

SUPERDECKING

Superdecking is pultruded as a single profile in which the top surface and legs are integral to the part. The profile geometry allows for flat head screws to be used for securing the decking structure.

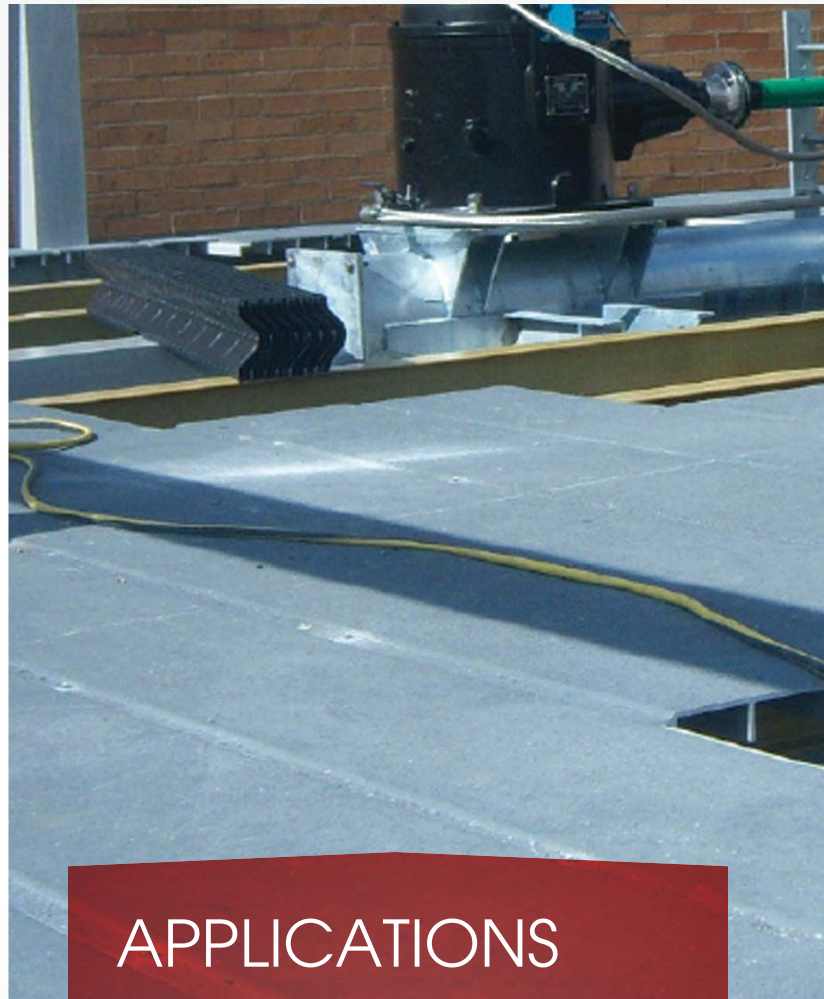
The 24" wide x 1.5" high Superdecking panel is available with or without an antiskid surface.

FEATURES AND BENEFITS /

- Corrosion Resistant
- Lightweight
- Maintenance Free
- Environmentally Safe
- High Strength
- Easy Standard Installation Methods
- Overlapping Joints
- Factory Applied Anti-slip Surface
- Integral Fastener Trough

ANTISKID INFORMATION /

Creative uses a low-VOC, elastomeric acrylic polymer antiskid specially formulated for pedestrian traffic. It yields a sealed and weather-resistant anti-slip surface that meets the requirements of the ADA. Coefficient of Friction Dry 1.3, Wet 0.9. (ADA min requirement = .6).



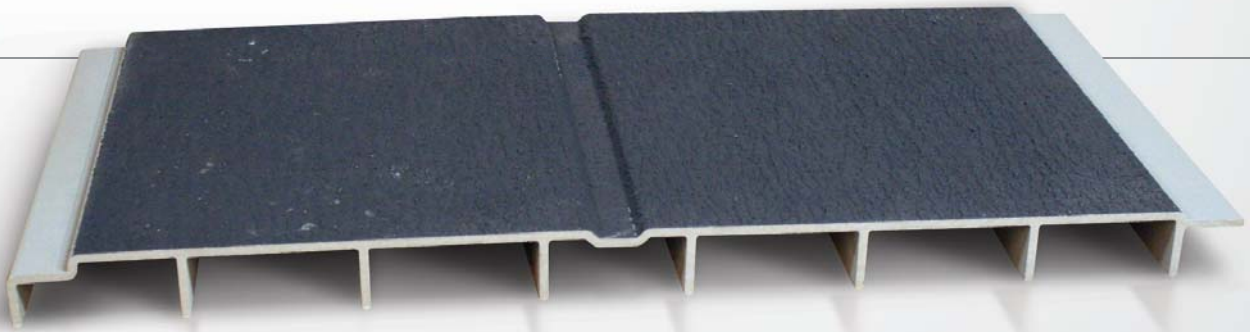
APPLICATIONS

- DECKING FOR WALK WAYS + PLATFORMS
- MARINA DOCK DECKING
- COOLING TOWER DECKING
- SIDEWALKS
- PEDESTRIAN BRIDGE DECKS
- TRENCH COVERS
- ODOR CONTROL COVERS
- WALKWAYS FOR ROOFING
- WALL SIDING

COLOR /

Manufactured in light gray

Note: Special resins, colors and lengths available, contact factory at 888-CPI-PULL.



SUPERDECKING GR100



Simple Supported Beam-Single Span



SuperDecking GR100
24" wide x 1.5" high
1500/1525/1625 Series



Imperial

$E_b = 3.50 \text{ Msi}$ $G_b = 0.30 \text{ Msi}$ Characteristic longitudinal compressive strength (F_L^c) = 25,000 psi
 $I_x = 0.51 \text{ in}^4/\text{ft}$ $S_x = 0.44 \text{ in}^3/\text{ft}$ Characteristic in-plane shear strength (F_{LT}^v) = 5,000 psi
 $A_w = 0.91 \text{ in}^2/\text{ft}$ Weight = 2.6 psf Solid Top Decking

Span (in)	Allowable Concentrated Load Tables (lb/ft width of panel)						Span (in)	Allowable Uniform Load Tables (lb/ft ²)					
	L/D Ratios			Deflection (in)				L/D Ratios			Deflection (in)		
	180	240	360	0.25	0.375	Max. Service Load		180	240	360	0.25	0.375	Max. Service Load
12	****	****	1070	****	****	1467	12	****	2763	1842	****	****	2933
18	****	887	591	****	****	978	18	****	985	656	****	****	1304
24	727	545	364	****	****	733	24	596	447	298	****	****	733
30	486	365	243	****	****	587	30	316	237	158	****	****	469
36	346	260	173	433	****	489	36	187	140	93	234	****	326
42	258	194	129	277	415	419	42	119	89	60	128	191	239
48	200	150	100	187	281	367	48	80	60	40	75	113	183
54	159	119	79	132	199	326	54	57	43	28	47	71	145
60	129	97	65	97	146	293	60	42	31	21	31	47	117
66	107	81	54	73	110	267	66	31	24	16	21	32	97
72	90	68	45	57	85	244	72	24	18	12	15	23	81
78	77	58	39	45	67	226	78	19	14	10	11	16	69
84	67	50	33	36	54	210	84	15	11	8	8	12	60
90	58	44	29	29	44	196	90	12	9	6	6	9	52
96	51	38	26	24	36	183	96	10	8	5	5	7	46

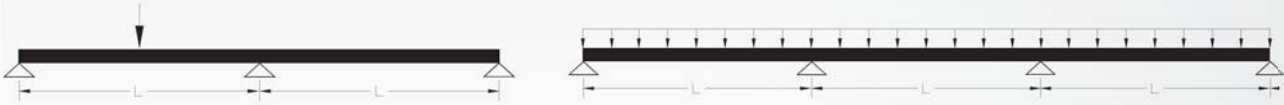
Metric

$E_b = 24.1 \text{ Gpa}$ $G_b = 2.1 \text{ Gpa}$ Characteristic longitudinal compressive strength (F_L^c) = 172 Mpa
 $I_x = 7.0\text{E-}7 \text{ m}^4/\text{m}$ $S_x = 2.4\text{E-}5 \text{ m}^3/\text{m}$ Characteristic in-plane shear strength (F_{LT}^v) = 34 Mpa
 $A_w = 1.9\text{E-}3 \text{ m}^2/\text{m}$ Weight = 12.7 kg/m² Solid Top Decking

Span (m)	Allowable Concentrated Load Tables (kN/m width of panel)						Span (m)	Allowable Uniform Load Tables (kN/m ²)					
	L/D Ratios			Deflection (mm)				L/D Ratios			Deflection (mm)		
	180	240	360	6	10	Max. Service Load		180	240	360	6	10	Max. Service Load
0.25	****	****	19.8	****	****	26.1	0.25	****	****	139.2	****	****	177.1
0.50	****	11.2	7.5	****	****	13.0	0.50	****	37.0	24.7	****	****	52.2
0.75	7.3	5.5	3.7	****	****	8.7	0.75	15.9	11.9	7.9	22.8	****	23.2
1.00	4.3	3.2	2.1	4.6	****	6.5	1.00	6.9	5.2	3.4	7.4	12.4	13.0
1.25	2.8	2.1	1.4	2.4	4.0	5.2	1.25	3.6	2.7	1.8	3.1	5.2	8.4
1.50	1.9	1.5	1.0	1.4	2.3	4.3	1.50	2.1	1.6	1.0	1.5	2.5	5.8
1.75	1.4	1.1	0.7	0.9	1.5	3.7	1.75	1.3	1.0	0.7	0.8	1.4	4.3
2.00	1.1	0.8	0.6	0.6	1.0	3.3	2.00	0.9	0.7	0.4	0.5	0.8	3.3
2.25	0.9	0.7	0.4	0.4	0.7	2.9	2.25	0.6	0.5	0.3	0.3	0.5	2.6
2.50	0.7	0.5	0.4	0.3	0.5	2.6	2.50	0.5	0.3	0.2	0.2	0.3	2.1
2.75	0.6	0.4	0.3	0.2	0.4	2.4	2.75	0.3	0.3	0.2	0.1	0.2	1.7
3.00	0.5	0.4	0.2	0.2	0.3	2.2	3.00	0.3	0.2	0.1	0.1	0.2	1.4

Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.

Simple Supported Beam-Continuous Span



SuperDecking GR100
24" wide x 1.5" high
1500/1525/1625 Series



Imperial

$E_b = 3.50 \text{ Msi}$ $G_b = 0.30 \text{ Msi}$ Characteristic longitudinal compressive strength (F_{L_c}) = 25,000 psi
 $I_x = 0.51 \text{ in}^4/\text{ft}$ $S_x = 0.44 \text{ in}^3/\text{ft}$ Characteristic in-plane shear strength ($F_{L_T^v}$) = 5,000 psi
 $A_w = 0.91 \text{ in}^2/\text{ft}$ Weight = 2.6 psf Solid Top Decking

Allowable Concentrated Load Tables (lb/ft width of panel)							Allowable Uniform Load Tables (lb/ft ²)						
L/D Ratios			Deflection (in)		Max. Service Load	Span (in)	L/D Ratios			Deflection (in)		Max. Service Load	
Span (in)	180	240	360	0.25			0.375	180	240	360	0.25		0.375
12	****	****	1307	****	****	1805	12	****	****	****	****	****	2528
18	****	1145	763	****	****	1204	18	****	1624	1083	****	****	1630
24	****	724	483	****	****	903	24	****	776	517	****	****	917
30	655	491	328	****	****	722	30	564	423	282	****	****	587
36	471	353	235	588	****	602	36	339	254	169	****	****	407
42	353	265	176	378	****	516	42	218	164	109	234	****	299
48	274	205	137	257	385	451	48	148	111	74	139	209	229
54	219	164	109	182	273	401	54	105	79	53	88	132	181
60	178	134	89	134	201	361	60	77	58	39	58	87	147
66	148	111	74	101	151	328	66	58	44	29	40	60	121
72	125	94	62	78	117	301	72	45	34	23	28	42	102
78	107	80	53	62	92	278	78	36	27	18	21	31	87
84	92	69	46	49	74	258	84	29	21	14	15	23	75
90	81	60	40	40	60	241	90	23	17	12	12	17	65
96	71	53	35	33	50	226	96	19	14	10	9	14	57

Metric

$E_b = 24.1 \text{ Gpa}$ $G_b = 2.1 \text{ Gpa}$ Characteristic longitudinal compressive strength (F_{L_c}) = 172 Mpa
 $I_x = 7.0\text{E-}7 \text{ m}^4/\text{m}$ $S_x = 2.4\text{E-}5 \text{ m}^3/\text{m}$ Characteristic in-plane shear strength ($F_{L_T^v}$) = 34 Mpa
 $A_w = 1.9\text{E-}3 \text{ m}^2/\text{m}$ Weight = 12.7 kg/m² Solid Top Decking

Allowable Concentrated Load Tables (kN/m width of panel)							Allowable Uniform Load Tables (kN/m ²)						
L/D Ratios			Deflection (mm)		Max. Service Load	Span (m)	L/D Ratios			Deflection (mm)		Max. Service Load	
Span (m)	180	240	360	6			10	180	240	360	6		10
0.25	****	****	23.4	****	****	32.1	0.25	****	****	****	****	****	147.6
0.50	****	14.6	9.7	****	****	16.1	0.50	****	62.2	41.5	****	****	65.2
0.75	9.8	7.4	4.9	****	****	10.7	0.75	28.2	21.2	14.1	****	****	29.0
1.00	5.8	4.4	2.9	6.3	****	8.0	1.00	12.6	9.4	6.3	13.6	****	16.3
1.25	3.8	2.9	1.9	3.3	5.5	6.4	1.25	6.6	5.0	3.3	5.7	9.5	10.4
1.50	2.7	2.0	1.3	1.9	3.2	5.4	1.50	3.9	2.9	1.9	2.8	4.7	7.2
1.75	2.0	1.5	1.0	1.2	2.0	4.6	1.75	2.5	1.8	1.2	1.5	2.5	5.3
2.00	1.5	1.1	0.8	0.8	1.4	4.0	2.00	1.7	1.2	0.8	0.9	1.5	4.1
2.25	1.2	0.9	0.6	0.6	1.0	3.6	2.25	1.2	0.9	0.6	0.6	0.9	3.2
2.50	1.0	0.7	0.5	0.4	0.7	3.2	2.50	0.9	0.6	0.4	0.4	0.6	2.6
2.75	0.8	0.6	0.4	0.3	0.5	2.9	2.75	0.6	0.5	0.3	0.3	0.4	2.2
3.00	0.7	0.5	0.3	0.2	0.4	2.7	3.00	0.5	0.4	0.2	0.2	0.3	1.8

Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.