



SuperPlank™ Decking Products

Features and Benefits

SuperPlank™ Flooring is used in many industrial markets for access systems and walkways. SuperPlank™ has all the advantages of molded and pultruded grating with the bonus of a tongue and groove interlocking system.

Features

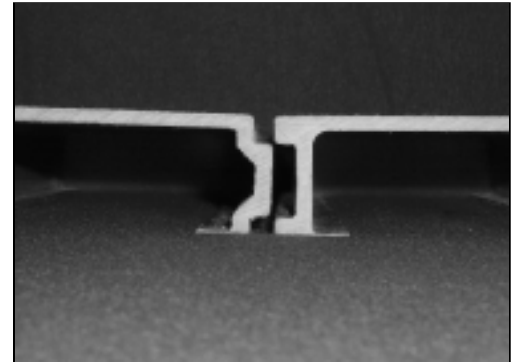
- Installs 40% faster compared to other flooring/grating products.
- Rigid, solid work platforms offer safe working conditions.
- Tongue and groove connection reduces trip hazards associated with typical pultruded grating and other decking systems in the market.
- Minimal visibility through open flooring panels.
- Panels can be sealed for cover applications to control odors.
- Panels are easily attached with a unique SuperPlank™ Clip.
- Available in solid surface or 7% open.

Benefits

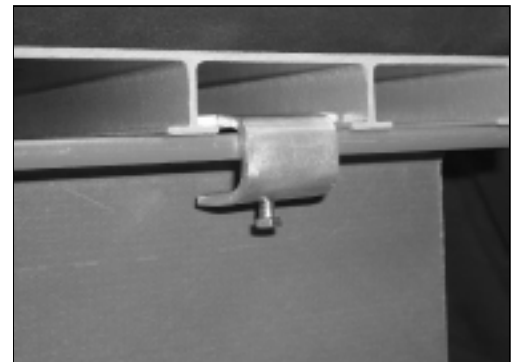
- Corrosion Resistant
- High Strength
- Lightweight
- Non-conductive
- Maintenance Free
- Environmentally Safe

Applications

- Platforms
- Walkways
- Bulk Heads
- Structural Roofing
- Bridge Decks
- Windwalls
- Scaffolding Boards
- Cooling Tower Decks
- Machinery Guards
- Trench Covers (non-vehicular)
- Truck Floors
- Sidewalks
- Baffle Walls



Tongue and Groove Connection



Unique Beam Clip Connection



*Pultruded Component Handicap Ramp
Beacon Lodge*



SuperPlank™ Decking Products

Technical Information

Part Description:

SuperPlank™ 2415 Decking (Part# GR205)

Available in 1500/1525/1625 Series

Panel Width/Height:

24"/1.5"

Approx. Weight (Including Antiskid):

2.7 psf

$E_a = 3.0E6$ psi $G_{xy} = 3.0E5$ psi

Ultimate Bending Stress (f_b):

30,000 psi

$I_x/ft = 0.85$ in⁴ $S_{x_{rt}} = 0.80$ in³

Ultimate In-plane Shear Stress (f_v):

5,000 psi

$A_w/ft = 0.72$ in²

(Parallel to Webs)

Single Span, Solid Surface Planking													
Concentrated Load Tables (lbs.) (Lbs./ foot width of panel)							Uniform Load Tables (psf) (Lbs. per square foot of Panel)						
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	2396	1797	1198	****	****	2415	12	*****	****	2128	****	****	2415
18	1470	1103	735	****	****	2347	18	*****	1252	835	****	****	1610
24	954	716	477	****	****	1760	24	795	596	397	1490	****	1208
30	657	493	329	986	****	1408	30	432	324	216	649	973	966
36	476	357	238	595	893	1173	36	259	194	130	324	486	782
42	359	269	180	385	577	1006	42	167	125	83	179	268	575
48	280	210	140	262	394	880	48	113	85	57	106	159	440
54	224	168	112	187	280	782	54	80	60	40	67	100	348
60	183	137	92	137	206	704	60	59	44	30	44	66	282
66	152	114	76	104	156	640	66	45	33	22	30	46	233
72	129	96	64	80	121	587	72	34	26	17	22	32	196
78	110	82	55	63	95	542	78	27	20	14	16	24	167
84	95	71	48	51	76	503	84	22	16	11	12	18	144
90	83	62	42	42	62	469	90	18	13	9	9	13	125
96	73	55	37	34	51	440	96	15	11	7	7	10	110

Single Span, 7% Open Surface Planking													
Concentrated Load Tables (lbs.) (Lbs./ foot width of panel)							Uniform Load Tables (psf) (Lbs. per square foot of Panel)						
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	****	1754	1170	****	****	2200	12	*****	****	2072	****	****	2415
18	1422	1067	711	****	****	1467	18	*****	1209	806	****	****	1610
24	918	689	459	****	****	1100	24	764	573	382	1432	****	1100
30	631	473	315	946	****	880	30	415	311	207	622	933	704
36	456	342	228	570	856	733	36	248	186	124	310	465	489
42	344	258	172	368	553	629	42	159	120	80	171	256	359
48	268	201	134	251	377	550	48	108	81	54	102	152	275
54	214	161	107	178	268	489	54	77	58	38	64	96	217
60	175	131	87	131	197	440	60	56	42	28	42	63	176
66	145	109	73	99	149	400	66	43	32	21	29	44	145
72	123	92	61	77	115	367	72	33	25	16	21	31	122
78	105	79	53	61	91	338	78	26	19	13	15	22	104
84	91	68	45	49	73	314	84	21	16	10	11	17	90
90	79	59	40	40	59	293	90	17	13	8	8	13	78
96	70	52	35	33	49	275	96	14	11	7	7	10	69

- Notes:
- The above table was derived from the results of full section testing. The ultimate load was derived by using a safety factor of 3 for shear and 2.5 for flexure.
 - All loads are in lbs/ft of panel for point loads and psf for uniform loads.
 - Values are for design selection and are not intended to be exact. Creative Pultrusions recommends selecting SuperPlank™ flooring products based on a deflection of .25-inch or less. This deflection may be exceeded at the discretion of the designer. Deflections of .25-inch or less will give excellent pedestrian comfort.
 - SuperPlank™ is not intended for fork lift traffic. Consult Creative Pultrusions, Inc. for additional information regarding moving loads.



SuperPlank™ Decking Products

Technical Information

Part Description:

SuperPlank™ 2415 Decking (Part# GR205)

Panel Width/Height:

Available in 1500/1525/1625 Series

24"/1.5"

Approx. Weight (Including Antiskid):

2.7 psf

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Ultimate Bending Stress:

30,000 psi

$I_x/ft = 0.85$ in⁴ $S_{x_{ft}} = 0.80$ in³

Ultimate In-plane Shear Stress (f_v):

5,000 psi

$A_w/ft = 0.72$ in²

(Parallel to Webs)

Continuous Span, Solid Surface Planking														
Span (in)	Concentrated Load Tables (lbs.) (Lbs./ foot width of panel)						Max. Service Load	Span (in)	Uniform Load Tables (psf) (Lbs. per square foot of Panel)					
	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	****	****	1395	****	****	2034	12	****	****	****	****	****	2013	
18	1826	1369	913	****	****	2034	18	****	****	1281	****	****	1342	
24	1231	923	615	****	****	2034	24	****	981	654	****	****	1006	
30	867	650	434	1301	****	1733	30	742	557	371	****	****	805	
36	637	478	319	796	1195	1444	36	456	342	228	571	****	671	
42	485	364	243	520	780	1238	42	299	224	149	320	480	575	
48	380	285	190	357	535	1083	48	205	154	103	192	289	503	
54	306	229	153	255	382	963	54	147	110	73	122	183	435	
60	250	188	125	188	282	867	60	108	81	54	81	122	352	
66	209	157	104	142	214	788	66	82	62	41	56	84	291	
72	177	133	88	110	166	722	72	64	48	32	40	60	244	
78	151	114	76	87	131	667	78	51	38	25	29	44	208	
84	131	98	66	70	105	619	84	41	30	20	22	33	180	
90	115	86	57	57	86	578	90	33	25	17	17	25	156	
96	101	76	51	47	71	542	96	27	21	14	13	19	138	

Continuous Span, 7% Open Surface Planking														
Span (in)	Concentrated Load Tables (lbs.) (Lbs./ foot width of panel)						Max. Service Load	Span (in)	Uniform Load Tables (psf) (Lbs. per square foot of Panel)					
	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	****	****	1367	****	****	2034	12	****	****	****	****	****	2013	
18	1773	1329	886	****	****	1805	18	****	****	1245	****	****	1342	
24	1188	891	594	****	****	1354	24	****	948	632	****	****	1006	
30	834	625	417	****	****	1083	30	714	536	357	****	****	805	
36	611	459	306	764	****	903	36	438	329	219	548	****	611	
42	465	349	232	498	747	774	42	286	215	143	307	****	449	
48	364	273	182	341	512	677	48	197	147	98	184	276	344	
54	292	219	146	244	365	602	54	140	105	70	117	176	272	
60	240	180	120	180	269	542	60	104	78	52	78	117	220	
66	200	150	100	136	204	492	66	79	59	39	54	80	182	
72	169	127	84	106	158	451	72	61	46	31	38	57	153	
78	145	108	72	83	125	417	78	48	36	24	28	42	130	
84	125	94	63	67	101	387	84	39	29	19	21	31	112	
90	109	82	55	55	82	361	90	32	24	16	16	24	98	
96	96	72	48	45	68	339	96	26	20	13	12	18	86	

- Notes:
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SuperPlank™ Decking Products

Connections

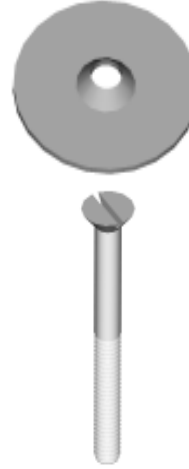
Deck Screw Mount



**Type A Flathead
Self Tapping Screw**
#10 x 2.5" 18-8 Stainless
Phillips Drive
Part# CLP033

Note: Typical pull through strength
when countersunk into SuperPlank™
is 100 lbs./fastener.

Top Surface Mount Assembly 316 Stainless Steel

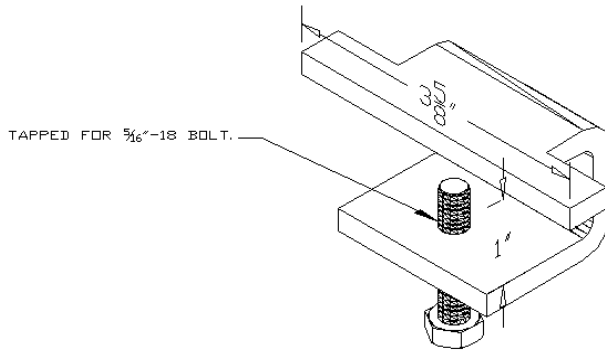


Top Surface Washer
Diameter: 2"
Hole Size: 11/32"
Thickness: 14 Gauge
Part # CLP004

Flat Head Bolt (5/16" x 18 x 2 3/4")
Part# CLP002
5/16 - 18 Nut - Part # CLP003
5/16 Flat Washer -Part # CLP031
5/16 Lock Washer - Part # CLP032
Kit Part # CLK018

Note: The washer is designed
to recess into 5/8" slot or hole.

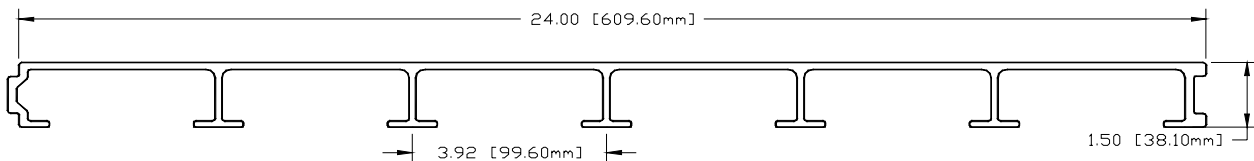
Heavy Duty Beam Clip Mount



**316 Stainless Steel
Beam Clip**
Part # CLP034

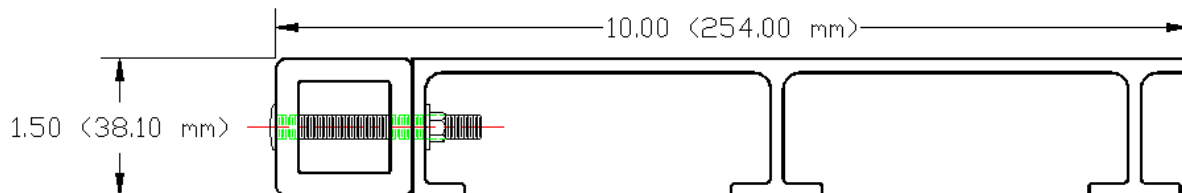
Note: Comes with 5/16" bolt.

SuperPlank™ 24" - Part # GR205



Note: Standard slot size in open surface is 1.5" x .625".

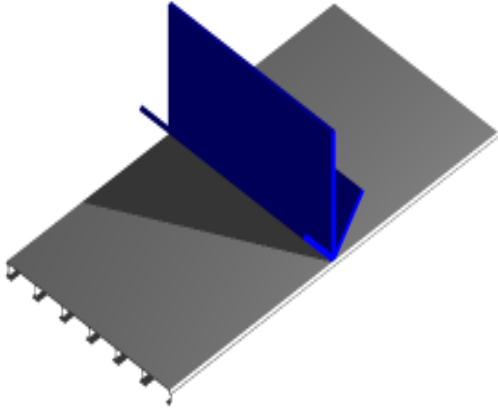
Stair Treads - Part # GR205.221-ST(IFR)



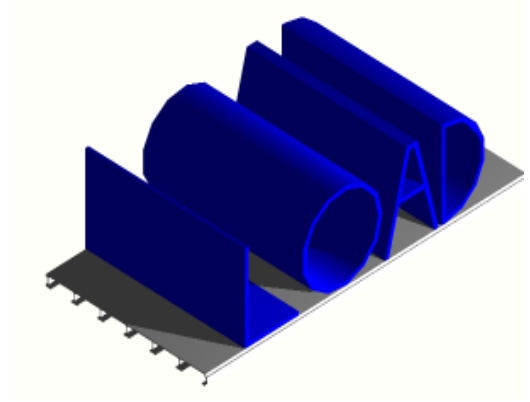


SuperPlank™ Decking Products

Load Information



Concentrated load lbs/ft width of decking



Uniform Load (psf)

Available with or without coated surface. Gridded surface is a chemical resistant, cross-linking, non-skid coating.