

TUF-DEK™

COLOR /

Manufactured in light gray

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

Tuf-dek™ is pultruded as a single profile in which the top surface and legs are integral to the part. The profile geometry and 2-1/8" height allows for superior stiffness and ease of installation. This profile is ideal for weirs, baffle walls and tank covers.

FEATURES AND BENEFITS /

- Corrosion Resistant
- Non-Conductive
- Lightweight
- Maintenance Free
- Environmentally Safe
- High Strength
- Structurally Stable
- Electromagnetic Transparency
- Easy Standard Installation Methods
- Panels easily removed
- Elimination of Expensive Labor and Equipment

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) .

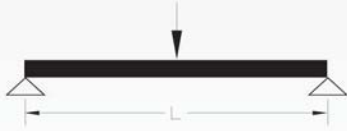


APPLICATIONS

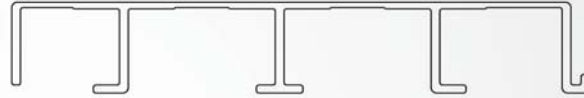
- ADA COMPLIANT RAMP DECKING
- DECKING FOR WALKWAYS + PLATFORMS
- MARINA DOCK DECKING
- SIDEWALKS
- PEDESTRIAN BRIDGE DECKS
- TRENCH COVERS
- ODOR CONTROL COVERS
- WALKWAYS FOR ROOFING
- WALL SIDING
- BAFFLE WALLS
- TRAILER DECKING
- HEAVY DUTY FLOORING
- PIERS

TUF-DEK™ GR303

Simple Supported Beam-Single Span



Tuf-dek™ GR303 Decking
12" wide x 2.125" high
1500/1525/1625 Series



Imperial

$E_b = 2.5 \text{ Msi}$ $G_b = 0.3 \text{ Msi}$ Characteristic longitudinal compressive strength (F_{L^c}) = 25,000 psi
 $I_x = 2.34 \text{ in}^4/\text{ft}$ $S_x = 1.74 \text{ in}^3/\text{ft}$ Characteristic in-plane shear strength (F_{LT^v}) = 5,000 psi
 $A_w = 1.7 \text{ in}^2/\text{ft}$ Weight = 3.26 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)		Max. Service Load		L/D Ratios			Deflection (in)		Max. Service Load
	180	240	360	0.25	0.375			180	240	360	0.25	0.375	
12	5539	4154	2769	****	****	5667	12	****	****	4911	****	****	5667
18	3379	2534	1690	****	****	3867	18	****	2875	1917	****	****	3778
24	2186	1639	1093	****	****	2900	24	1819	1364	909	****	****	2833
30	1503	1128	752	2255	****	2320	30	988	741	494	1483	****	1856
36	1088	816	544	1360	****	1933	36	592	444	296	740	1109	1289
42	820	615	410	879	1318	1657	42	381	285	190	408	612	947
48	639	479	319	599	898	1450	48	258	194	129	242	363	725
54	511	383	255	426	639	1289	54	183	137	92	153	229	573
60	417	313	209	313	470	1160	60	135	101	67	101	151	464
66	347	260	174	237	355	1055	66	102	76	51	69	104	383
72	293	220	147	183	275	967	72	79	59	39	49	74	322
78	251	188	125	145	217	892	78	62	46	31	36	54	275
84	217	163	108	116	174	829	84	50	37	25	27	40	237
90	189	142	95	95	142	773	90	41	30	20	20	30	206
96	167	125	83	78	117	725	96	33	25	17	16	24	181

Metric

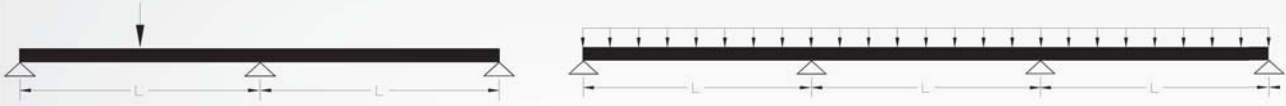
$E_b = 17.2 \text{ Gpa}$ $G_b = 2.1 \text{ Gpa}$ Characteristic longitudinal compressive strength (F_{L^c}) = 172 Mpa
 $I_x = 3.20E-6 \text{ m}^4/\text{m}$ $S_x = 9.36E-5 \text{ m}^3/\text{m}$ Characteristic in-plane shear strength (F_{LT^v}) = 34 Mpa
 $A_w = 3.60E-3 \text{ m}^2/\text{m}$ Weight = 15.9 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)		Max. Service Load		L/D Ratios			Deflection (mm)		Max. Service Load
	180	240	360	6	10			180	240	360	6	10	
0.25	****	72.8	48.5	****	****	82.7	0.25	****	****	****	****	****	330.8
0.50	43.4	32.5	21.7	****	****	51.6	0.50	146.4	109.8	73.2	****	****	165.4
0.75	22.6	16.9	11.3	32.5	****	34.4	0.75	49.5	37.1	24.7	71.2	****	91.7
1.00	13.5	10.1	6.7	14.6	24.3	25.8	1.00	21.9	16.5	11.0	23.7	39.5	51.6
1.25	8.9	6.7	4.4	7.7	12.8	20.6	1.25	11.5	8.6	5.8	9.9	16.6	33.0
1.50	6.3	4.7	3.1	4.5	7.5	17.2	1.50	6.7	5.1	3.4	4.9	8.1	22.9
1.75	4.7	3.5	2.3	2.9	4.8	14.7	1.75	4.3	3.2	2.1	2.6	4.4	16.8
2.00	3.6	2.7	1.8	1.9	3.2	12.9	2.00	2.9	2.2	1.4	1.6	2.6	12.9
2.25	2.9	2.1	1.4	1.4	2.3	11.5	2.25	2.0	1.5	1.0	1.0	1.6	10.2
2.50	2.3	1.7	1.2	1.0	1.7	10.3	2.50	1.5	1.1	0.7	0.6	1.1	8.3
2.75	1.9	1.4	1.0	0.8	1.3	9.4	2.75	1.1	0.8	0.6	0.4	0.7	6.8
3.00	1.6	1.2	0.8	0.6	1.0	8.6	3.00	0.9	0.6	0.4	0.3	0.5	5.7

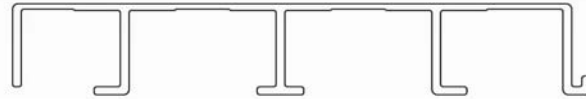
Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.

TUF-DEK™ GR303

Simple Supported Beam-Continuous Span



Tuf-dek™ GR303 Decking
12" wide x 2.125" high
1500/1525/1625 Series



Imperial

$E_b = 2.5 \text{ Msi}$ $G_b = 0.3 \text{ Msi}$ Characteristic longitudinal compressive strength (F_L^c) = 25,000 psi
 $I_x = 2.34 \text{ in}^4/\text{ft}$ $S_x = 1.74 \text{ in}^3/\text{ft}$ Characteristic in-plane shear strength (F_{LT}^y) = 5,000 psi
 $A_w = 1.7 \text{ in}^2/\text{ft}$ Weight = 3.26 psf Solid Top Decking

Allowable Concentrated Load Tables (lb/ft width of panel)							Allowable Uniform Load Tables (lb/ft ²)						
Span (in)	L/D Ratios			Deflection (in)		Max. Service Load	Span (in)	L/D Ratios			Deflection (in)		Max. Service Load
	180	240	360	0.25	0.375			180	240	360	0.25	0.375	
12	****	****	3232	****	****	4772	12	****	****	****	****	****	4722
18	4206	3154	2103	****	****	4760	18	****	****	2952	****	****	3148
24	2824	2118	1412	****	****	3570	24	****	2254	1502	****	****	2361
30	1986	1489	993	****	****	2356	30	1701	1276	850	****	****	1889
36	1457	1093	728	1821	****	2380	36	1044	783	522	1305	****	1574
42	1108	831	554	1187	1781	2040	42	683	512	341	731	1097	1184
48	868	651	434	814	1221	1785	48	469	352	234	440	659	906
54	697	523	349	581	872	1587	54	335	251	168	279	419	716
60	572	429	286	429	643	1428	60	247	186	124	186	278	580
66	476	357	238	325	487	1298	66	188	141	94	128	192	479
72	403	302	202	252	378	1190	72	146	109	73	91	136	403
78	345	259	173	199	299	1098	78	115	86	58	66	100	343
84	299	224	149	160	240	1020	84	93	69	46	50	74	296
90	261	196	131	131	196	952	90	76	57	38	38	57	258
96	230	173	115	108	162	892	96	62	47	31	29	44	227

Metric

$E_b = 17.2 \text{ Gpa}$ $G_b = 2.1 \text{ Gpa}$ Characteristic longitudinal compressive strength (F_L^c) = 172 Mpa
 $I_x = 3.20\text{E-}6 \text{ m}^4/\text{m}$ $S_x = 9.36\text{E-}5 \text{ m}^3/\text{m}$ Characteristic in-plane shear strength (F_{LT}^y) = 34 Mpa
 $A_w = 3.60\text{E-}3 \text{ m}^2/\text{m}$ Weight = 15.9 kg/m² Solid Top Decking

Allowable Concentrated Load Tables (kN/m width of panel)							Allowable Uniform Load Tables (kN/m ²)						
Span (m)	L/D Ratios			Deflection (mm)		Max. Service Load	Span (m)	L/D Ratios			Deflection (mm)		Max. Service Load
	180	240	360	6.35	9.525			180	240	360	6.35	9.525	
0.25	****	****	54.9	****	****	69.6	0.25	****	****	****	****	****	275.7
0.50	54.6	41.0	27.3	****	****	63.5	0.50	****	****	115.5	****	****	137.8
0.75	29.7	22.3	14.9	****	****	42.3	0.75	84.9	63.7	42.4	****	****	31.9
1.00	18.2	13.6	9.1	20.8	31.1	31.8	1.00	39.1	29.3	19.6	44.7	****	34.5
1.25	12.1	9.1	6.1	11.1	16.6	25.4	1.25	20.9	15.7	10.5	19.1	28.7	41.3
1.50	8.6	6.4	4.3	6.5	9.8	21.2	1.50	12.4	9.3	6.2	9.4	14.2	28.7
1.75	6.4	4.8	3.2	4.2	6.3	18.1	1.75	7.9	5.9	4.0	5.2	7.8	21.1
2.00	4.9	3.7	2.5	2.8	4.2	15.9	2.00	5.4	4.0	2.7	3.1	4.6	16.1
2.25	3.9	3.0	2.0	2.0	3.0	14.1	2.25	3.8	2.8	1.9	1.9	2.9	12.7
2.50	3.2	2.4	1.6	1.5	2.2	12.7	2.50	2.8	2.1	1.4	1.3	1.9	10.3
2.75	2.7	2.0	1.3	1.1	1.7	11.5	2.75	2.1	1.6	1.0	0.9	1.3	8.5
3.00	2.2	1.7	1.1	0.9	1.3	10.6	3.00	1.6	1.2	0.8	0.6	0.9	7.2

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