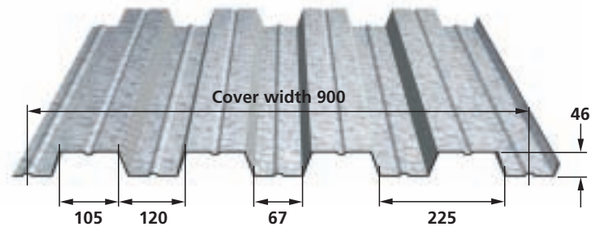
Tegral D46 web perforated

Galvanised Steel 280 N/mm²

Perforating pattern
4.5mm ø holes at 6.3mm triangular centres.
10% of total deck area.



Perforating pattern



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	6.68	2.46	26.70	2.58	27.40	8.17	17.54
0.75	0.71	7.24	2.81	29.10	2.89	29.40	9.32	20.27
0.90	0.86	8.59	3.82	35.60	3.68	35.60	13.16	28.99
1.20	1.16	11.45	6.06	48.10	5.00	48.10	22.49	38.84

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80
Single	0.70	5.45	4.54	3.89	3.40	3.03	2.27	1.69	1.30	-	-	-	-	-	-	-
	0.75	6.21	5.18	4.44	3.88	3.42	2.47	1.84	1.41	-	-	-	-	-	-	-
	0.90	8.77	7.31	6.27	5.48	4.18	3.02	2.26	1.73	1.35	-	-	-	-	-	-
	1.20	15.00	12.50	10.71	8.13	5.65	4.09	3.05	2.33	1.83	1.46	-	-	-	-	-
Double	0.70	4.14	3.29	2.70	2.26	1.93	1.67	1.46	1.29	-	-	-	-	-	-	-
	0.75	4.71	3.74	3.06	2.57	2.19	1.89	1.65	1.46	1.30	-	-	-	-	-	-
	0.90	6.47	5.12	4.18	3.49	2.97	2.56	2.24	1.97	1.75	1.57	1.41	1.28	-	-	-
	1.20	10.37	8.13	6.59	5.46	4.61	3.95	3.43	3.01	2.66	2.37	2.13	1.92	1.75	1.57	1.34
Multi	0.70	4.81	3.84	3.16	2.65	2.27	1.97	1.72	1.53	1.36	1.23	-	-	-	-	-
	0.75	5.47	4.36	3.58	3.01	2.57	2.23	1.95	1.73	1.54	1.39	1.25	-	-	-	-
	0.90	7.54	5.99	4.90	4.11	3.50	3.02	2.65	2.34	2.08	1.87	1.68	1.53	1.38	-	-
	1.20	12.12	9.55	7.76	6.45	5.46	4.70	4.08	3.59	3.18	2.84	2.55	2.24	1.86	1.57	1.34

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80
Single	0.70	13.77	9.56	7.02	5.38	4.25	3.44	2.70	2.08	-	-	-	-	-	-	-
	0.75	15.42	10.71	7.87	6.02	4.76	3.85	2.90	2.23	-	-	-	-	-	-	-
	0.90	19.62	13.63	10.01	7.66	6.06	4.67	3.51	2.70	2.13	-	-	-	-	-	-
	1.20	26.67	18.52	13.61	10.42	8.23	6.31	4.74	3.65	2.87	2.30	-	-	-	-	-
Double	0.70	13.12	9.11	6.69	5.13	4.05	3.28	2.71	2.28	-	-	-	-	-	-	-
	0.75	15.01	10.42	7.66	5.86	4.63	3.75	3.10	2.61	2.22	-	-	-	-	-	-
	0.90	20.35	14.13	10.38	7.95	6.28	5.09	4.20	3.53	3.01	2.60	2.26	1.99	-	-	-
	1.20	32.33	22.45	16.50	12.63	9.98	8.08	6.68	5.61	4.78	4.12	3.59	3.16	2.80	2.49	2.22
Multi	0.70	16.40	11.39	8.37	6.41	5.06	4.10	3.39	2.85	2.43	2.09	-	-	-	-	-
	0.75	18.76	13.03	9.57	7.33	5.79	4.69	3.88	3.26	2.78	2.39	2.08	-	-	-	-
	0.90	25.44	17.67	12.98	9.94	7.85	6.36	5.26	4.42	3.76	3.24	2.83	2.48	2.20	-	-
	1.20	40.41	28.06	20.62	15.79	12.47	10.10	8.35	7.02	5.98	5.15	4.49	3.72	3.10	2.61	2.22

Maximum span under Line Load*

Thickness mm	0.70			0.75			0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	4.10	3.08	2.05	4.69	3.52	2.35	6.36	4.77	3.18	10.10	7.58	5.05
Double / multi span (m)	4.92	3.69	2.46	5.63	4.22	2.81	7.63	5.72	3.82	12.12	9.09	6.06

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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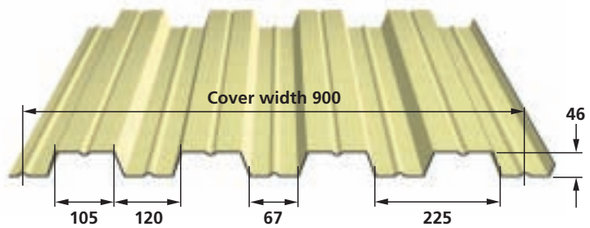
Tegral D46

Colorcoat© Steel 220 N/mm²



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	7.50	2.43	30.37	2.52	31.47	14.48	31.09

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00	3.10	3.20
Single	0.70	3.57	3.02	2.58	2.22	1.92	1.68	1.47	1.30	-	-	-	-	-	-	-
Double	0.70	2.64	2.43	2.25	2.09	1.94	1.81	1.69	1.59	1.49	1.40	1.32	1.25	-	-	-
Multi	0.70	3.15	2.90	2.69	2.50	2.32	2.17	2.03	1.91	1.79	1.69	1.59	1.51	1.43	1.35	1.29

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00	3.10	3.20
Single	0.70	4.15	3.72	3.36	3.05	2.78	2.54	2.33	2.11	-	-	-	-	-	-	-
Double	0.70	4.00	3.59	3.24	2.94	2.68	2.45	2.25	2.07	1.92	1.78	1.65	1.54	-	-	-
Multi	0.70	5.00	4.49	4.05	3.67	3.35	3.06	2.81	2.59	2.40	2.22	2.07	1.93	1.80	1.69	1.58

Maximum span under Line Load*

Line load kN/m	1.5	2.0	3.0
Single span (m)	4.05	3.04	2.03
Double / multi span (m)	4.86	3.65	2.43

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loading should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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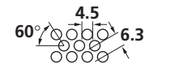
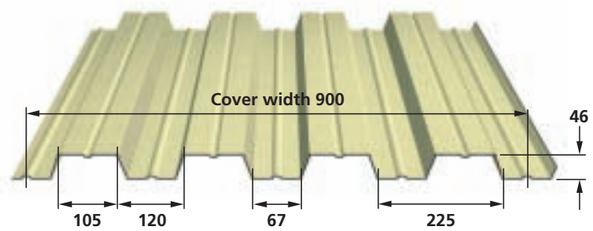
Tegral D46 web perforated

Colorcoat© Steel 220 N/mm²

Perforating pattern
4.5mm ø holes at 6.3mm triangular centres.
10% of total deck area.



Perforating pattern



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	6.68	2.18	27.10	2.18	27.40	7.24	15.55

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50
Single	0.70	4.39	4.02	3.71	3.45	3.22	3.02	2.84	2.68	2.54	2.30	1.98	1.72	1.50	1.32	-
Double	0.70	3.22	2.88	2.60	2.36	2.15	1.97	1.82	1.68	1.56	1.45	1.35	1.27	-	-	-
Multi	0.70	3.75	3.36	3.03	2.76	2.52	2.31	2.13	1.98	1.84	1.71	1.60	1.50	1.41	1.33	1.25

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50
Single	0.70	9.59	8.06	6.86	5.92	5.16	4.53	4.01	3.58	3.21	2.90	2.63	2.40	2.19	2.01	-
Double	0.70	9.60	8.07	6.88	5.93	5.17	4.54	4.02	3.59	3.22	2.91	2.64	2.40	-	-	-
Multi	0.70	12.01	10.09	8.60	7.41	6.46	5.67	5.03	4.48	4.02	3.63	3.29	3.00	2.75	2.52	2.32

Maximum span under Line Load*

Line load kN/m	1.5	2.0	3.0
Single span (m)	3.63	2.72	1.82
Double / multi span (m)	4.36	3.27	2.18

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loading should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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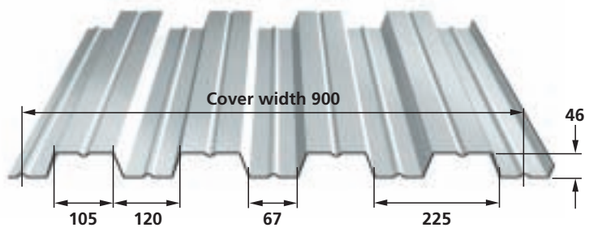
Tegral D46

Aluminium 160 N/mm²



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.90	0.90	3.36	2.17	38.90	1.98	38.90	12.61	28.66
1.20	1.20	4.48	3.05	54.74	2.64	54.74	21.11	45.88

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80
Single	0.90	3.40	2.74	2.25	1.86	1.56	1.32	-	-	-	-	-	-	-	-	-
	1.20	4.78	3.86	3.16	2.62	2.20	1.86	1.59	1.37	-	-	-	-	-	-	-
Double	0.90	3.18	2.87	2.61	2.38	2.18	2.01	1.85	1.72	1.59	1.49	1.39	1.30	-	-	-
	1.20	4.76	4.28	3.87	3.52	3.21	2.95	2.71	2.51	2.32	2.16	2.01	1.83	1.62	1.45	1.30
Multi	0.90	3.78	3.42	3.11	2.84	2.61	2.40	2.22	2.06	1.90	1.67	1.47	1.30	-	-	-
	1.20	5.68	5.12	4.63	4.22	3.86	3.54	3.27	3.02	2.68	2.35	2.06	1.83	1.62	1.45	1.30

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80
Single	0.90	5.08	4.13	3.40	2.84	2.39	2.03	-	-	-	-	-	-	-	-	-
	1.20	7.15	5.81	4.79	3.99	3.36	2.86	2.45	2.12	-	-	-	-	-	-	-
Double	0.90	5.91	5.15	4.53	4.01	3.58	3.21	2.90	2.63	2.39	2.19	2.01	1.85	-	-	-
	1.20	8.30	7.23	6.35	5.63	5.02	4.51	4.07	3.69	3.36	3.07	2.82	2.60	2.41	2.23	2.07
Multi	0.90	7.39	6.44	5.66	5.01	4.47	4.01	3.62	3.28	2.99	2.74	2.43	2.15	-	-	-
	1.20	10.37	9.04	7.94	7.04	6.28	5.63	5.08	4.61	4.20	3.84	3.42	3.03	2.69	2.40	2.15

Maximum span under Line Load*

Thickness mm	0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	3.62	2.72	1.81	5.08	3.81	2.54
Double / multi span (m)	4.35	3.26	2.17	6.10	4.58	3.05

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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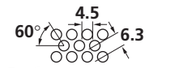
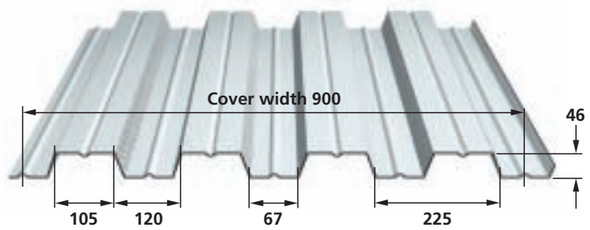
Tegral D46 web perforated

Aluminium 160 N/mm²

Perforating pattern
4.5mm ø holes at 6.3mm triangular centres.
10% of total deck area.



Perforating pattern



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.90	0.90	3.36	1.46	21.14	1.32	21.14	18.94	39.28
1.20	1.20	4.48	2.19	30.05	1.98	30.05	31.70	51.92

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70
Single	0.90	3.23	2.89	2.33	1.91	1.58	1.33	-	-	-	-	-	-	-	-	-
	1.20	5.12	4.07	3.28	2.69	2.23	1.87	1.58	1.35	-	-	-	-	-	-	-
Double	0.90	2.18	1.97	1.80	1.64	1.51	1.40	1.29	1.20	-	-	-	-	-	-	-
	1.20	3.36	3.04	2.75	2.51	2.30	2.12	1.96	1.82	1.69	1.57	1.47	1.38	1.29	1.22	-
Multi	0.90	2.55	2.31	2.11	1.93	1.78	1.65	1.53	1.42	1.33	1.24	-	-	-	-	-
	1.20	3.96	3.58	3.25	2.97	2.73	2.51	2.32	2.16	2.01	1.87	1.75	1.65	1.55	1.38	1.23

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70
Single	0.90	5.30	4.32	3.52	2.90	2.41	2.03	-	-	-	-	-	-	-	-	-
	1.20	7.07	6.08	4.94	4.07	3.39	2.86	2.43	2.08	-	-	-	-	-	-	-
Double	0.90	5.84	5.03	4.39	3.85	3.41	3.05	2.73	2.47	-	-	-	-	-	-	-
	1.20	8.17	7.05	6.14	5.40	4.78	4.26	3.83	3.45	3.13	2.85	2.61	2.40	2.21	2.04	-
Multi	0.90	7.30	6.29	5.48	4.82	4.27	3.81	3.42	3.08	2.80	2.55	-	-	-	-	-
	1.20	10.22	8.81	7.67	6.74	5.97	5.33	4.78	4.32	3.92	3.57	3.26	2.91	2.57	2.29	2.04

Maximum span under Line Load*

Thickness mm	0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	3.08	2.31	1.54	4.32	3.24	2.16
Double / multi span (m)	3.70	2.78	1.85	5.18	3.89	2.59

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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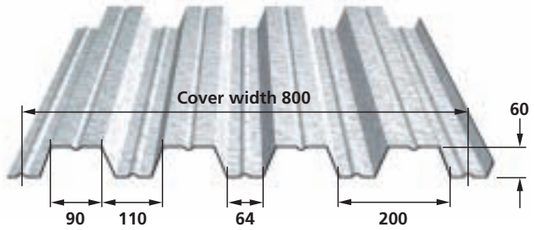
Tegral D60

Galvanised Steel 280 N/mm² and white lining enamel coated Galvanised steel.



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	8.44	4.62	57.13	4.83	59.10	24.99	42.67
0.75	0.71	9.04	5.04	63.44	5.21	63.50	22.02	49.34
0.90	0.86	10.85	6.62	78.01	6.53	77.31	39.89	72.20
1.20	1.16	14.47	9.58	106.10	8.81	104.80	67.46	114.67

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00
Single	0.70	3.89	2.96	2.30	1.83	1.48	1.21	-	-	-	-	-	-	-	-	-
	0.75	4.02	3.08	2.41	1.92	1.56	1.28	-	-	-	-	-	-	-	-	-
	0.90	5.31	4.04	3.14	2.50	2.01	1.65	1.37	-	-	-	-	-	-	-	-
	1.20	7.22	5.49	4.28	3.39	2.74	2.24	1.86	1.56	1.32	-	-	-	-	-	-
Double	0.70	3.61	3.15	2.78	2.47	2.21	1.99	1.80	1.64	1.50	1.38	1.23	-	-	-	-
	0.75	3.46	3.04	2.69	2.40	2.16	1.95	1.77	1.62	1.48	1.36	1.26	-	-	-	-
	0.90	5.27	4.58	4.03	3.57	3.18	2.86	2.58	2.34	2.14	1.90	1.64	1.42	1.24	-	-
	1.20	7.79	6.75	5.90	5.21	4.63	4.15	3.73	3.38	3.01	2.58	2.22	1.93	1.69	1.48	1.31
Multi	0.70	4.31	3.77	3.33	2.97	2.66	2.40	2.17	1.96	1.66	1.42	1.23	-	-	-	-
	0.75	4.11	3.62	3.21	2.87	2.58	2.34	2.13	1.94	1.76	1.51	1.30	-	-	-	-
	0.90	6.31	5.50	4.84	4.30	3.84	3.46	3.11	2.61	2.22	1.90	1.64	1.42	1.24	-	-
	1.20	9.38	8.14	7.14	6.31	5.62	5.03	4.22	3.55	3.01	2.58	2.22	1.93	1.69	1.48	1.31

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00
Single	0.70	5.32	4.47	3.53	2.83	2.30	1.89	-	-	-	-	-	-	-	-	-
	0.75	5.74	4.82	3.79	3.04	2.47	2.03	-	-	-	-	-	-	-	-	-
	0.90	7.20	5.87	4.62	3.70	3.01	2.48	2.06	-	-	-	-	-	-	-	-
	1.20	9.71	7.96	6.26	5.01	4.07	3.36	2.80	2.36	2.00	-	-	-	-	-	-
Double	0.70	5.09	4.28	3.64	3.14	2.74	2.41	2.13	1.90	1.71	1.54	1.40	-	-	-	-
	0.75	5.55	4.67	3.98	3.43	2.99	2.63	2.33	2.07	1.86	1.68	1.52	-	-	-	-
	0.90	7.29	6.13	5.22	4.50	3.92	3.45	3.05	2.72	2.45	2.21	2.00	1.82	1.67	-	-
	1.20	23.89	17.55	13.44	10.62	8.60	7.11	5.97	5.09	4.39	3.82	3.36	2.98	2.65	2.38	2.15
Multi	0.70	6.36	5.35	4.56	3.93	3.42	3.01	2.66	2.38	2.13	1.93	1.75	-	-	-	-
	0.75	6.94	5.83	4.97	4.29	3.73	3.28	2.91	2.59	2.33	2.10	1.91	-	-	-	-
	0.90	9.12	7.66	6.53	5.63	4.90	4.31	3.82	3.41	3.06	2.76	2.50	2.28	2.02	-	-
	1.20	13.20	11.09	9.45	8.15	7.10	6.24	5.52	4.93	4.42	3.99	3.60	3.13	2.74	2.41	2.14

Maximum span under Line Load*

Thickness mm	0.70			0.75			0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	7.70	5.78	3.85	8.40	6.30	4.20	11.03	8.28	5.52	15.97	11.98	7.98
Double / multi span (m)	9.24	6.93	4.62	10.08	7.56	5.04	13.24	9.93	6.62	19.16	14.37	9.58

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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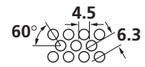
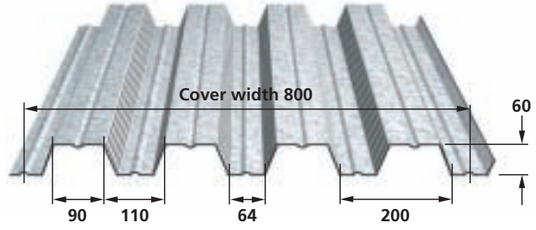
Tegral D60 web perforated

Galvanised Steel 280 N/mm²

Perforating pattern
4.5mm ø holes at 6.3mm triangular centres.
13% of total deck area.



Perforating pattern



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	8.44	4.62	57.13	4.83	59.10	24.99	42.67
0.75	0.71	8.14	4.15	55.00	4.14	55.00	14.22	24.67
0.90	0.86	10.85	6.62	78.01	6.53	77.31	39.89	72.20
1.20	1.16	14.47	9.58	106.10	8.81	104.80	67.46	114.67

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80
Single	0.70	4.16	3.47	2.64	2.06	1.63	1.32	-	-	-	-	-	-	-	-	-
	0.75	4.74	3.74	2.85	2.22	1.76	1.42	-	-	-	-	-	-	-	-	-
	0.90	6.12	4.53	3.45	2.68	2.13	1.72	1.41	-	-	-	-	-	-	-	-
	1.20	8.25	6.11	4.65	3.62	2.87	2.32	1.90	1.57	1.32	-	-	-	-	-	-
Double	0.70	2.54	2.21	1.95	1.74	1.56	1.40	1.27	-	-	-	-	-	-	-	-
	0.75	2.86	2.49	2.20	1.96	1.75	1.58	1.43	1.30	-	-	-	-	-	-	-
	0.90	3.86	3.36	2.95	2.62	2.34	2.11	1.91	1.74	1.59	1.46	1.34	1.24	-	-	-
	1.20	5.98	5.19	4.54	4.02	3.58	3.21	2.89	2.63	2.39	2.19	2.01	1.86	1.65	1.44	1.26
Multi	0.70	2.99	2.62	2.31	2.06	1.85	1.67	1.52	1.39	1.27	-	-	-	-	-	-
	0.75	3.37	2.95	2.60	2.32	2.08	1.88	1.71	1.56	1.43	1.31	1.21	-	-	-	-
	0.90	4.56	3.98	3.51	3.12	2.79	2.52	2.28	2.08	1.90	1.75	1.61	1.40	1.22	-	-
	1.20	7.10	6.17	5.42	4.80	4.28	3.85	3.48	3.16	2.88	2.57	2.20	1.89	1.65	1.44	1.26

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80
Single	0.70	4.98	4.12	3.46	2.95	2.44	1.99	-	-	-	-	-	-	-	-	-
	0.75	5.53	4.57	3.84	3.27	2.63	2.14	-	-	-	-	-	-	-	-	-
	0.90	7.20	5.87	4.62	3.70	3.01	2.48	2.06	-	-	-	-	-	-	-	-
	1.20	9.71	7.96	6.26	5.01	4.07	3.36	2.80	2.36	2.00	-	-	-	-	-	-
Double	0.70	5.09	4.28	3.64	3.14	2.74	2.41	2.13	1.90	1.71	1.54	1.40	-	-	-	-
	0.75	5.53	4.57	3.84	3.27	2.82	2.46	2.16	1.91	-	-	-	-	-	-	-
	0.90	7.60	6.28	5.28	4.50	3.88	3.38	2.97	2.63	2.35	2.11	1.90	1.72	-	-	-
	1.20	11.55	9.54	8.02	6.83	5.89	5.13	4.51	4.00	3.56	3.20	2.89	2.62	2.39	2.18	2.01
Multi	0.70	6.07	5.02	4.21	3.59	3.10	2.70	2.37	2.10	1.87	-	-	-	-	-	-
	0.75	6.91	5.71	4.80	4.09	3.53	3.07	2.70	2.39	2.13	1.91	1.73	-	-	-	-
	0.90	9.50	7.85	6.60	5.62	4.85	4.22	3.71	3.29	2.93	2.63	2.38	2.15	1.96	-	-
	1.20	14.44	11.93	10.03	8.54	7.37	6.42	5.64	5.00	4.46	4.00	3.55	3.07	2.67	2.33	2.06

Maximum span under Line Load*

Thickness mm	0.70			0.75			0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	6.07	4.55	3.03	6.91	5.18	3.46	9.50	7.13	4.75	14.44	10.83	7.22
Double / multi span (m)	7.28	5.46	3.64	8.29	6.22	4.15	11.40	8.55	5.70	17.32	12.99	8.66

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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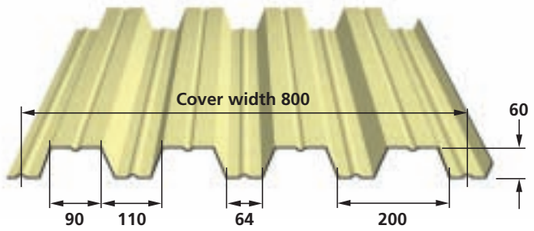

Refer to Tegral for perforated option.

Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	8.44	3.71	58.91	3.76	59.10	22.15	37.82

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20
Single	0.70	10.55	8.79	6.85	5.41	4.01	3.05	2.37	1.88	1.52	1.25	-	-	-	-	-
Double	0.70	5.93	4.87	4.07	3.46	2.98	2.60	2.29	2.03	1.81	1.63	1.47	1.33	1.22	-	-
Multi	0.70	7.02	5.78	4.85	4.14	3.57	3.12	2.75	2.44	2.18	1.96	1.78	1.62	1.48	1.35	1.24

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20
Single	0.70	10.23	7.83	6.19	5.01	4.14	3.48	2.97	2.56	2.23	1.89	-	-	-	-	-
Double	0.70	10.10	7.73	6.11	4.95	4.09	3.44	2.93	2.52	2.20	1.93	1.71	1.53	1.37	-	-
Multi	0.70	12.62	9.66	7.63	6.18	5.11	4.29	3.66	3.15	2.75	2.42	2.14	1.91	1.71	1.55	1.40

Maximum span under Line Load*

Line load kN/m	1.5	2.0	3.0
Single span (m)	6.18	4.64	3.09
Double / multi span (m)	7.42	5.57	3.71

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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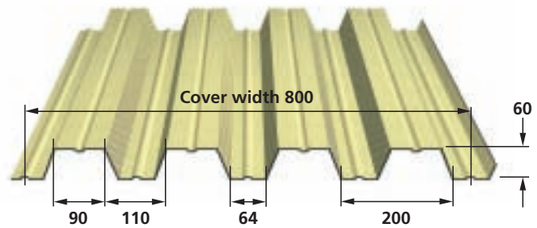

Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	7.01	3.22	51.10	3.12	51.10	11.07	18.91

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00	3.10	3.20
Single	0.70	4.10	3.89	3.69	3.52	3.38	3.02	2.65	2.33	2.06	1.83	1.64	1.98	1.32	-	-
Double	0.70	2.55	2.36	2.19	2.05	1.91	1.79	1.69	1.50	1.50	1.42	1.34	1.27	1.21	-	-
Multi	0.70	3.00	2.78	2.59	2.42	2.26	2.12	2.00	1.88	1.78	1.68	1.60	1.51	1.44	1.37	1.31

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00	3.10	3.20
Single	0.70	5.13	4.61	4.16	3.77	3.44	3.14	2,89	2.66	2.46	2.28	2.12	1.98	1.85	-	-
Double	0.70	5.30	4.76	4.29	3.90	3.55	3.25	2.98	2.76	2.54	2.36	2.19	2.04	1.91	-	-
Multi	0.70	6.63	5.95	5.37	4.87	4.44	4.05	3.73	3.44	3.18	2.95	2.74	2.55	2.39	2.23	2.10

Maximum span under Line Load*

Line load kN/m	1.5	2.0	3.0
Single span (m)	6.18	4.64	3.09
Double / multi span (m)	7.42	5.57	3.71

Data required

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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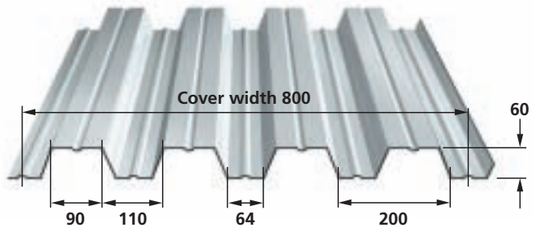
Aluminium 160 N/mm²



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.90	0.90	3.78	3.75	79.52	3.38	79.52	19.09	34.90
1.20	1.20	5.04	5.10	105.75	4.59	105.75	31.62	61.74

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20
Single	0.90	1.85	1.61	1.41	1.24	-	-	-	-	-	-	-	-	-	-	-
	1.20	2.46	2.14	1.87	1.65	1.46	1.29	-	-	-	-	-	-	-	-	-
Double	0.90	2.63	2.45	2.29	2.15	2.02	1.90	1.79	1.69	1.59	1.44	1.31	-	-	-	-
	1.20	3.89	3.62	3.38	3.16	2.96	2.78	2.61	2.34	2.11	1.91	1.74	1.58	1.45	1.32	1.22
Multi	0.90	3.15	2.94	2.75	2.58	2.42	2.19	1.96	1.76	1.59	1.44	1.31	-	-	-	-
	1.20	4.68	4.36	4.07	3.68	3.27	2.91	2.61	2.34	2.11	1.91	1.74	1.58	1.45	1.32	1.22

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20
Single	0.90	2.68	2.34	2.06	1.82	-	-	-	-	-	-	-	-	-	-	-
	1.20	3.56	3.12	2.74	2.43	2.16	1.93	-	-	-	-	-	-	-	-	-
Double	0.90	4.13	3.78	3.47	3.20	2.96	2.74	2.55	2.38	2.22	2.08	1.95	-	-	-	-
	1.20	5.62	5.14	4.72	4.35	4.02	3.73	3.47	3.23	3.02	2.83	2.66	2.50	2.33	2.13	1.96
Multi	0.90	5.17	4.73	4.34	4.00	3.70	3.43	3.13	2.82	2.55	2.31	2.10	-	-	-	-
	1.20	7.02	6.43	5.90	5.44	5.03	4.64	4.16	3.75	3.38	3.07	2.79	2.54	2.33	2.13	1.96

Maximum span under Line Load*

Thickness mm	0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	6.25	4.69	3.13	8.50	6.38	4.25
Double / multi span (m)	7.50	5.63	3.75	10.20	7.65	5.10

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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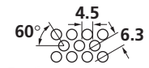
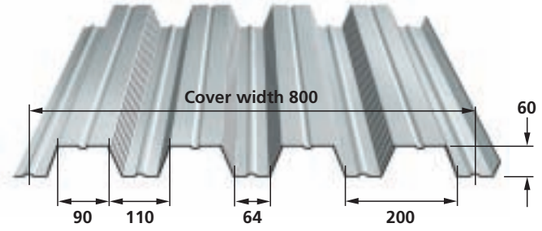
Tegral D60 web perforated

Aluminium 160 N/mm²

Perforating pattern
4.5mm ø holes at 6.3mm triangular centres.
13% of total deck area.



Perforating pattern



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.90	0.90	3.13	3.18	67.60	2.87	67.60	9.54	17.45
1.20	1.20	4.18	4.33	89.89	3.90	89.89	15.81	30.87

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70
Single	0.90	2.12	1.82	1.57	1.37	-	-	-	-	-	-	-	-	-	-	-
	1.20	2.82	2.42	2.09	1.82	1.59	1.40	1.24	-	-	-	-	-	-	-	-
Double	0.90	1.94	1.81	1.70	1.59	1.50	1.41	1.33	1.26	-	-	-	-	-	-	-
	1.20	2.96	2.76	2.58	2.41	2.26	2.13	2.01	1.89	1.79	1.70	1.61	1.53	1.45	1.35	1.23
Multi	0.90	2.29	2.14	2.00	1.88	1.77	1.67	1.58	1.49	1.42	1.35	1.28	1.22	-	-	-
	1.20	3.51	3.27	3.06	2.86	2.69	2.53	2.39	2.26	2.14	1.99	1.80	1.63	1.48	1.35	1.23

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70
Single	0.90	3.03	2.62	2.28	1.99	-	-	-	-	-	-	-	-	-	-	-
	1.20	4.03	3.48	3.03	2.65	2.33	2.06	1.83	-	-	-	-	-	-	-	-
Double	0.90	4.24	3.85	3.50	3.21	2.94	2.71	2.51	2.33	-	-	-	-	-	-	-
	1.20	5.77	5.24	4.77	4.37	4.01	3.69	3.42	3.17	2.95	2.75	2.57	2.40	2.26	2.12	1.98
Multi	0.90	5.30	4.81	4.38	4.01	3.68	3.39	3.14	2.91	2.66	2.40	2.16	1.96	-	-	-
	1.20	7.22	6.55	5.96	5.46	5.01	4.62	4.27	3.95	3.54	3.19	2.88	2.61	2.37	2.16	1.98

Maximum span under Line Load*

Thickness mm	0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	5.30	3.98	2.65	7.22	5.41	3.61
Double / multi span (m)	6.36	4.77	3.18	8.66	6.50	4.33

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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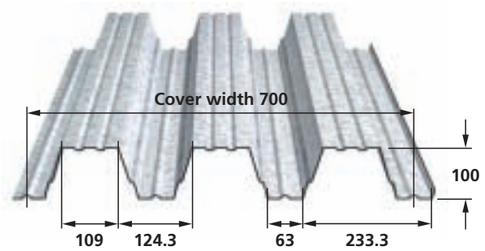
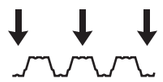
Galvanised Steel 280 N/mm² and white lining enamel coated Galvanised steel.



Ultimate Section Properties

			Broad Flange in Compression		Narrow Flange in Compression		Bearing 50mm minimum	
Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Moment Capacity kNm/m	Moment of Inertia cm⁴/m	Moment Capacity kNm/m	Moment of Inertia cm⁴/m	Web Crushing kNm/m	Shear Capacity kNm/m
0.70	0.66	9.65	10.04	179.90	7.66	180.20	25.62	52.06
0.75	0.71	10.33	10.80	193.53	8.24	193.85	23.00	61.94
0.90	0.86	12.40	13.39	235.90	11.10	236.80	43.41	90.74
1.20	1.16	16.54	18.01	321.80	15.46	323.20	77.05	164.58

Imposed load - deflection limit span / 250



Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00
Single	0.70	2.33	1.91	1.59	1.33	-	-	-	-	-	-	-	-	-	-	-
	0.75	2.41	1.98	1.65	1.38	-	-	-	-	-	-	-	-	-	-	-
	0.90	3.06	2.50	2.08	1.74	1.48	1.26	-	-	-	-	-	-	-	-	-
	1.20	4.17	3.42	2.84	2.38	2.02	1.72	1.48	1.29	-	-	-	-	-	-	-
Double	0.70	2.02	1.83	1.66	1.52	1.39	1.28	-	-	-	-	-	-	-	-	-
	0.75	2.00	1.81	1.65	1.51	1.39	1.28	-	-	-	-	-	-	-	-	-
	0.90	3.13	2.82	2.56	2.33	2.13	1.96	1.81	1.67	1.55	1.44	1.34	1.26	-	-	-
	1.20	4.77	4.29	3.88	3.52	3.21	2.94	2.71	2.50	2.31	2.15	2.00	1.78	1.59	1.43	1.29
Multi	0.70	2.42	2.19	1.99	1.82	1.67	1.54	1.42	1.32	1.23	-	-	-	-	-	-
	0.75	2.38	2.16	1.97	1.81	1.66	1.54	1.42	1.32	1.23	-	-	-	-	-	-
	0.90	3.76	3.39	3.08	2.81	2.58	2.37	2.19	2.02	1.88	1.66	1.47	1.31	-	-	-
	1.20	5.77	5.19	4.69	4.27	3.90	3.58	3.29	2.94	2.58	2.27	2.01	1.78	1.59	1.43	1.29

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00
Single	0.70	2.91	2.55	2.26	2.02	-	-	-	-	-	-	-	-	-	-	-
	0.75	3.13	2.75	2.43	2.17	-	-	-	-	-	-	-	-	-	-	-
	0.90	4.21	3.70	3.24	2.73	2.32	1.99	-	-	-	-	-	-	-	-	-
	1.20	5.86	5.15	4.42	3.72	3.17	2.71	2.34	2.04	-	-	-	-	-	-	-
Double	0.70	3.81	3.35	2.96	2.64	2.37	2.14	-	-	-	-	-	-	-	-	-
	0.75	4.10	3.60	3.19	2.84	2.55	2.30	-	-	-	-	-	-	-	-	-
	0.90	5.08	4.46	3.95	3.53	3.17	2.86	2.59	2.36	2.16	1.98	1.83	1.69	-	-	-
	1.20	6.83	6.00	5.32	4.74	4.26	3.84	3.48	3.18	2.91	2.67	2.46	2.27	2.11	1.96	1.83
Multi	0.70	4.76	4.18	3.71	3.31	2.97	2.68	2.43	2.21	2.02	-	-	-	-	-	-
	0.75	5.12	4.50	3.99	3.56	3.19	2.88	2.61	2.38	2.18	-	-	-	-	-	-
	0.90	6.35	5.58	4.94	4.41	3.96	3.57	3.24	2.95	2.70	2.48	2.29	2.11	-	-	-
	1.20	8.54	7.50	6.65	5.93	5.32	4.80	4.36	3.97	3.63	3.34	3.07	2.84	2.64	2.38	2.14

Maximum span under Line Load*

Thickness mm	0.70			0.75			0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	16.73	12.55	8.37	18.00	13.50	9.00	22.32	16.74	11.16	30.02	22.51	15.01
Double / multi span (m)	20.08	15.06	10.04	21.60	16.20	10.80	26.78	20.09	13.39	36.02	27.02	18.01

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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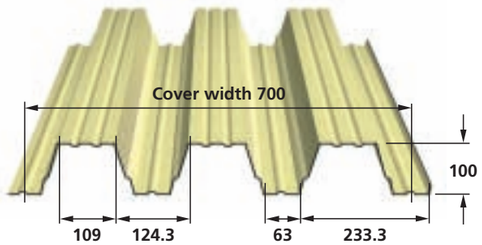
Tegral D100 web perforated

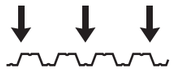
Galvanised Steel 220 N/mm²



Ultimate Section Properties

			Broad Flange in Compression		Narrow Flange in Compression		Bearing 50mm minimum	
Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Moment Capacity kNm/m	Moment of Inertia cm⁴/m	Moment Capacity kNm/m	Moment of Inertia cm⁴/m	Web Crushing kNm/m	Shear Capacity kNm/m
0.70	0.66	8.40	5.69	141.40	4.94	141.40	11.35	23.75

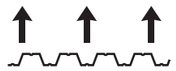
Imposed load - deflection limit span / 250



Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span



Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00
Single	0.70	6.31	5.41	4.73	4.21	3.78	3.44	3.15	2.91	2.70	2.52	2.37	2.23	2.08	1.75	1.50
Double	0.70	4.94	4.09	3.46	2.97	2.59	2.29	2.03	1.82	1.64	1.49	1.36	1.25	-	-	-
Multi	0.70	5.73	4.75	4.03	3.47	3.03	2.69	2.39	2.14	1.94	1.75	1.61	1.48	1.36	1.26	-

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00
Single	0.70	18.20	13.44	10.29	8.13	6.59	5.44	4.57	3.90	3.36	2.93	2.57	2.28	2.03	1.82	1.65
Double	0.70	21.06	15.49	11.85	9.37	7.59	6.27	5.27	4.49	3.67	3.37	2.96	2.53	-	-	-
Multi	0.70	26.53	19.35	14.82	11.71	9.49	7.84	6.59	5.61	4.85	4.22	3.71	3.28	2.93	22.63	-

Maximum span under Line Load*

Thickness mm	0.70			0.75			0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	16.73	12.55	8.37	Data required						30.02	22.51	15.01
Double / multi span (m)	20.08	15.06	10.04	21.60	16.20	10.80	26.78	20.09	13.39	36.02	27.02	18.01

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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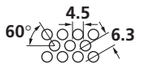
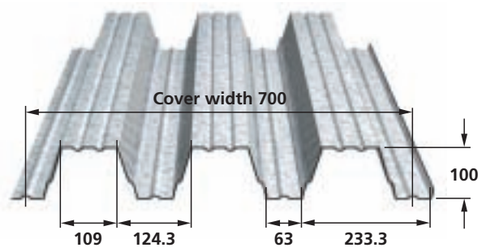
Tegral D100 web perforated

Galvanised Steel 280 N/mm²

Perforating pattern
4.5mm ø holes at 6.3mm triangular centres.
12% of total deck area.



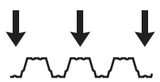
Perforating pattern



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	8.40	6.43	141.40	5.89	141.40	12.81	26.03
0.75	0.71	9.30	7.25	152.10	6.50	152.10	14.85	30.97
0.90	0.86	10.79	9.68	184.20	8.34	184.20	21.71	45.37
1.20	1.16	14.39	14.71	248.20	11.68	248.20	38.52	82.29

Imposed load - deflection limit span / 250



Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.215	6.50	6.75
		SPAN(metres)														
Single	0.70	2.63	2.27	1.83	1.50	1.25	-	-	-	-	-	-	-	-	-	-
	0.75	3.05	2.44	1.97	1.61	1.34	-	-	-	-	-	-	-	-	-	-
	0.90	3.71	2.95	2.39	1.96	1.62	1.36	-	-	-	-	-	-	-	-	-
	1.20	5.00	3.98	3.21	2.64	2.19	1.84	1.55	1.33	-	-	-	-	-	-	-
Double	0.70	1.54	1.39	1.25	-	-	-	-	-	-	-	-	-	-	-	-
	0.75	1.75	1.57	1.42	1.29	-	-	-	-	-	-	-	-	-	-	-
	0.90	2.41	2.16	1.95	1.77	1.62	1.48	1.36	1.26	-	-	-	-	-	-	-
	1.20	3.81	3.41	3.06	2.77	2.52	2.30	2.11	1.94	1.79	1.66	1.54	1.44	1.34	1.26	-
Multi	0.70	1.82	1.64	1.49	1.35	1.24	-	-	-	-	-	-	-	-	-	-
	0.75	2.07	1.86	1.69	1.54	1.41	1.29	-	-	-	-	-	-	-	-	-
	0.90	2.86	2.57	2.32	2.11	1.93	1.77	1.63	1.51	1.40	1.30	1.21	-	-	-	-
	1.20	4.55	4.07	3.66	3.32	3.02	2.76	2.53	2.34	2.16	2.00	1.86	1.74	1.54	1.37	1.23

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.215	6.50	6.75
		SPAN(metres)														
Single	0.70	2.97	2.56	2.23	1.96	1.74	-	-	-	-	-	-	-	-	-	-
	0.75	3.28	2.83	2.47	2.17	1.92	-	-	-	-	-	-	-	-	-	-
	0.90	4.21	3.63	3.16	2.78	2.46	2.12	-	-	-	-	-	-	-	-	-
	1.20	5.90	5.09	4.43	3.89	3.39	2.86	2.43	2.08	-	-	-	-	-	-	-
Double	0.70	3.25	2.80	2.44	-	-	-	-	-	-	-	-	-	-	-	-
	0.75	3.66	3.15	2.75	2.42	-	-	-	-	-	-	-	-	-	-	-
	0.90	4.89	4.21	3.67	3.23	2.86	2.55	2.29	2.06	-	-	-	-	-	-	-
	1.20	7.43	6.40	5.58	4.90	4.34	3.87	3.48	3.14	2.85	2.59	2.37	2.18	2.01	1.86	-
Multi	0.70	4.06	3.50	3.05	2.68	2.37	-	-	-	-	-	-	-	-	-	-
	0.75	4.57	3.94	3.44	3.02	2.67	2.39	-	-	-	-	-	-	-	-	-
	0.90	6.11	5.27	4.59	4.03	3.57	3.19	2.86	2.58	2.34	2.13	1.95	-	-	-	-
	1.20	9.28	8.01	6.97	6.13	5.43	4.84	4.35	3.92	3.56	3.24	2.97	2.72	2.51	2.29	2.04

Maximum span under Line Load*

Thickness mm	0.70			0.75			0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	10.72	8.04	5.36	12.08	9.06	6.04	16.13	12.10	8.06	24.52	18.39	12.26
Double / multi span (m)	12.86	9.64	6.43	14.49	10.87	7.25	19.35	14.51	9.68	29.42	22.07	14.71

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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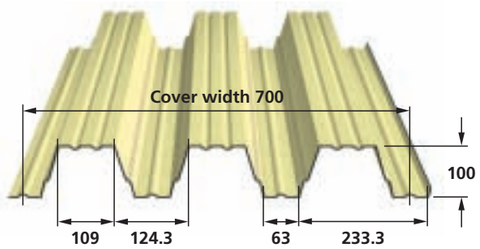
Tegral D100

Colorcoat© Steel 220 N/mm²

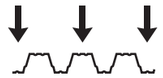
Refer to Tegral for perforated option.



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.70	0.66	9.65	7.67	179.70	6.04	180.20	22.71	47.47

Imposed load - deflection limit span / 250



Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20
		SPAN(metres)														
Single	0.70	6.88	6.31	5.82	5.41	4.64	3.80	3.15	2.64	2.23	1.91	1.64	1.42	1.24	-	-
Double	0.70	3.77	3.32	2.94	2.63	2.37	2.15	1.95	1.79	1.64	1.51	1.40	1.30	1.21	-	-
Multi	0.70	4.46	3.94	3.50	3.14	2.83	2.57	2.34	2.14	1.97	1.82	1.68	1.56	1.45	1.36	1.27

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20
		SPAN(metres)														
Single	0.70	6.66	5.59	4.77	4.11	3.58	3.15	2.79	2.49	2.23	2.01	1.83	1.66	1.52	-	-
Double	0.70	8.45	7.10	6.05	5.22	4.55	3.99	3.54	3.16	2.83	2.56	2.32	2.11	1.93	-	-
Multi	0.70	10.56	8.88	7.56	6.52	5.68	4.99	4.42	3.95	3.54	3.20	2.90	2.64	2.42	2.22	2.05

Maximum span under Line Load*

Line load kN/m	1.5	2.0	3.0
Single span (m)	12.78	9.59	6.39
Double / multi span (m)	15.34	11.51	7.67

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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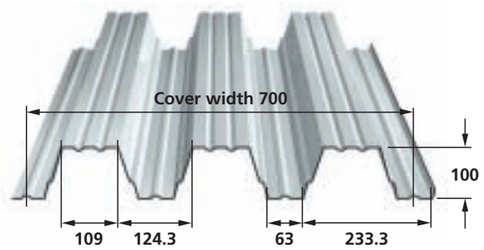
Tegral D100

Aluminium 160 N/mm²



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.90	0.90	4.32	7.48	236.10	6.73	236.10	16.74	22.19
1.20	1.20	5.76	9.94	314.50	8.94	314.50	27.74	52.45

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80
Single	0.90	5.07	4.17	3.25	2.58	2.08	1.70	1.41	-	-	-	-	-	-	-	-
	1.20	7.30	5.56	4.33	3.44	2.77	2.27	1.88	1.58	1.34	-	-	-	-	-	-
Double	0.90	3.28	2.91	2.61	2.35	2.13	1.94	1.78	1.64	1.51	1.40	1.30	1.21	-	-	-
	1.20	5.00	4.42	3.94	3.53	3.19	2.90	2.65	2.43	2.23	2.06	1.91	1.78	1.66	1.47	1.30
Multi	0.90	3.85	3.43	3.07	2.77	2.52	2.30	2.11	1.94	1.80	1.66	1.55	1.44	1.26	-	-
	1.20	5.89	5.22	4.66	4.19	3.79	3.45	3.15	2.90	2.67	2.47	2.20	1.91	1.68	1.47	1.30

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80
Single	0.90	7.42	6.12	4.81	3.85	3.13	2.58	2.15	-	-	-	-	-	-	-	-
	1.20	9.85	8.15	6.41	5.14	4.17	3.44	2.87	2.42	2.05	-	-	-	-	-	-
Double	0.90	8.24	6.93	5.90	5.09	4.43	3.90	3.45	3.08	2.76	2.49	2.26	2.06	-	-	-
	1.20	10.95	9.20	7.84	6.76	5.89	5.18	4.59	4.09	3.67	3.31	3.01	2.74	2.51	2.30	2.12
Multi	0.90	10.30	8.66	7.38	6.36	5.54	4.87	4.31	3.85	3.45	3.12	2.75	2.40	2.10	-	-
	1.20	13.69	11.50	9.80	8.45	7.36	6.47	5.73	5.11	4.59	4.14	3.67	3.19	2.79	2.46	2.17

Maximum span under Line Load*

Thickness mm	0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	12.47	9.35	6.23	16.57	12.43	8.28
Double / multi span (m)	14.96	11.22	7.48	19.88	14.91	9.94

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

New address from
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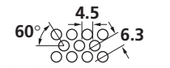
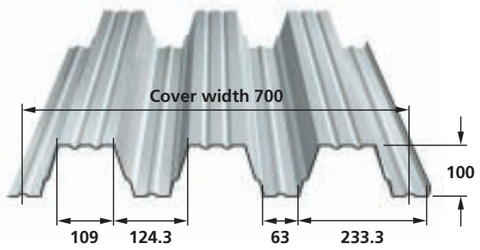
Tegral D100 web perforated

Aluminium 160 N/mm²

Perforating pattern
4.5mm ø holes at 6.3mm triangular centres.
12% of total deck area.



Perforating pattern



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.90	0.90	3.75	3.36	215.05	5.72	215.05	8.37	11.10
1.20	1.20	5.01	8.45	256.80	6.92	256.80	13.87	26.22

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60
Single	0.90	3.10	2.79	2.54	2.33	2.15	1.99	1.86	1.55	1.29	-	-	-	-	-	-
	1.20	5.14	4.62	4.20	3.85	3.53	2.81	2.26	1.85	1.54	1.29	-	-	-	-	-
Double	0.90	2.45	2.16	1.92	1.72	1.55	1.41	1.29	-	-	-	-	-	-	-	-
	1.20	3.78	3.30	2.92	2.60	2.34	2.12	1.93	1.76	1.62	1.49	1.38	1.28	1.20	-	-
Multi	0.90	2.84	2.50	2.23	2.00	1.81	1.65	1.51	1.39	1.28	-	-	-	-	-	-
	1.20	4.40	3.85	3.41	3.05	2.74	2.49	2.26	2.07	1.91	1.76	1.63	1.52	1.42	1.33	1.24

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60
Single	0.90	9.42	7.63	6.30	5.30	4.39	3.51	2.85	2.35	1.96	-	-	-	-	-	-
	1.20	11.40	9.23	7.63	6.41	5.24	4.19	3.41	2.81	2.34	1.97	-	-	-	-	-
Double	0.90	10.47	8.48	7.01	5.89	5.02	4.33	3.77	-	-	-	-	-	-	-	-
	1.20	13.91	11.27	9.31	7.82	6.67	5.75	5.01	4.40	3.90	3.48	3.12	2.82	2.55	-	-
Multi	0.90	13.09	10.60	8.76	7.36	6.27	5.41	4.71	4.14	3.67	-	-	-	-	-	-
	1.20	17.39	14.08	11.64	9.78	8.33	7.19	6.26	5.50	4.87	4.35	3.90	3.47	3.00	2.61	2.28

Maximum span under Line Load*

Thickness mm	0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	10.60	7.95	5.30	14.08	10.56	7.04
Double / multi span (m)	12.72	9.54	6.36	16.90	12.68	8.45

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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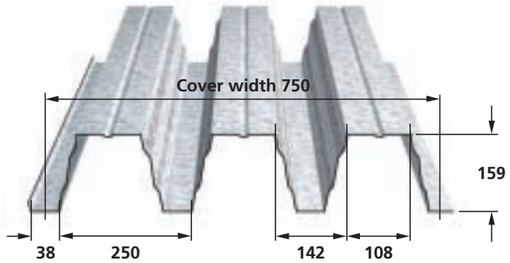
Tegral D159

Galvanised Steel 320 N/mm² and white lining enamel coated Galvanised steel.



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.75	0.71	11.80	14.45	433.26	12.18	440.66	29.10	29.40
0.90	0.84	14.22	19.14	533.60	16.63	533.60	42.53	52.20
1.25	1.21	19.75	30.25	750.30	26.18	750.30	81.82	145.08

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
Single	0.75	2.20	1.88	1.62	1.40	1.21	-	-	-	-	-	-	-	-	-	-
	0.90	2.72	2.32	1.99	1.72	1.50	1.31	-	-	-	-	-	-	-	-	-
	1.25	3.82	3.27	2.81	2.43	2.11	1.84	1.61	1.41	1.24	-	-	-	-	-	-
Double	0.75	1.65	1.52	1.41	1.31	1.21	-	-	-	-	-	-	-	-	-	-
	0.90	2.35	2.17	2.00	1.86	1.72	1.61	1.50	1.40	1.31	1.23	-	-	-	-	-
	1.25	4.06	3.74	3.45	3.20	2.97	2.76	2.57	2.40	2.25	2.11	1.98	1.86	1.75	1.65	1.56
Multi	0.75	2.13	1.96	1.82	1.69	1.57	1.47	1.37	1.29	1.21	-	-	-	-	-	-
	0.90	2.84	2.62	2.43	2.26	2.10	1.96	1.83	1.72	1.61	1.52	1.43	1.34	1.27	1.20	-
	1.25	4.93	4.54	4.20	3.90	3.63	3.38	3.16	2.95	2.77	2.60	2.45	2.25	2.03	1.84	1.66

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
Single	0.75	2.71	2.47	2.26	2.08	1.92	-	-	-	-	-	-	-	-	-	-
	0.90	3.69	3.36	3.07	2.82	2.60	2.41	-	-	-	-	-	-	-	-	-
	1.25	5.78	5.26	4.81	4.34	3.84	3.42	3.06	2.75	2.49	-	-	-	-	-	-
Double	0.75	3.20	2.91	2.66	2.45	2.26	-	-	-	-	-	-	-	-	-	-
	0.90	4.22	3.84	3.51	3.23	2.98	2.75	2.56	2.38	2.22	2.08	-	-	-	-	-
	1.25	6.65	6.05	5.53	5.07	4.68	4.32	4.01	3.73	3.49	3.26	3.06	2.88	2.71	2.56	2.43
Multi	0.75	3.97	3.61	3.30	3.03	2.79	2.58	2.40	2.23	-	-	-	-	-	-	-
	0.90	5.24	4.77	4.36	4.00	3.68	3.41	3.16	2.94	2.74	2.57	2.41	2.26	2.13	2.01	-
	1.25	8.26	7.51	6.86	6.29	5.80	5.36	4.97	4.62	4.31	4.03	3.78	3.55	3.34	3.16	2.98

Maximum span under Line Load*

Thickness mm	0.70			0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	17.67	14.96	11.23	20.72	18.00	13.98	25.59	23.10	19.06
Double / multi span (m)	22.17	18.57	13.75	26.22	22.53	17.25	32.79	29.34	23.86

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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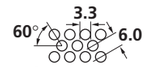
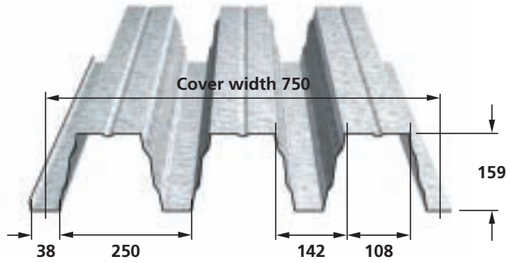
Tegral D159 web perforated

Galvanised Steel 320 N/mm²

Perforating pattern
3.3mm ø holes at 6.0mm triangular centres.
8% of total deck area.



Perforating pattern



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.75	0.71	11.80	11.17	347.79	8.11	348.80	14.55	14.70
0.90	0.84	14.22	15.39	424.60	11.46	424.60	21.27	26.10
1.25	1.21	19.75	24.59	596.90	18.86	596.90	40.91	72.54

Imposed load - deflection limit span / 250

Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00
Single	0.75	2.66	2.47	2.31	2.17	2.04	1.93	1.75	1.49	1.28	-	-	-	-	-	-
	0.90	3.91	3.64	3.41	3.20	3.00	2.52	2.13	1.82	1.56	1.34	-	-	-	-	-
	1.25	7.60	7.08	6.14	5.07	4.22	3.55	3.00	2.56	2.19	1.89	1.64	1.42	1.24	-	-
Double	0.75	1.59	1.43	1.30	-	-	-	-	-	-	-	-	-	-	-	-
	0.90	2.32	2.09	1.89	1.73	1.58	1.45	1.33	1.23	-	-	-	-	-	-	-
	1.25	4.24	3.82	3.46	3.15	2.87	2.63	2.42	2.24	2.07	1.92	1.78	1.66	1.55	1.45	1.35
Multi	0.75	1.89	1.71	1.55	1.42	1.30	-	-	-	-	-	-	-	-	-	-
	0.90	2.75	2.49	2.27	2.07	1.90	1.74	1.61	1.49	1.38	1.28	-	-	-	-	-
	1.25	5.05	4.56	4.14	3.77	3.46	3.18	2.93	2.71	2.51	2.33	2.17	2.03	1.90	1.78	1.67

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00
Single	0.75	3.64	3.19	2.82	2.51	2.25	2.03	1.85	1.68	1.54	-	-	-	-	-	-
	0.90	5.13	4.48	3.96	3.52	3.16	2.85	2.58	2.36	2.16	1.99	-	-	-	-	-
	1.25	8.41	7.35	6.48	5.76	5.16	4.65	4.22	3.84	3.52	3.24	2.99	2.76	2.48	-	-
Double	0.75	4.98	4.35	3.84	-	-	-	-	-	-	-	-	-	-	-	-
	0.90	6.84	5.98	5.27	4.68	4.19	3.78	3.42	3.12	-	-	-	-	-	-	-
	1.25	10.90	9.52	8.39	7.45	6.67	6.01	5.44	4.95	4.53	4.16	3.84	3.55	3.30	3.07	2.87
Multi	0.75	6.19	5.41	4.77	4.24	3.79	-	-	-	-	-	-	-	-	-	-
	0.90	8.52	7.44	6.55	5.82	5.21	4.69	4.24	3.86	3.53	3.24	-	-	-	-	-
	1.25	13.57	11.85	10.44	9.27	8.29	7.46	6.75	6.14	5.61	5.15	4.75	4.39	4.07	3.79	3.54

Maximum span under Line Load*

Thickness mm	0.70			0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	14.47	12.07	8.90	17.68	15.17	11.60	22.30	19.94	16.20
Double / multi span (m)	18.06	14.92	10.87	22.28	18.92	14.26	28.49	25.24	20.20

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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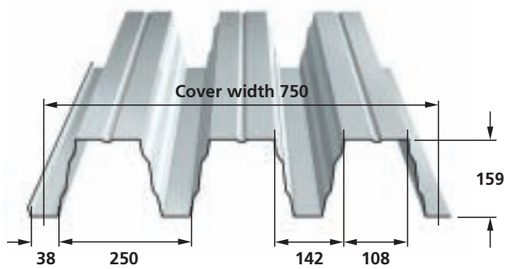
Tegral D159

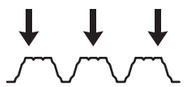
Aluminium 160 N/mm²



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.90	0.90	4.98	10.25	558.40	8.23	558.40	19.20	20.43
1.20	1.20	6.64	13.95	744.10	11.03	744.10	33.28	48.32

Imposed load - deflection limit span / 250



Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span

Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80
Single	0.90	4.61	4.22	3.79	3.01	2.42	1.98	1.63	1.36	-	-	-	-	-	-	-
	1.20	8.01	6.50	5.06	4.01	3.23	2.64	2.18	1.82	1.54	1.30	-	-	-	-	-
Double	0.90	2.79	2.47	2.20	1.97	1.78	1.61	1.47	1.34	1.23	-	-	-	-	-	-
	1.20	4.35	3.83	3.39	3.03	2.72	2.46	2.23	2.04	1.86	1.71	1.58	1.46	1.35	1.26	-
Multi	0.90	3.30	2.92	2.61	2.34	2.12	1.92	1.76	1.61	1.48	1.37	1.27	-	-	-	-
	1.20	5.17	4.55	4.05	3.62	3.26	2.95	2.68	2.45	2.25	2.07	1.91	1.77	1.65	1.53	1.43

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80
Single	0.90	5.89	4.96	4.23	3.65	3.19	2.81	2.49	2.23	-	-	-	-	-	-	-
	1.20	7.84	6.59	5.63	4.86	4.24	3.73	3.31	2.96	2.55	2.19	-	-	-	-	-
Double	0.90	7.28	6.12	5.22	4.51	3.94	3.47	3.08	2.75	2.47	-	-	-	-	-	-
	1.20	9.89	8.32	7.10	6.13	5.35	4.71	4.18	3.73	3.35	3.03	2.76	2.52	2.31	2.12	-
Multi	0.90	9.08	7.64	6.52	5.63	4.91	4.32	3.83	3.42	3.08	2.78	2.53	-	-	-	-
	1.20	12.35	10.39	8.86	7.65	6.67	5.87	5.21	4.65	4.18	3.78	3.43	3.13	2.87	2.64	2.44

Maximum span under Line Load*

Thickness mm	0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	15.59	12.41	8.70	19.85	16.15	11.56
Double / multi span (m)	19.14	15.12	10.52	24.56	19.79	14.03

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

New address from
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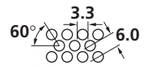
info@patricklynchroofcladding.com
www.patricklynchroofcladding.com

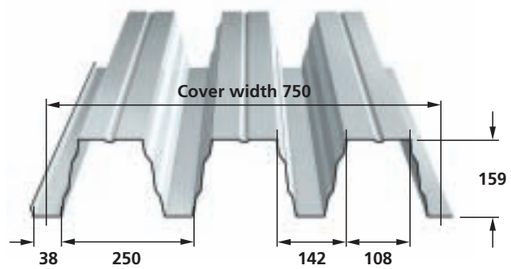
Tegral D159 web perforated

Aluminium 160 N/mm²

Perforating pattern
3.3mm ø holes at 6.0mm triangular centres.
8% of total deck area.



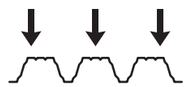
Perforating pattern



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.90	0.90	4.48	8.11	444.30	5.90	444.30	9.60	10.21
1.20	1.20	5.38	11.21	592.00	8.34	592.00	16.64	24.16

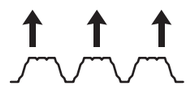
Imposed load - deflection limit span / 250



Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span



Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.880	4.00	4.20	4.40	4.60	4.80
Single	0.90	3.16	2.87	2.62	2.42	2.24	2.09	1.96	1.84	1.73	1.64	1.56	1.34	-	-	-
	1.20	5.49	4.99	4.57	4.21	3.91	3.65	3.41	3.21	2.92	2.46	2.09	1.79	1.55	1.34	-
Double	0.90	2.37	2.10	1.87	1.69	1.53	1.39	1.27	-	-	-	-	-	-	-	-
	1.20	3.91	3.45	3.07	2.76	2.49	2.26	2.06	1.89	1.74	1.61	1.49	1.38	1.29	1.20	-
Multi	0.90	2.76	2.45	2.19	1.98	1.79	1.63	1.50	1.38	1.27	-	-	-	-	-	-
	1.20	4.57	4.04	3.61	3.24	2.93	2.67	2.44	2.24	2.07	1.91	1.77	1.65	1.54	1.44	1.35

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.880	4.00	4.20	4.40	4.60	4.80
Single	0.90	7.90	6.54	5.50	4.69	4.05	3.54	3.11	2.76	2.47	2.22	2.01	1.83	-	-	-
	1.20	11.17	9.24	7.78	6.63	5.73	5.00	4.40	3.90	3.49	3.13	2.83	2.57	2.35	2.16	-
Double	0.90	10.85	8.98	7.55	6.44	5.56	4.85	4.27	-	-	-	-	-	-	-	-
	1.20	15.00	12.40	10.43	8.89	7.68	6.69	5.89	5.22	4.66	4.19	3.79	3.44	3.14	2.88	-
Multi	0.90	13.56	11.21	9.43	8.04	6.94	6.05	5.32	4.72	4.21	-	-	-	-	-	-
	1.20	18.73	15.49	13.02	11.11	9.58	8.35	7.35	6.52	5.82	5.23	4.72	4.29	3.91	3.58	3.30

Maximum span under Line Load*

Thickness mm	0.90			1.20		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	12.81	10.07	6.97	16.67	13.37	9.44
Double / multi span (m)	15.66	12.22	8.41	20.52	16.32	11.43

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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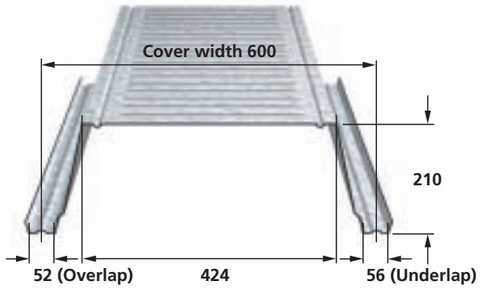
Tegral D210

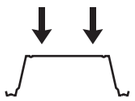
Galvanised Steel 350 N/mm² and white lining enamel coated Galvanised steel.



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
1.25	1.21	16.40	22.50	844.00	27.70	844.00	36.20	39.42

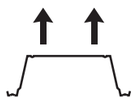
Imposed load - deflection limit span / 250



Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span



Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20
Single	1.25	2.34	2.13	1.94	1.77	1.62	1.49	1.37	1.26	-	-	-	--	-	-	
Double	1.25	2.15	2.05	1.96	1.88	1.80	1.73	1.66	1.59	1.53	1.47	1.42	1.37	1.32	1.28	1.23
Multi	1.25	2.55	2.43	2.33	2.23	2.14	2.05	1.97	1.90	1.82	1.76	1.69	1.63	1.58	1.52	1.47

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20
Single	1.25	3.72	3.38	3.08	2.82	2.58	2.37	2.19	2.02	-	-	-	-	-	-	-
Double	1.25	3.12	2.93	2.75	2.60	2.45	2.31	2.19	2.08	1.97	1.88	1.78	1.70	1.62	1.55	1.48
Multi	1.25	3.90	3.66	3.44	3.24	3.06	2.89	2.74	2.60	2.47	2.34	2.23	2.13	2.03	1.94	1.85

Maximum span under Line Load*

Line load kN/m	1.5	2.0	3.0
Single span (m)	37.50	28.13	18.75
Double / multi span (m)	45.00	33.75	22.50

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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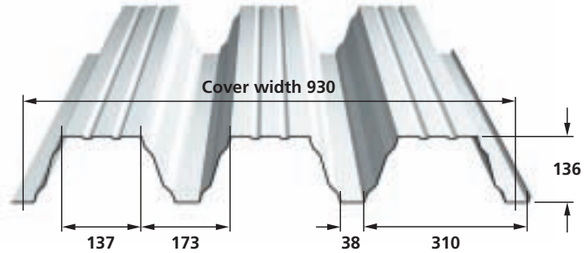
Tegral D135

White lining enamel coated Galvanised Steel 320 N/mm²



Section Properties

Nominal Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 40mm minimum End Support
0.75	9.79	9.71	272	9.39	266	Please refer to Tegral Technical Services for Complete section properties
0.88	11.42	12.22	322	11.88	322	
1.00	12.95	14.53	368	14.27	368	
1.25	16.21	20.01	464	19.52	464	
1.50	19.47	24.14	560	24.77	560	

Load tables as per DIN 18807. Defection limit of span/300. Permissible load q[kN/m²] for span L [m]

Span Condition	Thickness mm	SPAN [L] (metres) 3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00
	0.75	3.41	3.17	2.77	2.28	1.90	1.60	1.36	1.17	1.01	0.88	0.77	0.68	0.60	0.53	0.48	0.43	0.38	0.35	0.31	0.29
	0.88	5.04	4.04	3.28	2.70	2.26	1.90	1.62	1.38	1.20	1.04	0.91	0.80	0.71	0.63	0.56	0.50	0.45	0.41	0.37	0.34
Single	1.00	5.76	4.61	3.75	3.09	2.58	2.17	1.85	1.58	1.37	1.19	1.04	0.92	0.81	0.72	0.64	0.58	0.52	0.47	0.43	0.39
	1.25	7.27	5.82	4.73	3.90	3.25	2.74	2.33	2.00	1.72	1.50	1.31	1.15	1.02	0.91	0.81	0.73	0.65	0.59	0.54	0.49
	1.50	8.77	7.02	5.71	4.70	3.92	3.30	2.81	2.41	2.08	1.81	1.58	1.39	1.23	1.10	0.98	0.88	0.79	0.71	0.65	0.58
	0.75	2.95	2.64	2.38	2.15	1.96	1.79	1.64	1.51	1.39	1.29	1.19	1.11	1.02	0.95	0.88	0.82	0.76	0.71	0.67	0.63
	0.88	3.76	3.37	3.04	2.75	2.50	2.29	2.10	1.93	1.78	1.65	1.53	1.43	1.33	1.24	1.17	1.09	1.03	0.97	0.90	0.81
Double	1.00	4.99	4.45	3.99	3.60	3.26	2.97	2.72	2.49	2.29	2.12	1.96	1.82	1.69	1.58	1.48	1.38	1.25	1.13	1.02	0.93
	1.25	7.24	6.44	5.77	5.20	4.70	4.28	3.90	3.58	3.29	3.03	2.80	2.60	2.42	2.19	1.95	1.75	1.58	1.42	1.29	1.17
	1.50	8.58	7.64	6.85	6.18	5.60	5.09	4.65	4.26	3.92	3.62	3.35	3.11	2.89	2.64	2.36	2.11	1.90	1.72	1.56	1.42
	0.75	3.50	3.14	2.83	2.57	2.34	2.14	1.97	1.82	1.68	1.56	1.45	1.28	1.13	1.01	0.90	0.80	0.72	0.65	0.59	0.54
	0.88	4.45	4.00	3.62	3.28	3.00	2.74	2.52	2.33	2.15	1.96	1.72	1.51	1.34	1.19	1.06	0.95	0.86	0.77	0.70	0.64
Triple	1.00	5.96	5.33	4.79	4.33	3.93	3.59	3.29	2.99	2.58	2.25	1.96	1.73	1.53	1.36	1.21	1.09	0.98	0.89	0.80	0.73
	1.25	8.66	7.73	6.94	6.26	5.68	5.17	4.39	3.77	3.25	2.83	2.48	2.18	1.93	1.71	1.53	1.37	1.24	1.12	1.01	0.92
	1.50	10.25	9.16	8.23	7.44	6.75	6.15	5.30	4.55	3.93	3.42	2.99	2.63	2.33	2.07	1.85	1.66	1.49	1.35	1.22	1.11

Permissible load with a deflection of f≤ L/300

Assumes End Support width ≥40m, Intermediate Support width ≥160mm

Example: Double span support, sheet thickness 0.88 – 6.5m spa
Intermediate support width 180mm, (deflection limit ≤L/300), permissible load = 1.24kN/m2

Information in this datasheet may be changed without notice.

These load span tables have been calculated to DIN 18807, & provide safe working loads (factor 1.65).

Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

Phone: 064 - 6685411
Phone: 087 - 2543499
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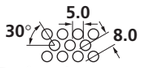
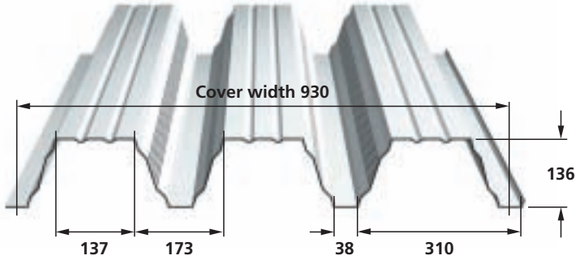
Tegral D135 web perforated

White lining enamel coated
Galvanised steel 320 N/mm²

Perforating pattern
5.0mm ø holes at 8.0mm triangular centres.
Pattern open area 19%



Perforating pattern



Section Properties

Nominal Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 120mm minimum End Support
0.75	7.85	8.13	235	6.45	206	Please refer to Tegral Technical Services for Complete section properties
0.88	9.28	10.37	271	8.81	253	
1.00	10.50	11.88	305	10.71	296	
1.25	13.12	17.40	427	14.67	376	
1.50	15.80	21.00	515	19.07	456	

Load tables as per DIN 18807. Defection limit of span/300. Permissible load q[kN/m²] for span L [m]

Span Condition	Thickness mm	SPAN [L] (metres) 3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00
	0.75	2.50	2.32	2.17	1.97	1.65	1.39	1.18	1.01	0.87	0.76	0.66	0.58	0.52	0.46	0.41	0.37	0.33	0.30	0.27	0.25
	0.88	3.61	3.35	2.76	2.28	1.90	1.60	1.36	1.17	1.01	0.88	0.77	0.67	0.60	0.53	0.47	0.42	0.38	0.35	0.31	0.28
Single	1.00	4.64	3.82	3.11	2.56	2.14	1.80	1.53	1.31	1.13	0.99	0.86	0.76	0.67	0.60	0.53	0.48	0.43	0.39	0.35	0.32
	1.25	6.69	5.35	4.35	3.59	2.99	2.52	2.14	1.84	1.59	1.38	1.21	1.06	0.94	0.84	0.75	0.67	0.60	0.54	0.49	0.45
	1.50	8.07	6.46	5.25	4.33	3.61	3.04	2.58	2.21	1.91	1.66	1.46	1.28	1.13	1.01	0.90	0.81	0.73	0.66	0.59	0.54
	0.75	2.50	2.32	2.17	2.03	1.91	1.79	1.65	1.52	1.41	1.31	1.22	1.13	1.05	0.97	0.90	0.84	0.78	0.72	0.65	0.59
	0.88	3.61	3.35	3.13	2.93	2.76	2.54	2.34	2.16	2.00	1.86	1.73	1.60	1.44	1.28	1.14	1.02	0.92	0.83	0.75	0.69
Double	1.00	4.64	4.31	4.02	3.69	3.36	3.08	2.83	2.61	2.41	2.24	2.08	1.83	1.62	1.44	1.28	1.15	1.04	0.94	0.85	0.77
	1.25	7.06	6.33	5.71	5.18	4.72	4.31	3.96	3.65	3.37	3.12	2.90	2.56	2.26	2.01	1.80	1.61	1.45	1.31	1.19	1.08
	1.50	8.71	7.81	7.04	6.37	5.80	5.30	4.86	4.47	4.13	3.82	3.51	3.09	2.73	2.43	2.17	1.94	1.75	1.58	1.43	1.30
	0.75	2.63	2.37	2.17	2.03	1.91	1.80	1.71	1.62	1.55	1.43	1.25	1.10	0.98	0.87	0.78	0.70	0.63	0.57	0.51	0.47
	0.88	3.72	3.35	3.13	2.93	2.76	2.61	2.47	2.20	1.90	1.65	1.45	1.27	1.13	1.00	0.89	0.80	0.72	0.65	0.59	0.54
Triple	1.00	4.64	4.31	4.02	3.77	3.55	3.35	2.89	2.48	2.14	1.86	1.63	1.43	1.27	1.13	1.01	0.90	0.81	0.73	0.67	0.60
	1.25	7.40	6.87	6.41	6.01	5.50	4.76	4.04	3.47	3.00	2.60	2.28	2.01	1.78	1.58	1.41	1.26	1.14	1.03	0.93	0.85
	1.50	8.92	8.29	7.73	7.25	6.54	5.74	4.88	4.18	3.61	3.14	2.75	2.42	2.14	1.90	1.70	1.52	1.37	1.24	1.12	1.02

Permissible load with a deflection of f≤ L/300

Assumes End Support width ≥120m, Intermediate Support width ≥160mm

Example: Double span support, sheet thickness 0.88 – 6.5m spa
Intermediate support width 180mm, (deflection limit ≤L/300), permissible load = 1.24kN/m2

Information in this datasheet may be changed without notice.

These load span tables have been calculated to DIN 18807, & provide safe working loads (factor 1.65).

Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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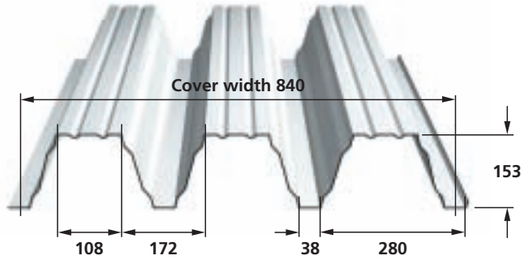
Tegral D150

White lining enamel coated
Galvanised steel 320 N/mm²



Section Properties

Nominal Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 90mm minimum End Support
0.75	10.80	13.14	375	14.63	373	*Please refer to Tegral Technical Services for Complete section properties*
0.88	12.64	16.32	451	17.00	451	
1.00	14.37	19.25	516	19.18	516	
1.25	18.14	29.89	650	31.57	650	
1.50	21.51	36.07	785	38.09	785	

Load tables as per DIN 18807. Defection limit of span/300. Permissible load q[kN/m²] for span L [m]

Span Condition	Thickness mm	SPAN [L] (metres) 3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	0.75	4.25	3.82	3.15	2.63	2.21	1.88	1.61	1.39	1.21	1.06	0.93	0.83	0.73	0.66	0.59	0.53	0.48	0.43	0.39	0.36
	0.88	4.71	4.40	3.79	3.16	2.66	2.26	1.94	1.68	1.46	1.28	1.12	0.99	0.88	0.79	0.71	0.64	0.57	0.52	0.47	0.43
Single	1.00	5.14	4.80	4.33	3.61	3.04	2.59	2.22	1.92	1.67	1.46	1.28	1.14	1.01	0.90	0.81	0.73	0.66	0.60	0.54	0.49
	1.25	8.15	6.63	5.46	4.55	3.83	3.26	2.80	2.41	2.10	1.84	1.62	1.43	1.27	1.14	1.02	0.92	0.83	0.75	0.68	0.62
	1.50	9.84	8.00	6.59	5.50	4.63	3.94	3.38	2.92	2.54	2.22	1.95	1.73	1.54	1.37	1.23	1.11	1.00	0.91	0.82	0.75
	0.75	3.73	3.39	3.10	2.85	2.62	2.42	2.25	2.09	1.91	1.74	1.60	1.48	1.36	1.27	1.18	1.10	1.02	0.96	0.90	0.85
	0.88	4.71	4.40	4.12	3.88	3.59	3.31	2.99	2.72	2.47	2.26	2.08	1.92	1.77	1.64	1.53	1.42	1.33	1.25	1.14	1.04
Double	1.00	5.14	4.80	4.50	4.23	4.00	3.79	3.60	3.28	2.98	2.73	2.51	2.31	2.14	1.98	1.84	1.72	1.58	1.44	1.31	1.19
	1.25	9.89	8.61	7.57	6.71	5.98	5.37	4.84	4.39	4.05	3.76	3.49	3.26	3.04	2.74	2.45	2.21	2.00	1.81	1.64	1.50
	1.50	12.34	10.75	9.45	8.37	7.47	6.70	6.05	5.49	5.00	4.57	4.22	3.93	3.67	3.31	2.96	2.67	2.41	2.18	1.99	1.81
	0.75	4.25	3.97	3.60	3.19	2.85	2.56	2.31	2.09	1.91	1.74	1.60	1.48	1.39	1.24	1.11	1.00	0.90	0.82	0.74	0.68
	0.88	4.71	4.40	4.12	3.88	3.67	3.32	2.99	2.72	2.47	2.27	2.12	1.88	1.67	1.49	1.33	1.20	1.09	0.98	0.89	0.82
Triple	1.00	5.90	5.35	4.87	4.46	4.09	3.79	3.60	3.28	3.01	2.75	2.42	2.15	1.91	1.70	1.53	1.37	1.24	1.13	1.02	0.93
	1.25	9.93	8.96	8.13	7.41	6.77	6.16	5.28	4.56	3.97	3.47	3.05	2.70	2.40	2.15	1.92	1.73	1.56	1.42	1.29	1.17
	1.50	12.34	10.82	9.81	8.94	8.17	7.43	6.37	5.51	4.79	4.19	3.69	3.26	2.90	2.59	2.32	2.09	1.89	1.71	1.56	1.42

Permissible load with a deflection of f≤ L/300

Assumes End Support width ≥90m, Intermediate Support width ≥160mm

Example: Double span support, sheet thickness 0.88 – 6.5m spa
Intermediate support width 180mm, (deflection limit ≤L/300), permissible load = 1.24kN/m2

Information in this datasheet may be changed without notice.

These load span tables have been calculated to DIN 18807, & provide safe working loads (factor 1.65).

Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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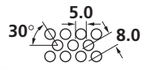
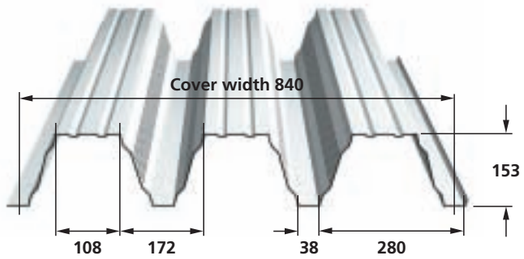
Tegral D150 web perforated

White lining enamel coated
Galvanised steel 320 N/mm²

Perforating pattern
5.0mm ø holes at 8.0mm triangular centres.
Pattern open area 19.28%



Perforating pattern



Section Properties

Nominal Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 90mm minimum End Support
0.75	*8.56*	*12.15*	*293*	*12.11*	*288*	*Please refer to Tegral Technical Services for Complete section properties*
0.88	*9.99*	*15.49*	*352*	*15.79*	*349*	
1.00	*11.31*	*18.57*	*411*	*19.18*	*409*	
1.25	*14.17*	*26.63*	*543*	*31.57*	*522*	
1.50	*19.06*	*32.13*	*655*	*38.09*	*635*	

Load tables as per DIN 18807. Defection limit of span/300. Permissible load q[kN/m²] for span L [m]

Span Condition	Thickness mm	SPAN [L] (metres) 3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	0.75	2.27	2.12	1.98	1.87	1.73	1.47	1.26	1.09	0.95	0.83	0.73	0.65	0.57	0.51	0.46	0.41	0.37	0.34	0.31	0.28
	0.88	3.13	2.93	2.74	2.47	2.08	1.77	1.51	1.31	1.14	1.00	0.88	0.78	0.69	0.62	0.55	0.50	0.45	0.41	0.37	0.34
Single	*1.00*	3.93	3.67	3.44	2.88	2.42	2.06	1.77	1.53	1.33	1.16	1.02	0.91	0.80	0.72	0.64	0.58	0.52	0.47	0.43	0.39
	1.25	6.81	5.54	4.56	3.80	3.20	2.72	2.34	2.02	1.75	1.54	1.35	1.20	1.06	0.95	0.85	0.77	0.69	0.63	0.57	0.52
	1.50	8.21	6.68	5.50	4.59	3.86	3.29	2.82	2.43	2.12	1.85	1.63	1.44	1.28	1.14	1.03	0.92	0.83	0.76	0.69	0.63
	0.75	2.27	2.12	1.98	1.87	1.76	1.67	1.59	1.45	1.32	1.21	1.11	1.02	0.94	0.88	0.81	0.76	0.71	0.66	0.62	0.59
	0.88	3.13	2.93	2.74	2.58	2.44	2.31	2.11	1.91	1.74	1.60	1.47	1.35	1.25	1.16	1.08	1.01	0.94	0.88	0.83	0.78
Double	*1.00*	3.93	3.67	3.44	3.24	3.06	2.89	2.61	2.37	2.16	1.98	1.81	1.67	1.55	1.43	1.36	1.29	1.22	1.14	1.04	0.95
	1.25	6.89	6.43	6.03	5.68	5.36	5.08	4.76	4.44	4.15	3.70	3.26	2.88	2.56	2.29	2.05	1.85	1.67	1.51	1.37	1.25
	1.50	8.32	7.76	7.28	6.85	6.47	6.13	5.75	5.36	5.01	4.46	3.93	3.47	3.09	2.76	2.47	2.23	2.01	1.82	1.66	1.51
	0.75	2.37	2.18	2.01	1.87	1.76	1.67	1.59	1.45	1.33	1.25	1.18	1.12	1.06	0.97	0.87	0.78	0.70	0.64	0.58	0.53
	0.88	3.29	3.02	2.78	2.58	2.44	2.31	2.11	1.94	1.83	1.72	1.62	1.46	1.30	1.16	1.04	0.94	0.85	0.77	0.70	0.64
Triple	*1.00*	4.13	3.78	3.48	3.24	3.06	2.89	2.61	2.43	2.28	2.14	1.93	1.71	1.52	1.36	1.22	1.09	0.99	0.90	0.81	0.74
	1.25	6.98	6.43	6.03	5.68	5.36	5.08	4.41	3.81	3.31	2.90	2.55	2.26	2.01	1.79	1.61	1.45	1.31	1.18	1.08	0.98
	1.50	8.42	7.76	7.28	6.85	6.47	6.13	5.32	4.59	4.00	3.50	3.08	2.72	2.42	2.16	1.94	1.74	1.58	1.43	1.30	1.18

Permissible load with a deflection of f≤ L/300

Assumes End Support width ≥90m, Intermediate Support width ≥160mm

Example: Double span support, sheet thickness 0.88 – 6.5m spa
Intermediate support width 180mm, (deflection limit ≤L/300), permissible load = 1.24kN/m2

Information in this datasheet may be changed without notice.

These load span tables have been calculated to DIN 18807, & provide safe working loads (factor 1.65).

Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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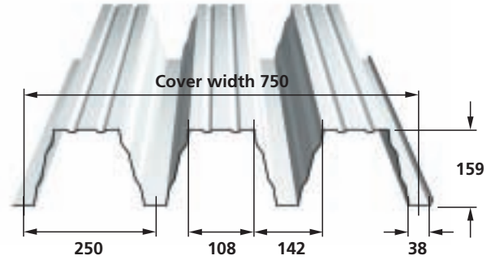
Tegral D165

White lining enamel coated
Galvanised steel 320 N/mm²



Section Properties

Nominal Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 90mm minimum End Support
0.75	*12.03*	*6.20*	*455*	*13.95*	*450*	*Please refer to Tegral Technical Services for Complete section properties*
0.88	*14.17*	*14.29*	*548*	*19.55*	*543*	
1.00	*16.41*	*21.76*	*627*	*24.11*	*627*	
1.25	*20.08*	*29.40*	*790*	*36.55*	*790*	
1.50	*24.16*	*35.47*	*953*	*44.10*	*953*	

Load tables as per DIN 18807. Defection limit of span/300. Permissible load q[kN/m²] for span L [m]

Span Condition	Thickness mm	SPAN [L] (metres) 4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	8.75	9.00
	0.75	3.19	2.68	2.28	1.96	1.69	1.47	1.29	1.13	1.00	0.89	0.80	0.71	0.64	0.58	0.53	0.48	0.44	0.40	0.37	0.34
	0.88	3.84	3.23	2.75	2.36	2.04	1.77	1.55	1.36	1.21	1.07	0.96	0.86	0.77	0.70	0.63	0.58	0.52	0.48	0.44	0.40
Single	*1.00*	4.39	3.70	3.15	2.70	2.33	2.03	1.77	1.56	1.38	1.23	1.10	0.98	0.88	0.80	0.72	0.66	0.60	0.55	0.50	0.46
	1.25	5.53	4.66	3.96	3.40	2.94	2.55	2.23	1.97	1.74	1.55	1.38	1.24	1.11	1.01	0.91	0.83	0.76	0.69	0.63	0.58
	1.50	6.67	5.62	4.78	4.10	3.54	3.08	2.69	2.37	2.10	1.87	1.67	1.49	1.34	1.21	1.10	1.00	0.91	0.83	0.76	0.70
	0.75	3.26	3.01	2.79	2.60	2.42	2.20	2.01	1.85	1.70	1.58	1.46	1.36	1.27	1.21	1.16	1.10	1.04	0.96	0.88	0.81
	0.88	4.40	4.05	3.74	3.47	3.17	2.89	2.64	2.43	2.24	2.07	1.92	1.78	1.66	1.55	1.46	1.39	1.26	1.16	1.06	0.97
Double	*1.00*	5.41	4.97	4.58	4.22	3.82	3.48	3.19	2.93	2.70	2.49	2.31	2.15	2.01	1.87	1.74	1.59	1.45	1.32	1.21	1.11
	1.25	7.83	6.98	6.27	5.66	5.13	4.68	4.28	3.93	3.62	3.38	3.17	2.97	2.68	2.43	2.20	2.00	1.82	1.67	1.53	1.40
	1.50	9.78	8.72	7.83	7.07	6.41	5.84	5.34	4.91	4.52	4.18	3.88	3.60	3.24	2.93	2.65	2.41	2.20	2.01	1.84	1.69
	0.75	3.59	3.29	2.95	2.66	2.42	2.20	2.01	1.85	1.71	1.61	1.49	1.35	1.21	1.09	0.99	0.90	0.82	0.75	0.69	0.63
	0.88	4.84	4.31	3.87	3.49	3.17	2.89	2.64	2.43	2.27	2.03	1.81	1.62	1.46	1.32	1.19	1.09	0.99	0.91	0.83	0.76
Triple	*1.00*	5.84	5.21	4.67	4.22	3.82	3.48	3.19	2.94	2.61	2.32	2.07	1.86	1.67	1.51	1.37	1.24	1.13	1.04	0.95	0.87
	1.25	8.06	7.39	6.80	6.27	5.54	4.82	4.22	3.71	3.28	2.92	2.61	2.34	2.10	1.90	1 .72	1.57	1.43	1.31	1.20	1.10
	1.50	9.78	8.92	8.20	7.57	6.68	5.81	5.09	4.48	3.96	3.52	3.15	2.82	2.54	2.29	2.08	1.89	1.72	1.58	1.44	1.33

Permissible load with a deflection of f≤ L/300

Assumes End Support width ≥90m, Intermediate Support width ≥160mm

Example: Double span support, sheet thickness 0.88 – 6.5m spa
Intermediate support width 180mm, (deflection limit ≤L/300), permissible load = 1.24kN/m2

Information in this datasheet may be changed without notice.

These load span tables have been calculated to DIN 18807, & provide safe working loads (factor 1.65).

Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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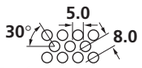
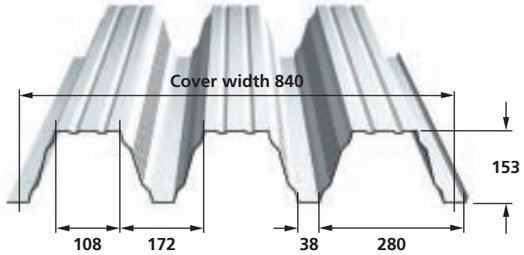
Tegral D165 web perforated

White lining enamel coated
Galvanised steel 320 N/mm²

Perforating pattern
5.0mm ø holes at 8.0mm
triangular centres.
Pattern open area 21.60%



Perforating pattern



Section Properties

Nominal Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 90mm minimum End Support
0.75	9.28	7.37	406	13.76	345	*Please refer to Tegral Technical Services for Complete section properties*
0.88	10.81	10.51	461	19.03	420	
1.00	12.33	13.40	511	23.89	496	
1.25	15.39	24.25	663	35.40	633	
1.50	18.45	29.26	800	42.71	770	

Load tables as per DIN 18807. Defection limit of span/300. Permissible load q[kN/m²] for span L [m]

Span Condition	Thickness mm	SPAN [L] (metres) 4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	8.75	9.00
	0.75	2.04	1.93	1.83	1.74	1.51	1.31	1.15	1.01	0.89	0.79	0.71	0.64	0.57	0.52	0.47	0.43	0.39	0.36	0.33	0.30
	0.88	2.92	2.72	2.31	1.98	1.71	1.49	1.30	1.15	1.02	0.90	0.81	0.72	0.65	0.59	0.53	0.48	0.44	0.40	0.37	0.34
Single	1.00	3.58	3.01	2.56	2.20	1.90	1.65	1.45	1.27	.13	1.00	0.89	0.80	0.72	0.65	0.59	0.54	0.49	0.45	0.41	0.38
	1.25	4.64	3.91	3.33	2.85	2.46	2.14	1.87	1.65	1.46	1.30	1.16	1.04	0.94	0.84	0.77	0.70	0.63	0.58	0.53	0.49
	1.50	5.60	4.72	4.01	3.44	2.97	2.59	2.26	1.99	1.76	1.57	1.40	1.25	1.13	1.02	0.92	0.84	0.77	0.70	0.64	0.59
	0.75	2.04	1.93	1.83	1.74	1.66	1.58	1.51	1.42	1.33	1.25	1.18	1.11	1.03	0.97	0.91	0.85	0.80	0.75	0.71	0.67
	0.88	2.92	2.76	2.57	2.39	2.22	2.07	1.94	1.82	1.71	1.61	1.52	1.43	1.35	1.28	1.20	1.13	1.06	0.97	0.89	0.82
Double	1.00	3.73	3.47	3.21	2.98	2.77	2.58	2.41	2.26	2.12	1.99	1.87	1.77	1.67	1.57	1.42	1.29	1.18	1.08	0.99	0.91
	1.25	5.32	4.83	4.41	4.04	3.71	3.42	3.16	2.93	2.72	2.54	2.37	2.22	2.08	1.95	1.83	1.68	1.53	1.40	1.28	1.18
	1.50	6.42	5.83	5.32	4.87	4.48	4.13	3.81	3.54	3.29	3.06	2.86	2.68	2.51	2.36	2.21	2.02	1.85	1.69	1.55	1.42
	0.75	2.11	1.96	1.83	1.74	1.66	1.58	1.51	1.45	1.39	1.34	1.29	1.20	1.08	0.98	0.89	0.80	0.73	0.67	0.62	0.57
	0.88	2.92	2.76	2.62	2.48	2.37	2.26	2.16	2.07	1.92	1.70	1.52	1.36	1.23	1.11	1.01	0.91	0.83	0.76	0.70	0.64
Triple	1.00	3.73	3.53	3.34	3.17	3.02	2.88	2.73	2.40	2.12	1.89	1.69	1.51	1.36	1.23	1.11	1.01	0.92	0.84	0.77	0.71
	1.25	6.43	5.86	5.35	4.91	4.52	4.04	3.54	3.12	2.76	2.45	2.19	1.96	1.77	1.60	1.45	1.31	1.20	1.10	1.00	0.92
	1.50	7.76	7.07	6.46	5.92	5.45	4.88	4.27	3.76	3.33	2.96	2.64	2.37	2.13	1.92	1.74	1.59	1.45	1.32	1.21	1.11

Permissible load with a deflection of f≤ L/300

Assumes End Support width ≥90m, Intermediate Support width ≥160mm

Example: Double span support, sheet thickness 0.88 – 6.5m spa
Intermediate support width 180mm, (deflection limit ≤L/300), permissible load = 1.24kN/m2

Information in this datasheet may be changed without notice.

These load span tables have been calculated to DIN 18807, & provide safe working loads (factor 1.65).

Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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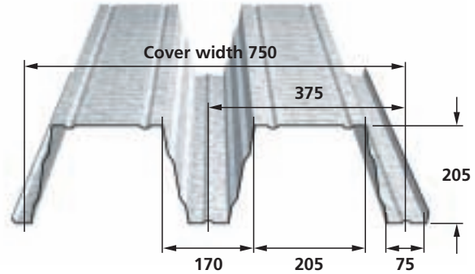
Tegral D200

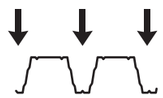
Galvanised Steel 320 N/mm²
and white lining enamel
coated Galvanised steel.



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.75	0.71	11.77	16.07	690.03	14.43	768.23	18.51	15.74
0.88	0.84	13.81	21.69	826.48	19.62	911.94	26.19	26.06
1.25	1.21	19.63	35.78	1227.20	32.46	1313.60	53.89	77.74

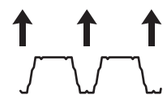
Imposed load - deflection limit span / 250



Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span



Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	0.75	2.47	2.35	2.24	2.15	2.06	1.87	1.66	1.48	1.32	-	-	-	-	-	-
Single	0.88	3.49	3.33	3.17	2.89	2.53	2.24	1.99	1.77	1.58	1.42	1.28	-	-	-	-
	1.25	6.57	5.66	4.91	4.29	3.76	3.32	2.95	2.63	2.35	2.11	1.91	1.73	1.57	1.43	1.30
	0.75	1.47	1.39	1.31	1.24	-	-	-	-	-	-	-	-	-	-	-
Double	0.88	2.09	1.96	1.83	1.72	1.62	1.52	1.44	1.36	1.29	1.22	-	-	-	-	-
	1.25	3.93	3.66	3.41	3.20	3.00	2.82	2.66	2.51	2.37	2.25	2.13	2.03	1.93	1.84	1.75
	0.75	1.71	1.61	1.52	1.44	1.37	1.30	1.23	-	-	-	-	-	-	-	-
Multi	0.88	2.47	2.31	2.16	2.03	1.91	1.81	1.71	1.62	1.53	1.46	1.39	1.32	1.26	1.20	-
	1.25	4.65	4.34	4.06	3.80	3.57	3.36	3.17	3.00	2.84	2.69	2.55	2.43	2.31	2.20	2.10

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	0.75	3.08	2.79	2.54	2.33	2.14	1.97	1.82	1.69	1.57	-	-	-	-	-	-
Single	0.88	4.19	3.80	3.46	3.16	2.91	2.68	2.48	2.30	2.14	1.99	1.86	-	-	-	-
	1.25	6.92	6.28	5.72	5.24	4.81	4.43	4.10	3.80	3.53	3.29	3.08	2.88	2.69	2.46	2.25
	0.75	3.43	3.11	2.83	2.59		-	-	-	-	-	-	-	-	-	-
Double	0.88	4.63	4.20	3.82	3.50	3.21	2.96	2.74	2.54	2.36	2.20	-	-	-	-	-
	1.25	7.63	6.92	6.31	5.77	5.30	4.89	4.52	4.19	3.89	3.63	3.39	3.18	2.98	2.80	2.64
	0.75	4.29	3.89	3.54	3.24	2.98	2.74	2.54	-	-	-	-	-	-	-	-
Multi	0.88	5.78	5.25	4.78	4.37	4.02	3.70	3.42	3.17	2.95	2.75	2.57	2.41	2.26	2.12	-
	1.25	9.54	8.65	7.89	7.21	6.63	6.11	5.65	5.24	4.87	4.54	4.24	3.97	3.73	3.50	3.30

Maximum span under Line Load*

Thickness mm	0.75			0.88			1.25		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	26.78	20.09	13.39	36.15	27.11	18.08	59.63	44.73	29.82
Double / multi span (m)	32.14	24.11	16.07	43.38	32.54	21.69	71.56	53.67	35.78

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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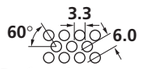
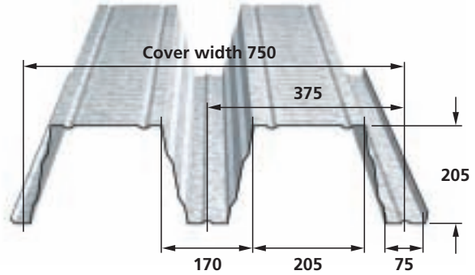
Tegral D200 web perforated

Galvanised Steel 350 N/mm²

Perforating pattern
3.3mm ø holes at 6.0mm triangular centres.
8% of total deck area.



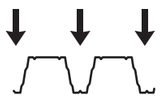
Perforating pattern



Ultimate Section Properties

Nominal Thickness mm	Design Thickness mm	Weight kg/m²	Broad Flange in Compression: Moment Capacity kNm/m	Broad Flange in Compression: Moment of Inertia cm⁴/m	Narrow Flange in Compression: Moment Capacity kNm/m	Narrow Flange in Compression: Moment of Inertia cm⁴/m	Bearing 50mm minimum: Web Crushing kNm/m	Bearing 50mm minimum: Shear Capacity kNm/m
0.75	0.71	11.80	13.66	587.00	12.26	652.80	9.26	7.87
0.88	0.84	13.80	18.44	703.00	16.68	775.50	13.10	13.03
1.25	1.21	19.60	30.41	1043.00	27.59	1116.05	26.94	38.87

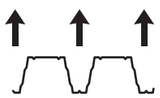
Imposed load - deflection limit span / 250



Broad flange in compression, single span

Wind suction load - deflection limit span / 150

Narrow flange in compression, single span



Safe Imposed (positive) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
Single	0.75	1.30	1.23	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.88	1.84	1.75	1.66	1.59	1.52	1.46	1.40	1.34	1.29	1.25	1.20	-	-	-	-
	1.25	3.78	3.59	3.42	3.27	3.12	2.99	2.82	2.51	2.23	2.00	1.80	1.62	1.47	1.33	1.21
Double	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.88	1.34	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	1.25	2.58	2.41	2.26	2.12	2.00	1.89	1.78	1.69	1.60	1.52	1.45	1.38	1.32	1.26	1.21
Multi	0.75	-	-	-	-		-	-	-	-	-	-	-	-	-	-
	0.88	1.56	1.46	1.37	1.30	1.22	-	-	-	-	-	-	-	-	-	-
	1.25	3.02	2.83	2.65	2.49	2.35	2.22	2.10	1.99	1.89	1.80	1.71	1.63	1.56	1.49	1.43

Safe Wind Suction (negative) Loads (kN/m²)

Span Condition	Thickness mm	SPAN(metres) 4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
Single	0.75	2.90	2.62	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.88	3.94	3.56	3.23	2.94	2.69	2.47	2.28	2.11	1.95	1.82	1.69	-	-	-	-
	1.25	6.52	5.89	5.34	4.86	4.45	4.09	3.77	3.48	3.23	3.00	2.80	2.62	2.45	2.29	2.09
Double	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.88	4.36	3.93	-	-	-	-	-	-	-	-	-	-	-	-	-
	1.25	7.19	6.49	5.88	5.36	4.91	4.51	4.15	3.84	3.56	3.31	3.09	2.88	2.70	2.53	2.38
Multi	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.88	5.45	4.92	4.46	4.06	3.72	-	-	-	-	-	-	-	-	-	-
	1.25	8.99	8.11	7.36	6.70	6.13	5.63	5.19	4.80	4.45	4.14	3.86	3.60	3.38	3.17	2.98

Maximum span under Line Load*

Thickness mm	0.75			0.88			1.25		
Line load kN/m	1.5	2.0	3.0	1.5	2.0	3.0	1.5	2.0	3.0
Single span (m)	22.77	17.08	11.38	30.73	23.05	15.37	50.68	38.01	25.34
Double / multi span (m)	27.32	20.49	13.66	36.88	27.66	18.44	60.82	45.62	30.41

These load span tables have been calculated to BS 5950 Part 6, & provide safe working loads (factor 1.5).

Information in this datasheet may be changed without notice.

*Line loads are defined in BS 5950 Part 6 Section 2.2. Roofing loads should be calculated in accordance with BS 6399 : Part 3 (Part 2 for wind loading) Tegral recommend using a line load of 2kN/m and a minimum imposed UDL of 1.5kN/m². Snow and wind loading may be more severe than this.

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Fixing Instructions

Deck Installation Details

The lightweight metal profiles used in decking systems primarily comprise an economic structural support to insulation and water proofing systems. The choice of metal thickness, profile and finish is dependent upon the span, type of insulation and weatherproofing, the imposed loads and any aesthetic or internal consideration which the metal sheet, acting as a soffit, is required to fulfil.

Profile metal deck sheets of a thickness adequate for structural purpose may, through foot and other traffic during erection, be subject to some localised deformation and denting. If the profiled metal decking sheet is to serve as an exposed soffit where, for aesthetic reasons, localised traffic marking and denting is not acceptable, then consideration should be given to using metal which is thicker than that required for purely structural reasons.

Fixing

Fasteners

Deck Profiles	Main Fixing at Ridge and Eaves	Main Fixing (Intermediate)	Side Lap Fixing
D19, D32, D35	Every pitch	Every other pitch	not essential
D46, D60, D100, D135 D153, D159, D200	Every pitch	Every pitch	450mm centres
D210	Every pitch	Every pitch	350mm centres

Every other pitch is based on always starting with a fixing in the first pitch of every sheet.
D210 requires alignment clips to prevent profile spread.

Fastener Recommendations

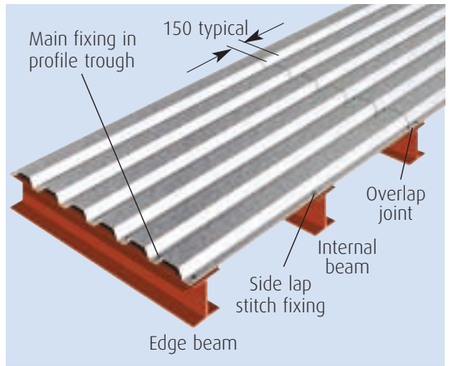
Fastener Frequency: The above table indicates satisfactory fixing arrangements for Tegral roof deck profiles. However there may be a requirement for more fixing than indicated in the table above if the fastener limits are exceeded, or design conditions dictate. This occurs when either the pull out or pull over value of the fastener in question is less than the actual load acting on the fixing, multiplied by the factor of safety (usually 2).

Load span sheets used in high wind load area are especially subject to fastener limitations and the fastener should always be checked.

Reputable fastener suppliers such as SFS Intec and EJOT can advise and supply pull out and over figures.

EJOT: 0044 113 247 0880.
SFS Intec: 0044 113 208 5500.

Typical Fixing Layout



The fastener type depends on the material to which the fastener is being attached:

Steel members - Two types of fasteners are commonly used; low velocity powder-activated (shot-fired) pins and self-tapping screws. The former are normally the fastest and most economic way of fixing. A minimum edge distance of 20mm is recommended for all types of fixing onto a steel member.

Concrete and Masonry - Drilled-and-plugged screw fixings and powder-activated pins are used for fixing to concrete and masonry supports. Powder-activated fasteners should be at least 80mm from the edge of the support to avoid splitting, and drilled-and-plugged fixings should be at least 50mm from the edge. If significant uplift forces are foreseen, a metal insert may be cast into the support.

Wood - For timber supports, self-tapping screws are most suitable.

Side Laps - Side laps stitch fasteners are normally self-tapping screws or bulb type rivets.

It is important that powder-activated pin fixings are used in accordance with the manufacturer's guidance and by appropriately qualified operatives.

For further information contact:
Hilti: 0044 161 8861000
Spit: 0044 141 7642700.

Phone: 064 - 6685411
Phone: 087 - 2543499
Phone: 021 - 4551000
Fax: 064 - 6685596

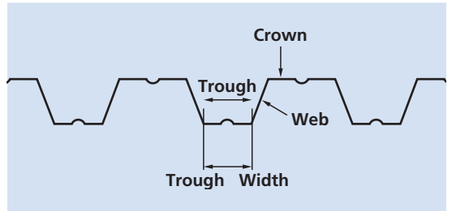
Fixing Instructions

Openings in Roof Decks

Rules for opening

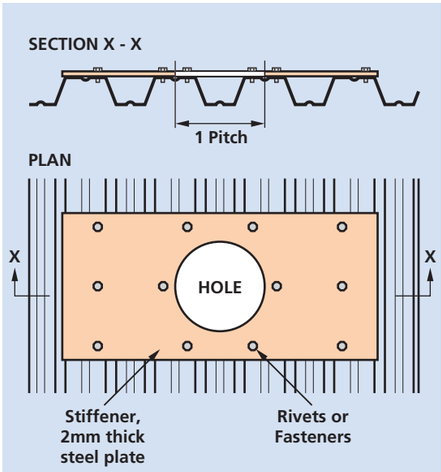
Openings may be made in deck troughs without stiffeners, provided webs are not infringed. Un-stiffened openings in crowns are not permissible.

Trough widths are as follows:
D32 = 27mm, D35 = 35mm, D46 = 67mm, D60 = 64mm, D100 = 63mm, D135 = 38mm, D150 = 38mm, D159 = 38mm, D165 = 38mm, D200 = 75mm, and D210 = 56mm.

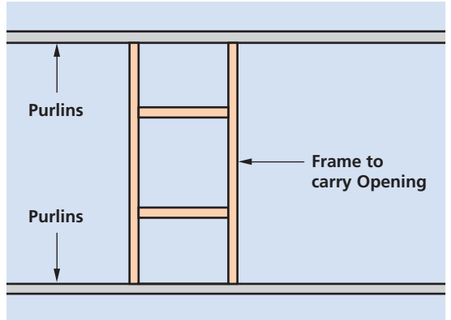


Openings may be made up to the size of one deck pitch by providing stiffening elements on each side of the opening, to carry load to adjacent ribs. Un-stiffened openings in crowns are not permissible.

Pitches are as follows:
D32 = 160mm, D35 = 150mm, D46 = 225mm, D60 = 200mm, D100 = 233.3mm, D135 = 310mm, D150 = 280mm, D159 = 250mm, D165 = 250mm, D200 = 375mm, and D210 = 600mm.



Openings of a size greater than one pitch require full structural support.



All openings, stiffened or unstiffened to be spaced at 1.5 metres minimum.

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Specifications

Design Specifications

Roof deck design calculations to BS 5950 Part 6 or DIN 18807.

The load span tables are based on a total "Dead & Super" imposed load of 1.50kN/m^2, a line load of 2kN/m^2 and a deflection limit of L/250 or L/300. Where actual design loads exceed these, the spans must be reduced. Subject to satisfactory fixings, the deck will resit wind uplift to at least to at least the value of 1.50kN/m^2.

Material Specification

Steel

Hot Dipped Zinc Coated Steel to BS EN 10147 Fe F 280g Z275.

Aluminium

Aluminium alloy strip to BS EN 458-2.

Lining Enamel

Hot Dipped Zinc Coated Steel to BS EN 10147 Fe F 280g Z275.

HPS200 Colorcoat®

Hot Dipped Zinc Coated Steel to BS EN 10214: 1995 S220GD ZA.

Fire Performance

All non-perforated roof deck sheets provide a fire rating of class 1 to BS 476 Part 7 and class 0 in accordance with current Building Regulations.

Organic coated steel decking sheets conform to the following classifications as laid down in BS 476 - Fire Test on Building Materials

Part 3: External Fire Exposure test - Designation AA i.e. The highest grade obtainable.

Part 5: Ignitablility Test - Designation (P) : Not easily ignitable".

Part 6: Fire Propogation Test - Satisfactory performance index:
(1) not exceeding 12, sub index.
(2) not exceeding 6.

Part 7: Surface Spread of Flame Test: Class 1. The combination of these test results gives the material a class "0" fire rating i.e. the highest class.

Curved Applications

The use of curved roofs is facilitated by the use of structural decks aligned along the axis of the curve, with the flexibility of the profile exploited with this technique. Self-curving of the deck profile is possible subject to minimum radii restructions. In addition, Tegral can offer "crimp" curved D32, D35 and D46 (min. 400mm radius). Please consult Tegral Technical Services for further information.

Acoustic Absorption

Perforated decking is available with perforated patterns in the web, allowing insulation material to provide acoustic control of interior reflected sound. Please consult Tegral Technical Services for further information.

Condensation Control

To ensure that moisture vapour arising from the drying out of a building or industrial process in normal to medium humidity buildings (RH50%) does not cause condensation within the roof assembly when it comes into contact with a colder surface, the passage of vapour must be limited.

To achieve this Tegral Metal Forming recommend the following methods:

1). Membrane vapour control layer: A minimum 1000g polythene sheet should be installed with 150mm laps and side laps sealed with a suitable sealant.

2). Decking as vapour control layer: By taping and sealing all side and end laps of the decking in accordance with sealant manufacturer recommendations, and using profiled filler piece to close the profile at the ridge and eaves, an effective vapour control layer can be achieved.

All fixings should be sealed with neoprene washers. For buildings where humidities higher than RH70% are normal, (i.e. swimming pools), the control of water vapour must be carefully considered with a combination of control layers and air handling equipment.

The surface finish of the deck material and the use of stainless steel fasteners are equally important.

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Fax: 064 - 6685596

Specifications

Health & Safety

Health & Safety reference data sheets for the material used in the manufacturer of Tegral structural roof decking are available on request.

Galvanised Steel
Refer to product Health & Safety data sheet no: 18.

Colorcoat® HPS200 Steel
Refer to product Health & Safety data sheet no: 29.

Colorcoat® Polyester Steel
Refer to product Health & Safety data sheet no: 30.

Aluminium
Refer to product Health & Safety data sheet.

Model Specification

Below is a typical model specification for the construction of a Tegral roof deck system.

Type(s) of Decking
Manufacturer:
Tegral Metal Forming Ltd., Athy, Country Kildare.
Tel: 05986 31619. Fax: 05986 40751.
e-mail: metaltech@tegral.com.

Profile reference:
D19, D32, D35, D46, D60, D100, D159, D210, D135, D150, D165, D200.
If perforated indicate perforation percentage.

Material:
Corus Galvatite:
Hot dip zinc coated steel to BS EN 10147:1992 Fe F 280g Z275 or Aluminium to BS EN 458-2.

Nominal thickness/gauge:
0.7mm, 0.75mm, 0.88mm, 0.9mm, 1.0mm, 1.2mm, 1.25mm, 1.5mm.

Soffit finish:
Galvanised, Enamel Finish, Colorcoat® HPS200 Steel or Aluminium.

End laps:
Minimum 50mm, 150mm typical.

Configuration:
Trapezoidal.

Attachment:
Self-drilling, self tapping fasteners or shot fixed pins.

Accessories:
Flashings made to order by Tegral Metal Forming Ltd.

Structure
Check that structure is in a suitable state to receive decking before commencing fixing. Subcontractor must confirm acceptance to Main contractor.

Isolating Tape (if required)
To be recommended by Tegral. Apply to those surface supports which would otherwise be in contact with sheeting or accessories after fixing.

Fire Resistance Profile Fillers (if required)
Provided by Tegral to accurately match deck profile. Length of fillers equal to width of supports unless otherwise specified. Fill every profile above specified supports, bonding into position with adhesive recommended by the profile filler manufacturer.

Attachment
Primary deck fasteners, fix deck to every support with manufacturers recommended number of fasteners per sheet width through trough of profile. Stitch sheets together along all side laps in trough of profile at manufacturers recommended centres. Stitch non standard end laps in one web of each trough. Check tightness of fixing on completion and ensure decking is not buckled or distorted. The method of attachment of the metal decking and accessories must be sufficient to resist the wind loads on the roof when calculated in accordance with B.S. 6399 Part 2 Standard method and B.S. 5427 Part 1.

Fixing Deck Generally
Cut sheets to give clean true lines with no distortion and without damage to any protective coating, remove burrs and any lubricants. Cut openings in the sheet for outlets, pipes, flues, etc. to the minimum size necessary. Reinforce openings where necessary. Drill all holes and remove all swarf, dust and any other foreign matter before placing any membranes or insulation. Protect sheets during fixing and up to practical completion against mechanical damage, corrosion and disfigurement. Rectify any defects as quickly as possible to minimise damage and nuisance. Ensure fixing operation meets regulatory Health and Safety Requirements.

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