

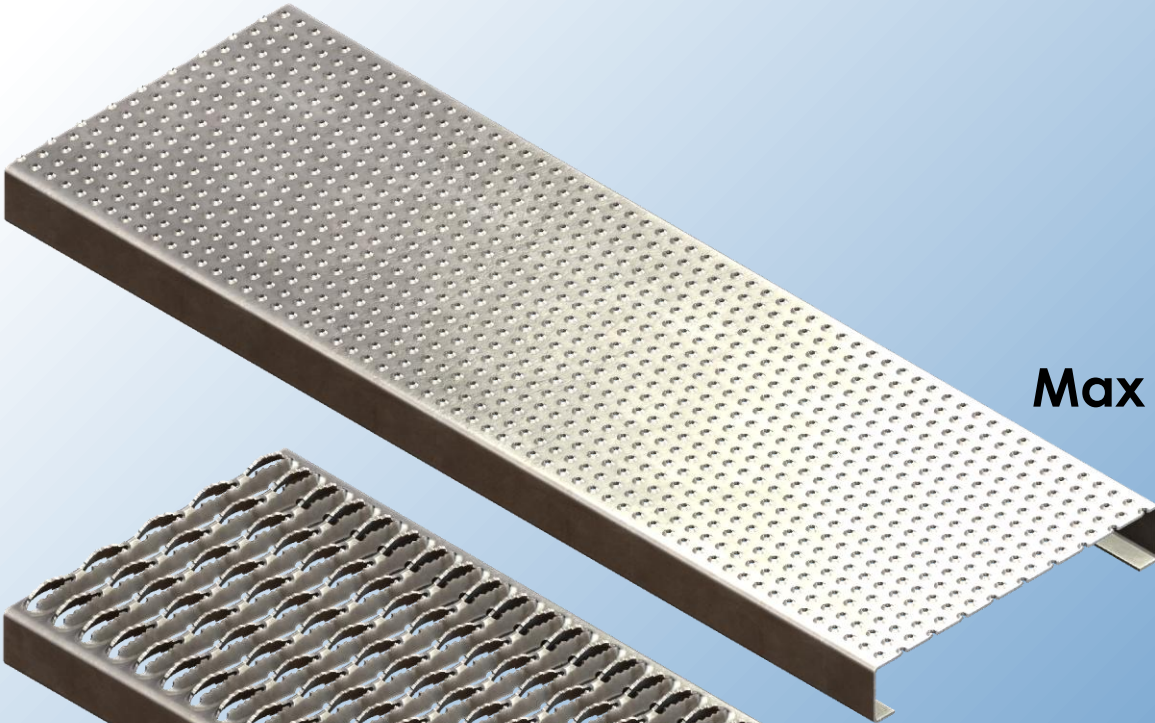


# IGP

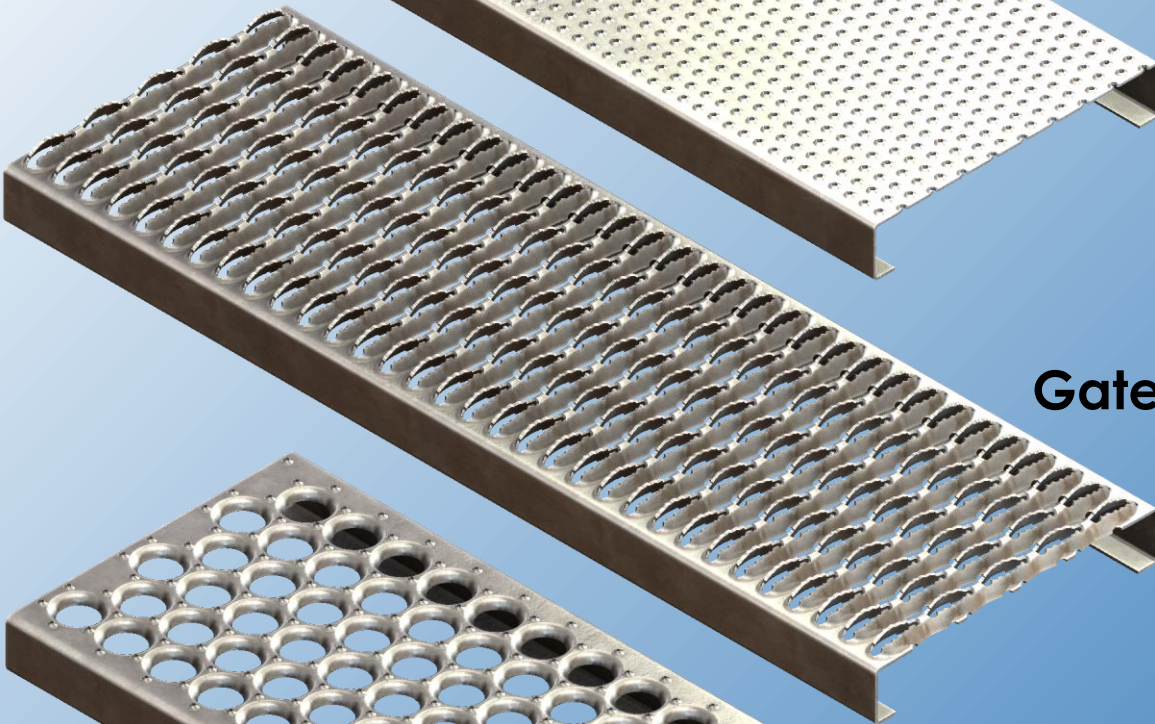
## INDUSTRIAL GRATING PRODUCTS



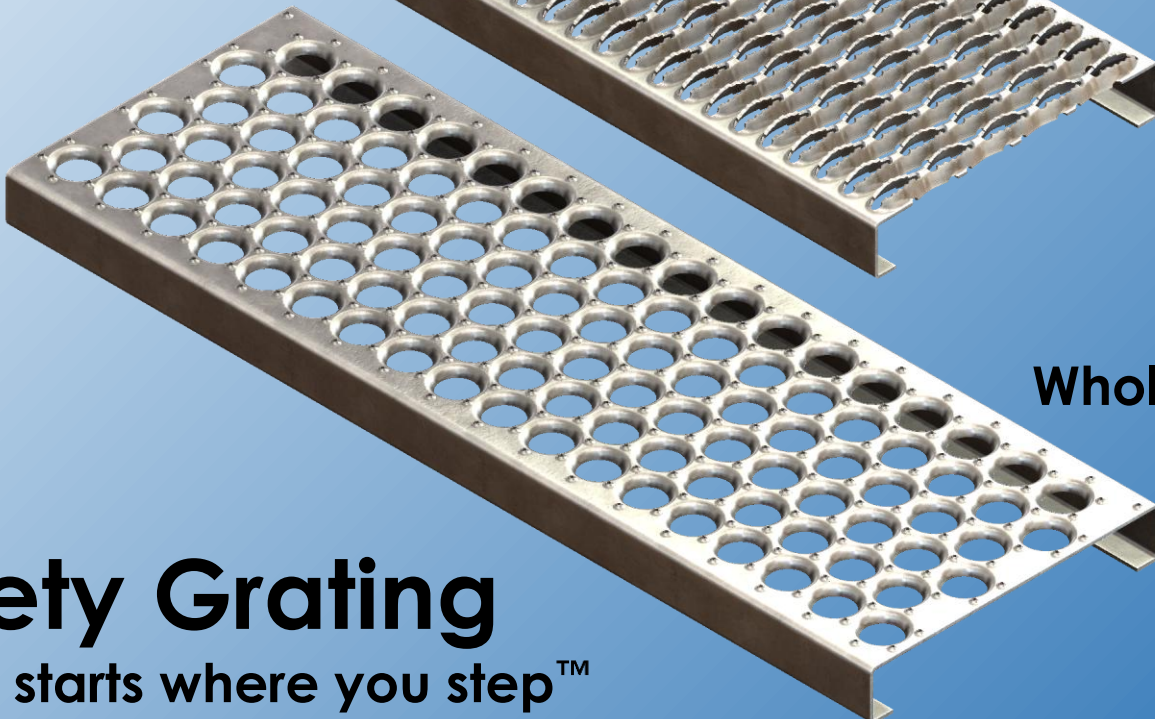
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**Max Tread™**



**Gater Grip™**











**Whole Grip™**

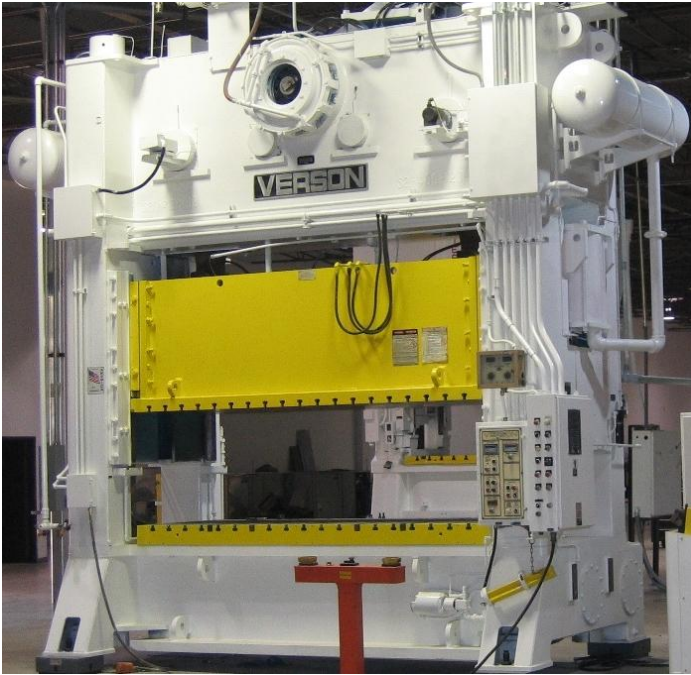
# Safety Grating

Safety starts where you step™

# Safety Grating vs. Bar Grating



Feature	Safety Grating	Bar Grating
<b>Slip Resistance</b>	 Superior Traction, Serrated Design	 Limited Slip Protection
<b>Weight</b>	 Up to <b>73%</b> Lighter per foot <sup>2</sup>	 Heavy & Hard to Handle
<b>Cost</b>	 Up to <b>68%</b> Cheaper per foot <sup>2</sup>	 Higher Total Cost
<b>Installation</b>	 Easy to Cut, Bolt, or Clamp	 Requires Welding & More Support



## Factory-Direct Savings

Grating is sold directly from our factory, eliminating middlemen and ensuring you get the best value at competitive prices.

## Made in the USA

All of our grating is stamped and manufactured in Dallas, Texas, using American labor and high-quality U.S. steel, aluminum, and stainless steel.

## Precision Stamped for Strength

Manufactured using high-tonnage stamping presses, our grating is engineered for consistency, superior strength, and long-lasting performance.

## Fast Lead Times

Because we manufacture in-house and maintain inventory of many standard products, we offer shorter lead times and quick order fulfillment, outperforming overseas suppliers.



## Manufacturing Since 2017

IGP has been designing and manufacturing grating solutions since 2017, serving industrial and commercial markets with high-quality, precision-engineered products.

## ISO 9001:2015 Certified Quality

We are proud to be ISO 9001:2015 certified, ensuring that every piece of grating meets the highest quality standards for performance, safety, and reliability.

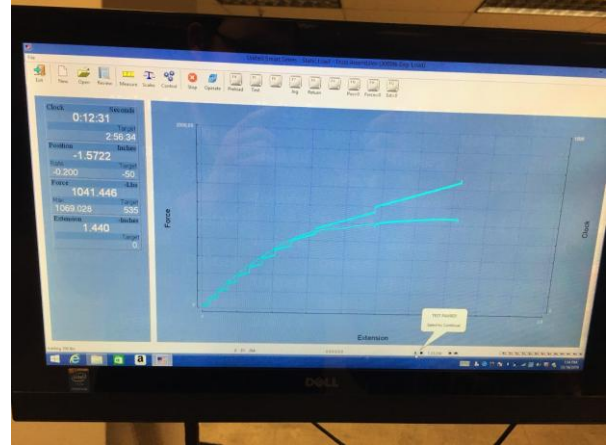
## Commitment to Safety

Every product we manufacture is quality-tested and built to meet or exceed industry standards for durability and safety.

## Custom Solutions Available

Need a specialized solution? We offer custom grating designs, materials, and finishes to meet your exact needs.





## How Load Data Was Generated

The following tables were created using actual load testing. To ensure the reliability of the listed load capacities, two critical performance aspects of Grip Strut safety grating were evaluated:

### Strut Flexure

- Strut flexure refers to the transverse bending of the grating surface under uniform or concentrated loads. This bending occurs when the grating's surface deflects relative to the side channels.
- Load tests were performed on samples of varying grating materials, widths, and thicknesses to determine allowable strut loads.
- The resulting data informed the preparation of the **strut loading tables**, which show acceptable loads and corresponding deflections based solely on strut flexure.

### Channel Flexure

- Channel flexure occurs when the grating's side channels deflect at mid-span relative to their support points.
- To test this, samples were loaded at different spans with both uniform and concentrated loads. The tests simulated the most severe conditions, with no attachments between channels and supports.
- Shorter spans, deeper channels, and wider planks were found to make strut flexure more significant than channel flexure.

### Load Data and Material Strength

Yield strength used in calculations:

- Steel: 30,000 psi
- Aluminum: 22,000 psi
- Stainless Steel: 33,000 psi

**Allowable Uniform Load (U):** The smallest of the following:

- The maximum uniform load limited by channel flexure.
- The maximum surface flexure capacity.

**Deflection for Uniform Load (U):**

- Listed below uniform load values, showing mid-span side channel deflection under allowable loads.

**Allowable Concentrated Load (C):** The smallest of the following:

- The maximum concentrated load limited by channel flexure, assuming both side channels are effective.
- The maximum allowable strut load for a 1-foot-long section.

**Deflection for Concentrated Load (C):**

- Listed below concentrated load values, showing mid-span side channel deflection when the load is applied.



Engineered for superior traction and durability, Max Tread™ features a high-performance surface with hundreds of raised perforated buttons, delivering multi-directional slip resistance in even the most demanding environments. Designed for industrial and commercial applications, this grating provides a secure walking surface while meeting stringent safety standards.

## Reliable Slip Resistance

- Traction-enhancing perforated buttons ensure grip in all directions, reducing the risk of slips and falls.
- Designed for areas with frequent pedestrian traffic, making it a practical and durable solution for high-use environments.
- ADA-compliant, meeting accessibility standards for safe and stable walking surfaces.
- Perfect for walkways, ramps, stair treads, platforms, and reconditioning worn surfaces that lack slip resistance.
- Easily integrated into custom fabrication projects, making it ideal for specialty industrial applications.
- Available in various hole patterns to accommodate specific project needs.
- Can be cut to order and fabricated for unique configurations upon request.

## Built for Durability & Longevity

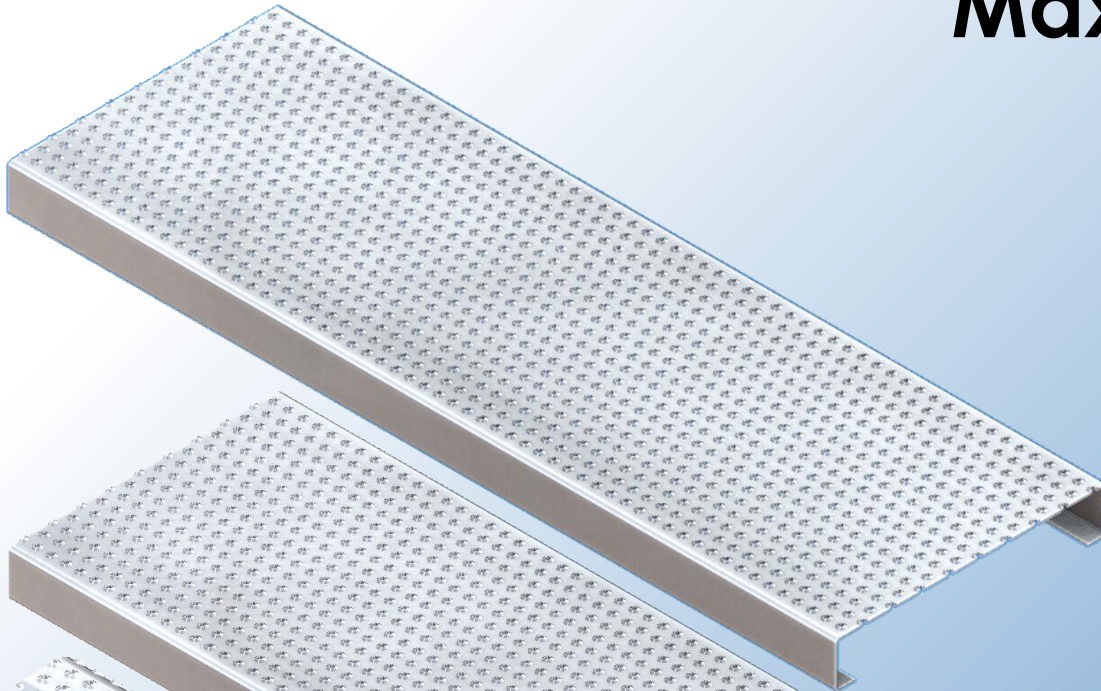
- Manufactured with high-strength materials to withstand heavy foot traffic and industrial use.
- Resilient construction offers exceptional wear resistance for long-term reliability.
- Designed for low-maintenance performance, providing a cost-effective solution for safe and durable flooring.

## Custom Fabrication & Configurations

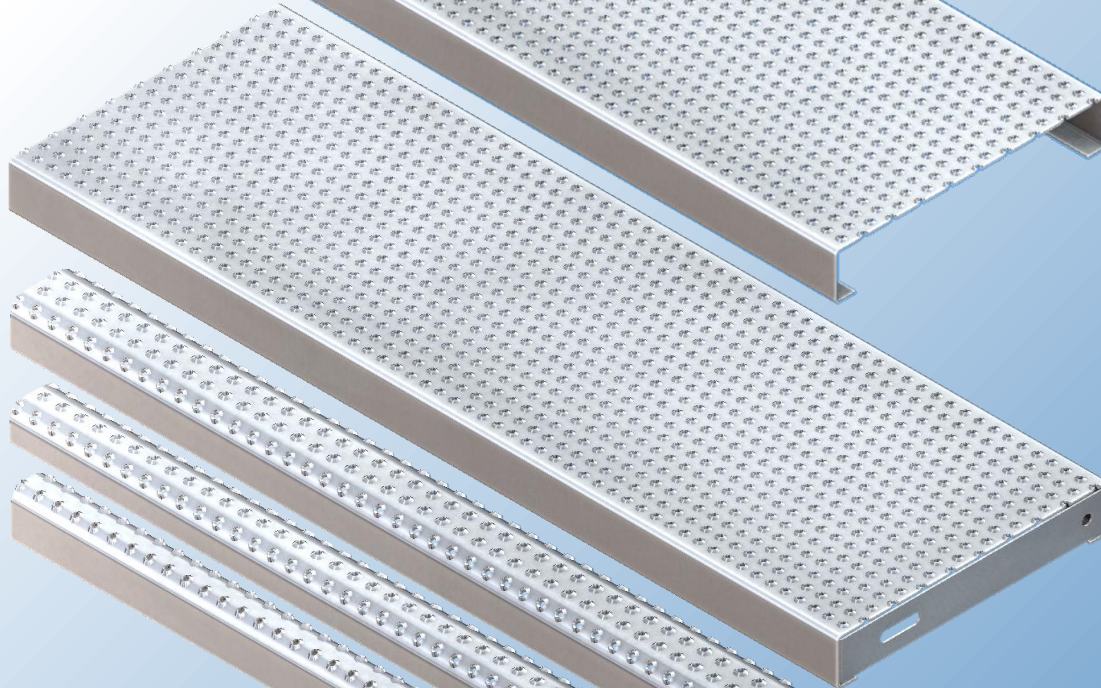
- Special cutting, shaping, and fabrication services are available to match custom specifications.
- Designed for easy installation in both new builds and retrofit applications.
- Available in a range of materials, sizes, and finishes to suit your project's requirements.



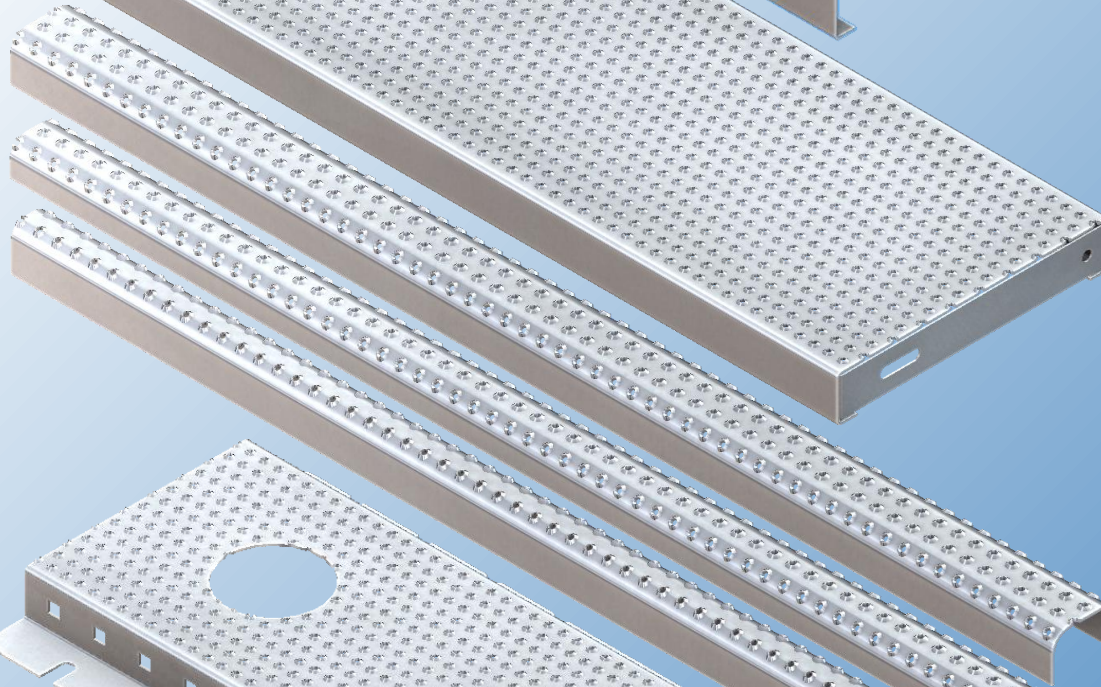
# Max Tread™



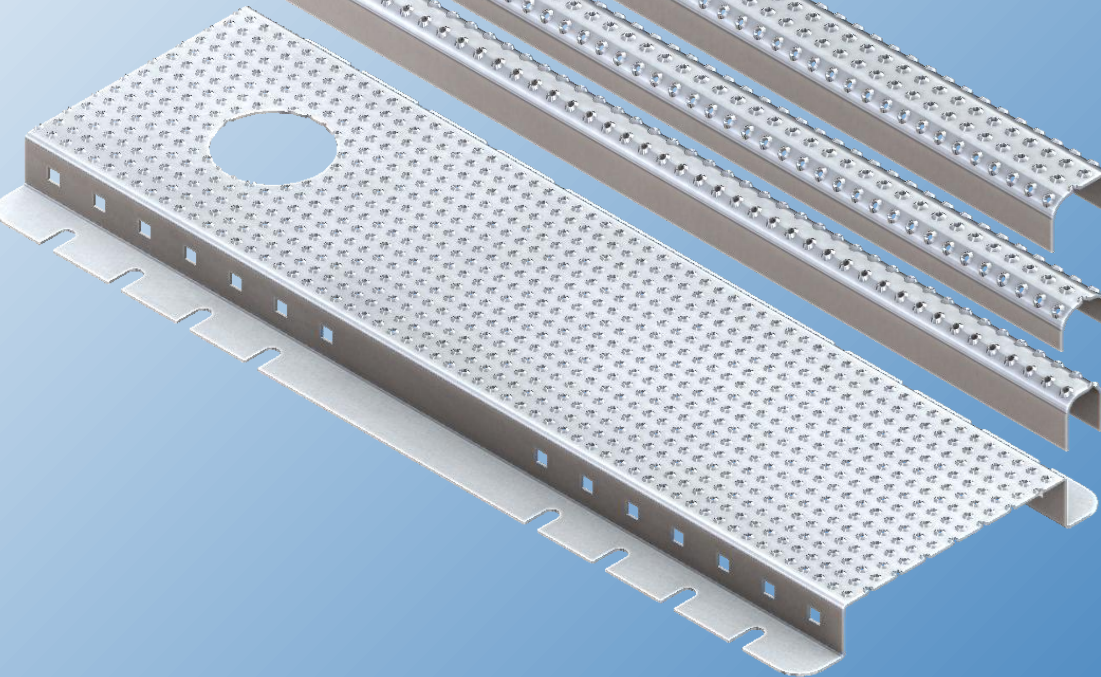
**Planks**



**Stair Treads**

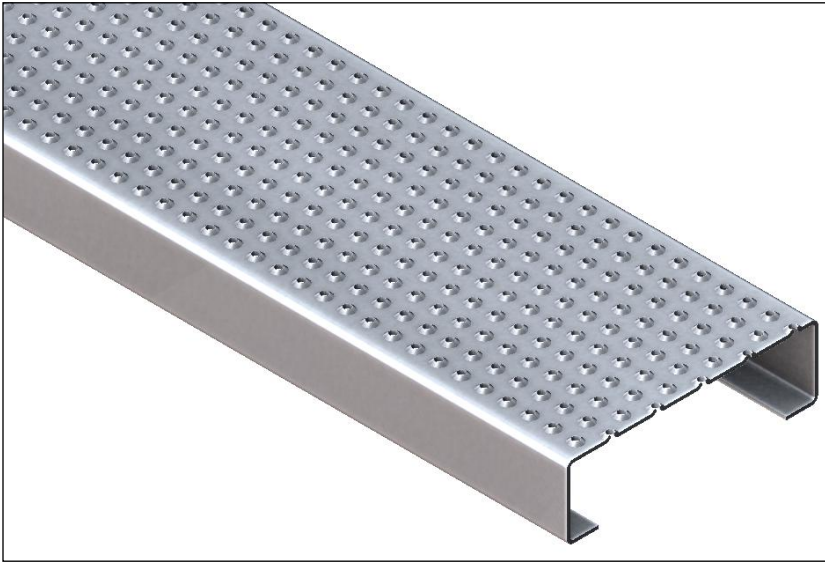


**Ladder Rungs**



**Customized Grating**

## 7" WIDTH – 10 DIMPLE



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALV	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM	5052-H32	8 ga (.125")
STAINLESS	304 Stainless Steel	16 ga (.060")

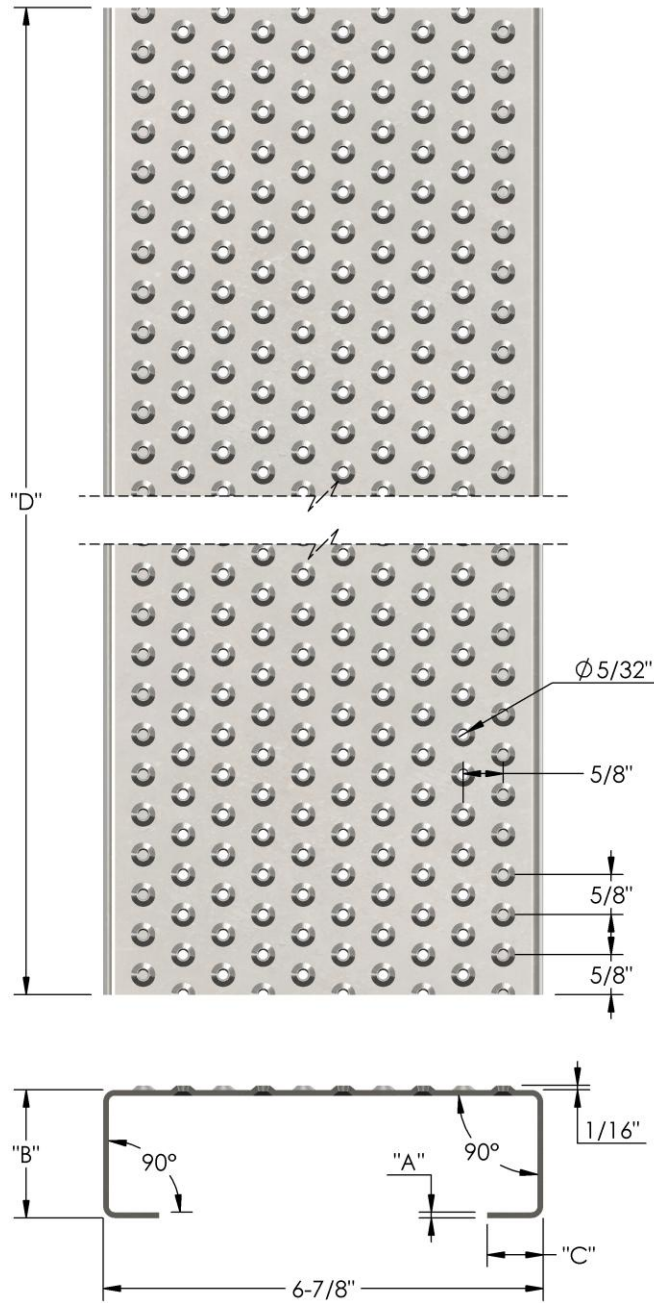
Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD		CLEAR SPAN																							
TYPE	GAUGE			DEFL		2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'			
ALUMINUM	8 GA .1250"	1.50"	1.60	U	529	339	235	173	132	105	85	70	59	50	43	38	33	29	26	23	21	19	18	16	15				
			D	0.03	0.04	0.06	0.09	0.11	0.14	0.18	0.21	0.25	0.30	0.35	0.40	0.45	0.51	0.57	0.64	0.70	0.78	0.85	0.93	1.01					
		2.00"	1.75	U	1018	652	453	332	255	201	163	135	113	96	83	72	64	56	50	45	41	37	34	31	28				
			D	0.03	0.04	0.06	0.09	0.11	0.14	0.17	0.21	0.25	0.29	0.34	0.39	0.45	0.50	0.56	0.63	0.70	0.77	0.84	0.92	1.00					
HRPO & GALVANIZED STEEL	13 GA .0897"	1.50"	3.30	U	1152	737	512	376	288	228	184	152	128	109	94	82	72	64	57	51	46	42	38	35	32				
			D	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.21	0.25	0.29	0.33	0.38	0.44	0.49	0.55	0.62	0.68	0.75	0.83	0.90	0.98					
		2.00"	3.60	U	2304	1475	1024	752	576	455	369	305	256	218	188	164	144	128	114	102	92	84	76	70	64				
			D	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.21	0.25	0.29	0.33	0.38	0.44	0.49	0.55	0.62	0.68	0.75	0.83	0.90	0.98					
		3.00"	4.21	U	6100	3904	2711	1992	1525	1205	976	807	678	578	498	434	381	338	301	270	244	221	202	185	169				
			D	0.03	0.04	0.06	0.09	0.11	0.14	0.17	0.21	0.25	0.30	0.34	0.39	0.45	0.51	0.57	0.63	0.70	0.77	0.85	0.93	1.01					
	11 GA .1196"	1.50"	4.32	U	1440	922	640	470	360	284	230	190	160	136	118	102	90	80	71	64	58	52	48	44	40				
			D	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.21	0.25	0.29	0.34	0.39	0.44	0.50	0.56	0.62	0.69	0.76	0.84	0.92	1.00					
		2.00"	4.72	U	2906	1860	1292	949	727	574	465	384	323	275	237	207	182	161	144	129	116	105	96	88	81				
			D	0.03	0.04	0.06	0.09	0.11	0.14	0.17	0.21	0.25	0.30	0.34	0.39	0.45	0.50	0.57	0.63	0.70	0.77	0.84	0.92	1.01					
		3.00"	5.54	U	7828	5010	3479	2556	1957	1546	1253	1035	870	741	639	557	489	433	387	347	313	284	259	237	217				
			D	0.03	0.04	0.06	0.09	0.11	0.14	0.17	0.21	0.25	0.29	0.34	0.39	0.45	0.50	0.56	0.63	0.70	0.77	0.84	0.92	1.00					

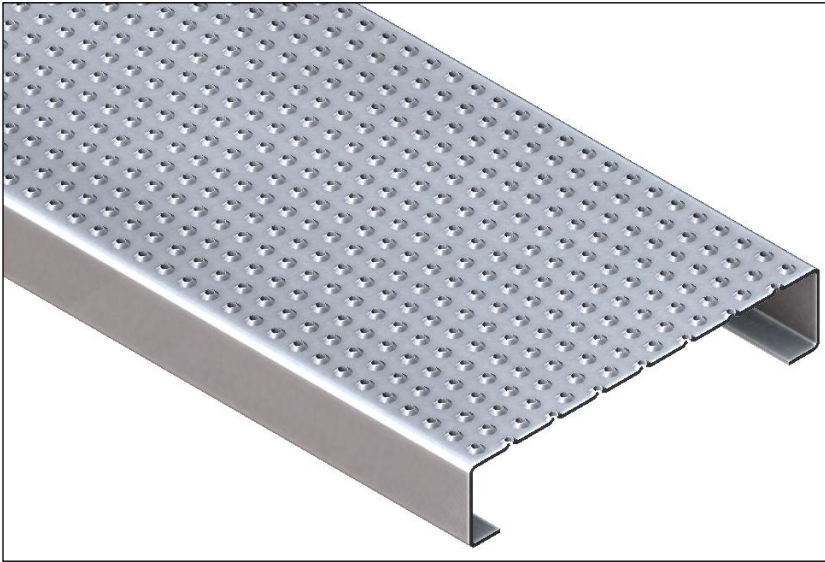
These load tables are based on physical test results and are provided for reference only. Safe use and installation of grating products involve factors beyond testing conditions. Users should consult a licensed engineer and exercise independent judgment. This technical information is for evaluation by skilled professionals, and any use is at their own discretion and risk. IGP assumes no responsibility or liability for outcomes or damages resulting from improper assessment or use of grating products.

## 7" WIDTH – 10 DIMPLE



Material		Thickness	Height	Flange	Length
Type	Description	"A"	"B"	"C"	"D"
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")	1-1/2"	1-3/8"	120"
		11 ga (.120")			
GALVANIZED STEEL	ASTM 653 Mill- Galvanized G90	13 ga (.090")	2"	7/8"	144-3/8"
		11 ga (.120")			
ALUMINUM	5052-H32	8 ga (.125")	Custom	Custom	Custom
STAINLESS	304 Stainless Steel	16 ga (.060")			

## 10" WIDTH – 15 DIMPLE



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALV	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM	5052-H32	8 ga (.125")
STAINLESS	304 Stainless Steel	16 ga (.060")

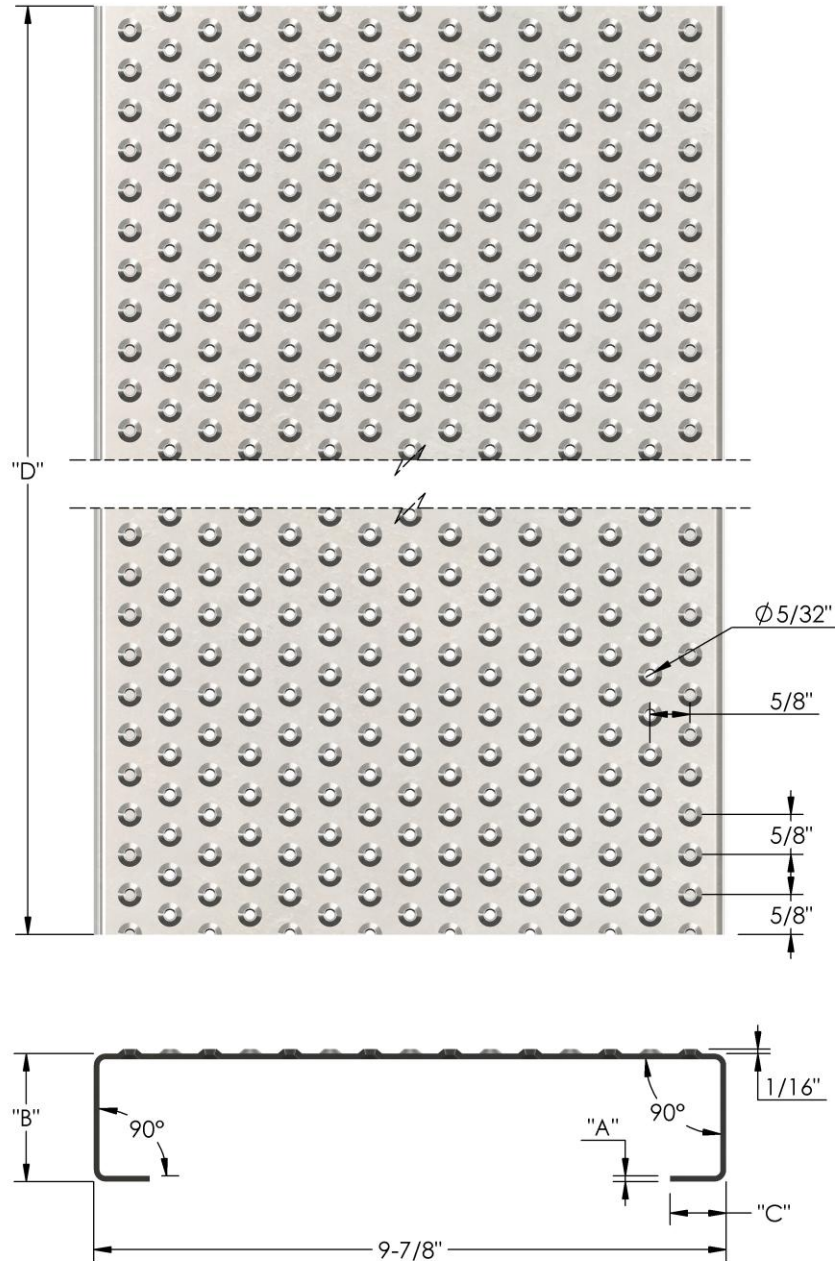
Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																							
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'		
ALUMINUM	8 GA .1250"	1.50"	U	383	245	170	125	96	76	61	51	43	36	31	27	24	21	19	17	15	14	13	12	11				
			D	0.03	0.04	0.06	0.09	0.11	0.14	0.17	0.21	0.25	0.29	0.34	0.39	0.44	0.50	0.56	0.63	0.69	0.77	0.84	0.92	1.00				
		2.00"	U	780	499	347	255	195	154	125	103	87	74	64	55	49	43	39	35	31	28	26	24	22				
			D	0.03	0.04	0.06	0.09	0.11	0.14	0.18	0.21	0.25	0.30	0.35	0.40	0.45	0.51	0.57	0.64	0.71	0.78	0.86	0.94	1.02				
HRPO & GALVANIZED STEEL	13 GA .0897"	1.50"	U	875	560	389	286	219	173	140	116	97	83	71	62	55	48	43	39	35	32	29	26	24				
			D	0.03	0.04	0.06	0.09	0.11	0.14	0.17	0.21	0.25	0.30	0.34	0.39	0.45	0.50	0.57	0.63	0.70	0.77	0.84	0.92	1.01				
		2.00"	U	1768	1132	786	577	442	349	283	234	196	167	144	126	111	98	87	78	71	64	58	53	49				
			D	0.03	0.04	0.06	0.09	0.11	0.14	0.17	0.21	0.25	0.29	0.34	0.39	0.44	0.50	0.56	0.63	0.69	0.77	0.84	0.92	1.00				
		3.00"	U	4761	3047	2116	1555	1190	940	762	630	529	451	389	339	298	264	235	211	190	173	157	144	132				
			D	0.03	0.04	0.06	0.09	0.11	0.14	0.17	0.21	0.25	0.29	0.34	0.39	0.44	0.50	0.56	0.63	0.69	0.77	0.84	0.92	1.00				
	11 GA .1196"	1.50"	U	1097	702	488	358	274	217	176	145	122	104	90	78	69	61	54	49	44	40	36	33	30				
			D	0.03	0.04	0.06	0.09	0.11	0.14	0.18	0.21	0.25	0.30	0.34	0.39	0.45	0.51	0.57	0.63	0.70	0.77	0.85	0.93	1.01				
		2.00"	U	2253	1442	1001	736	563	445	360	298	250	213	184	160	141	125	111	100	90	82	74	68	63				
			D	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.21	0.25	0.29	0.34	0.39	0.44	0.50	0.56	0.63	0.69	0.76	0.84	0.92	1.00				
		3.00"	U	6110	3910	2716	1995	1527	1207	978	808	679	578	499	434	382	338	302	271	244	222	202	185	170				
			D	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.21	0.25	0.29	0.34	0.39	0.44	0.50	0.56	0.63	0.69	0.76	0.84	0.92	1.00				

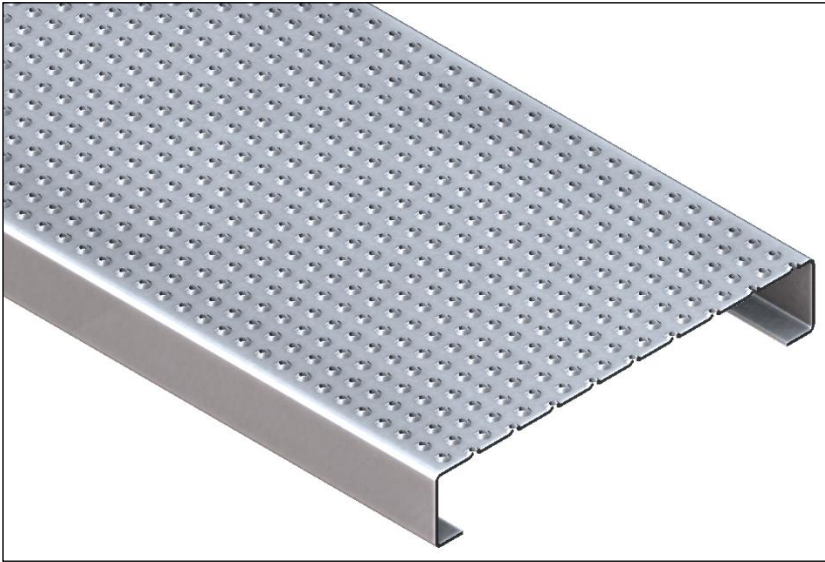
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## 10" WIDTH – 15 DIMPLE



Material		Thickness	Height	Flange	Length
Type	Description	"A"	"B"	"C"	"D"
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")	1-1/2"	1-3/8"	120"
		11 ga (.120")			
GALVANIZED STEEL	ASTM 653 Mill- Galvanized G90	13 ga (.090")	2"	7/8"	144-3/8"
		11 ga (.120")			
ALUMINUM	5052-H32	8 ga (.125")	Custom	Custom	Custom
STAINLESS	304 Stainless Steel	16 ga (.060")			

## 12" WIDTH – 18 DIMPLE



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALV	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM	5052-H32	8 ga (.125")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

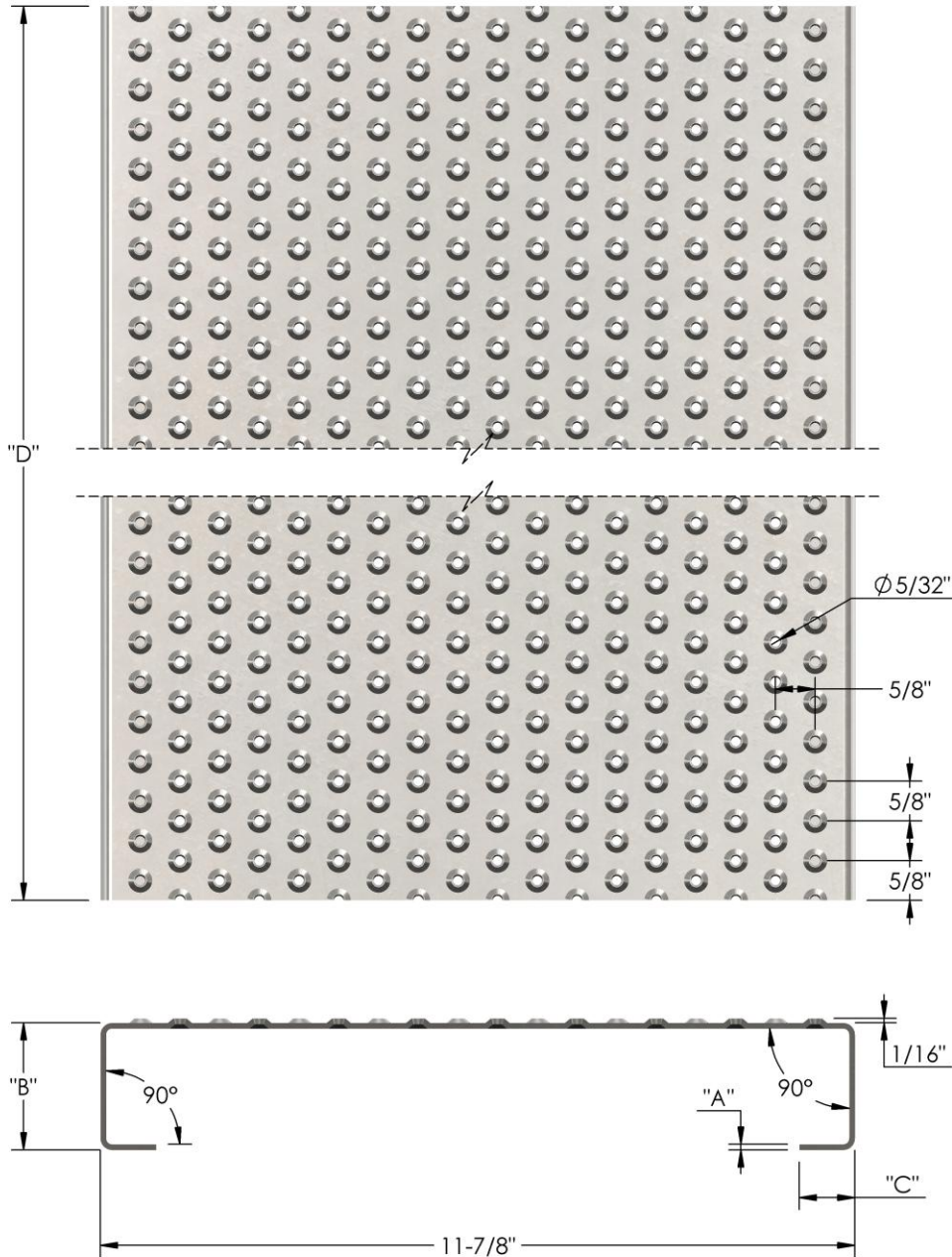
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																							
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'		
ALUMINUM	8 GA .1250"	1.50"	2.33	U	332	213	148	109	83	66	53	44	37	31	27	24	21	18	16	15	13	12	11	10	9			
		D	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.21	0.25	0.29	0.34	0.39	0.44	0.50	0.56	0.62	0.69	0.76	0.84	0.91	1.00					
		2.00"	2.48	U	684	438	304	223	171	135	109	90	76	65	56	49	43	38	34	30	27	25	23	21	19			
		D	0.03	0.04	0.06	0.09	0.11	0.14	0.18	0.21	0.25	0.30	0.34	0.40	0.45	0.51	0.57	0.63	0.70	0.77	0.85	0.93	1.01					
HRPO & GALVANIZED STEEL	13 GA .0897"	1.50"	4.76	U	767	491	341	250	192	152	123	101	85	73	63	55	48	42	38	34	31	28	25	23	21			
		D	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.21	0.25	0.29	0.34	0.39	0.44	0.50	0.56	0.63	0.69	0.76	0.84	0.92	1.00					
		2.00"	5.07	U	1537	984	683	502	384	304	246	203	171	146	125	109	96	85	76	68	61	56	51	46	43			
	D	0.03	0.04	0.06	0.09	0.11	0.14	0.17	0.21	0.25	0.29	0.34	0.39	0.44	0.50	0.56	0.63	0.69	0.77	0.84	0.92	1.00						
	3.00"	5.68	U	4162	2664	1850	1359	1041	822	666	550	462	394	340	296	260	230	206	184	166	151	138	126	116				
	D	0.03	0.04	0.06	0.09	0.11	0.14	0.18	0.21	0.25	0.30	0.34	0.40	0.45	0.51	0.57	0.63	0.70	0.77	0.85	0.93	1.01						
	11 GA .1196"	1.50"	6.27	U	955	611	424	312	239	189	153	126	106	90	78	68	60	53	47	42	38	35	32	29	27			
		D	0.03	0.04	0.06	0.09	0.11	0.14	0.17	0.21	0.25	0.30	0.34	0.39	0.45	0.50	0.57	0.63	0.70	0.77	0.84	0.92	1.01					
		2.00"	6.68	U	1940	1242	862	634	485	383	310	257	216	184	158	138	121	107	96	86	78	70	64	59	54			
D	0.03	0.04	0.06	0.09	0.11	0.14	0.18	0.21	0.25	0.30	0.34	0.39	0.45	0.51	0.57	0.63	0.70	0.77	0.85	0.93	1.01							
3.00"	7.50	U	5336	3415	2371	1742	1334	1054	854	706	593	505	436	379	333	295	263	236	213	194	176	161	148					
D	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.21	0.25	0.29	0.33	0.38	0.44	0.49	0.55	0.62	0.68	0.75	0.83	0.90	0.98							

These load tables are based on physical test results and are provided for reference only. Safe use and installation of grating products involve factors beyond testing conditions. Users should consult a licensed engineer and exercise independent judgment. This technical information is for evaluation by skilled professionals, and any use is at their own discretion and risk. IGP assumes no responsibility or liability for outcomes or damages resulting from improper assessment or use of grating products.



## 12" WIDTH – 18 DIMPLE



Material		Thickness	Height	Flange	Length
Type	Description	"A"	"B"	"C"	"D"
<b>STEEL</b>	Hot Rolled Pickled & Oiled	13 ga (.090")	1-1/2"	1-3/8"	120"
		11 ga (.120")			
<b>GALVANIZED STEEL</b>	ASTM 653 Mill- Galvanized G90	13 ga (.090")	2"	7/8"	144-3/8"
		11 ga (.120")			
<b>ALUMINUM</b>	5052-H32	8 ga (.125")	Custom	Custom	Custom
<b>STAINLESS</b>	304 Stainless Steel	16 ga (.060")			



## Cost-Effective and Low Maintenance

- Manufactured from durable, corrosion-resistant materials for long-term reliability.
- Standard mill-galvanized coating resists rust and extends the lifespan of the grating.
- Available in high-strength aluminum, Type 316-2B stainless steel, and Type 304-2B stainless steel for maximum corrosion protection.
- Unpainted HRP&O steel is an option for installations requiring a customized finish.
- Lightweight yet strong panels help reduce the need for additional structural support, minimizing overall project costs.

## Versatile, Durable, and Safe

- Offered in a variety of standard widths and channel heights to meet diverse application needs.
- Custom sizes and configurations available to address specific strength, durability, weight, and appearance requirements.
- Seamless one-piece construction eliminates welds and rivets, reducing failure points.
- Special forming options can be customized for unique project specifications.
- All surfaces are accessible for easy brush or spray finishing, simplifying the application of protective coatings.
- Can be used as-is or customized with banding, welding, notching, or cutting to fit specific installations.

## Reliable Non-Slip Surface

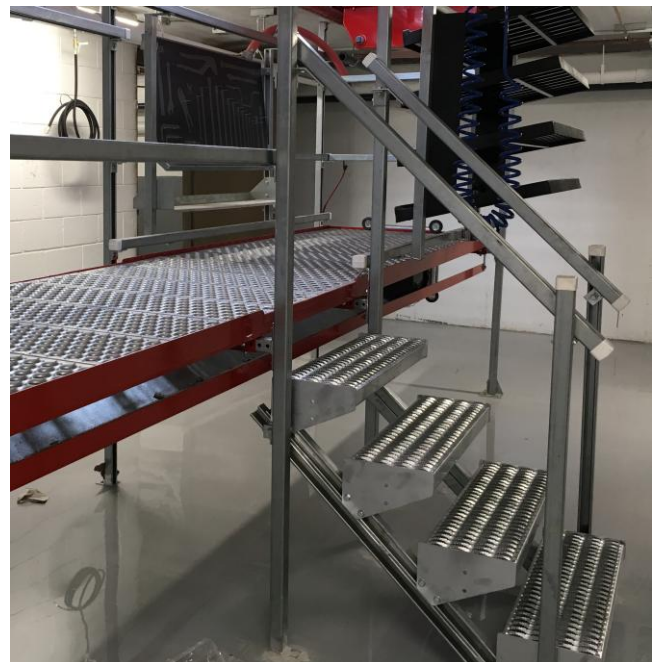
- Provides superior traction in all directions, ideal for indoor and outdoor areas prone to mud, ice, snow, oil, and cleaning agents that could create hazardous conditions.
- 40% open surface area (depending on product size) helps prevent tools and small objects from falling through.
- Self-cleaning design quickly drains fluids, grease, mud, and debris.
- Allows for airflow, ventilation, and light passage, enhancing workplace safety.
- Ice accumulation easily breaks away under normal foot pressure.
- Open structure permits fast and easy cleaning with a brush, liquid wash, or air spray.

## Designed for Strength and Longevity

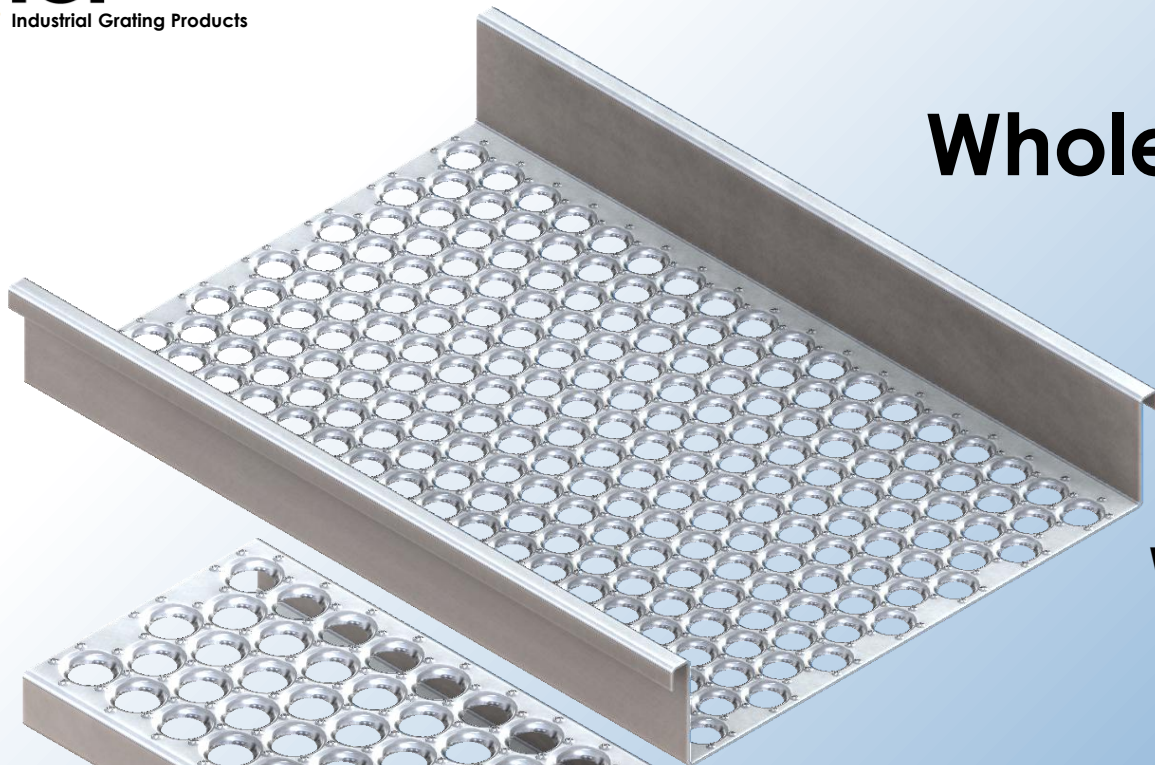
- Built to handle heavy loads with an optimized strength-to-weight ratio for extended durability.
- Engineered with formed struts and integrated side channels, ensuring minimal deflection in both transverse and longitudinal directions.
- No rivets or pressure joints that could loosen or fail over time.
- Constructed for high load-bearing capacity with minimal flex.
- Tough, rugged structure offers long-lasting performance even in demanding environments.

## Effortless Installation

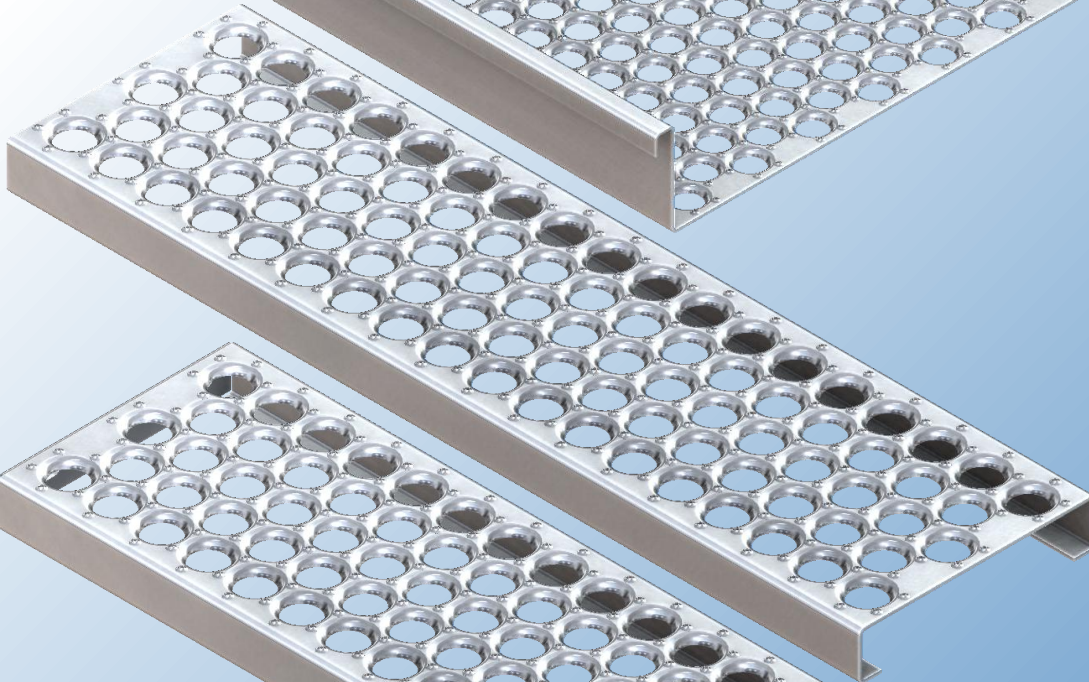
- Lightweight planks are easy to handle, making installation quick and simple.
- Can be lifted and positioned by a single person.
- Most sections can be bolted, clamped, or welded into place with minimal effort.
- Easily cut in the field at nearly any angle or fabricated to fit unique conditions.
- Special attachment systems allow for quick fastening to existing structures, ensuring fast setup and removal when needed.



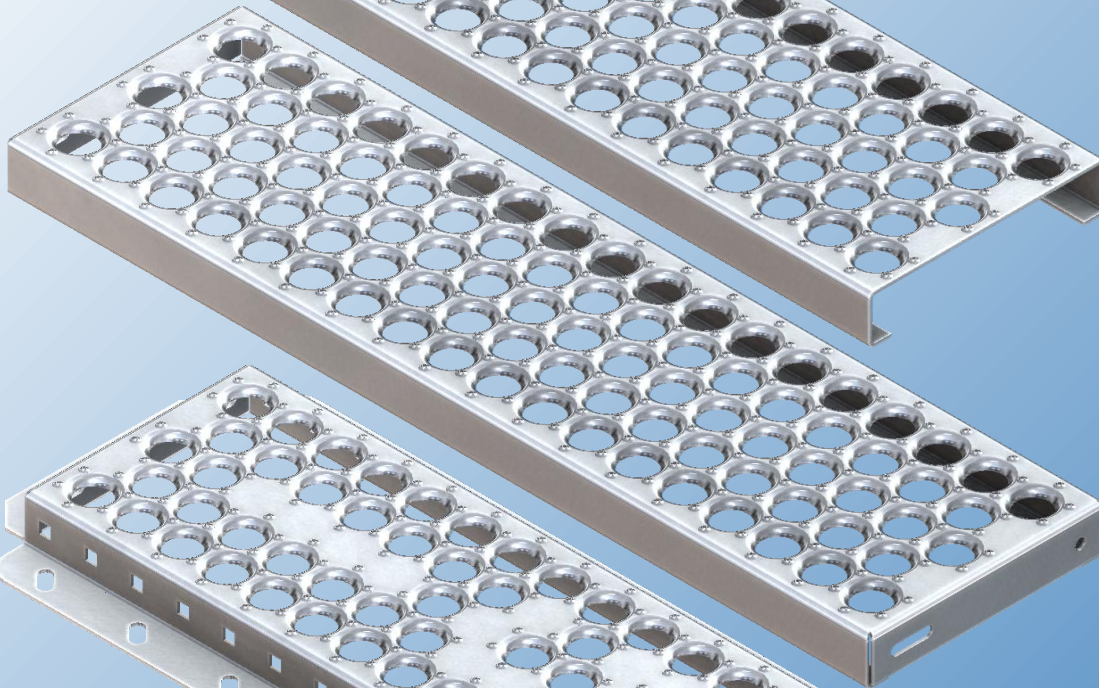
# Whole Grip™



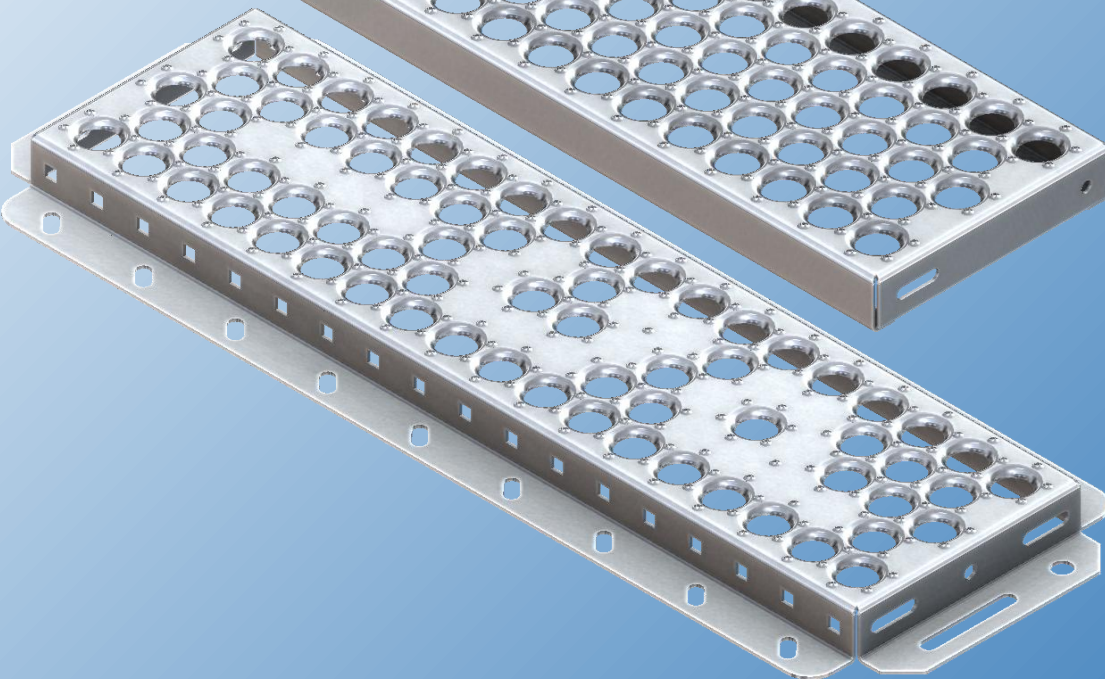
**Walkways**



**Planks**



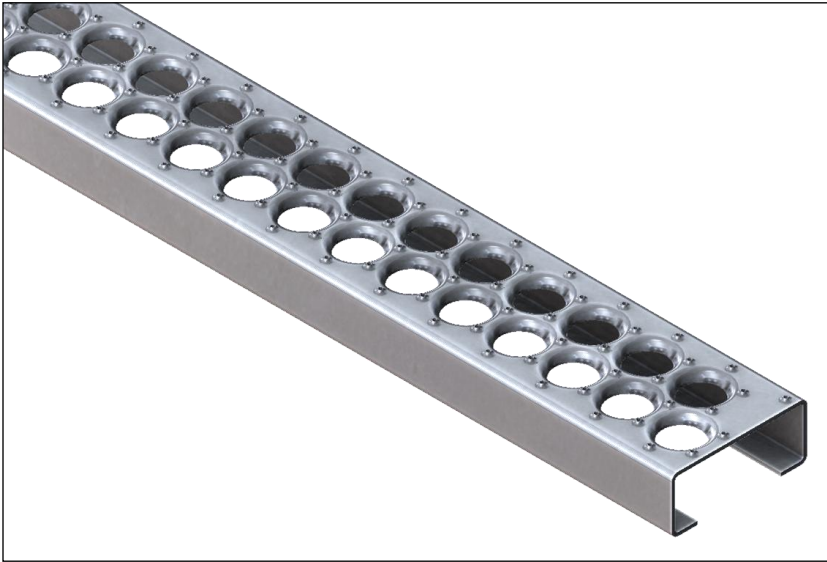
**Stair Treads**



**Customized Grating**

**Safety starts where you step™**

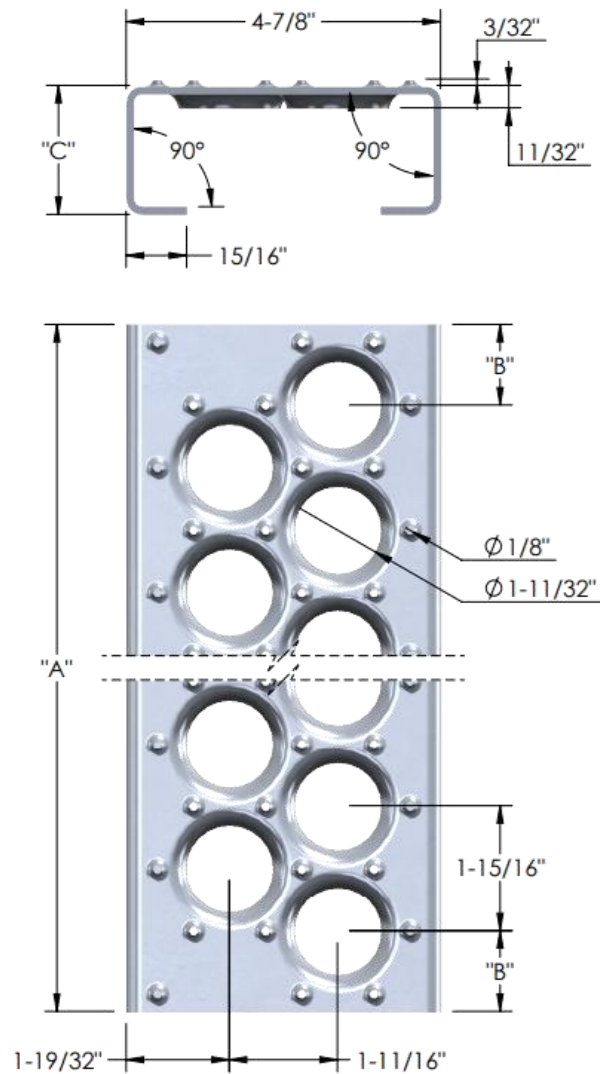
## 5" WIDTH – 2 HOLE



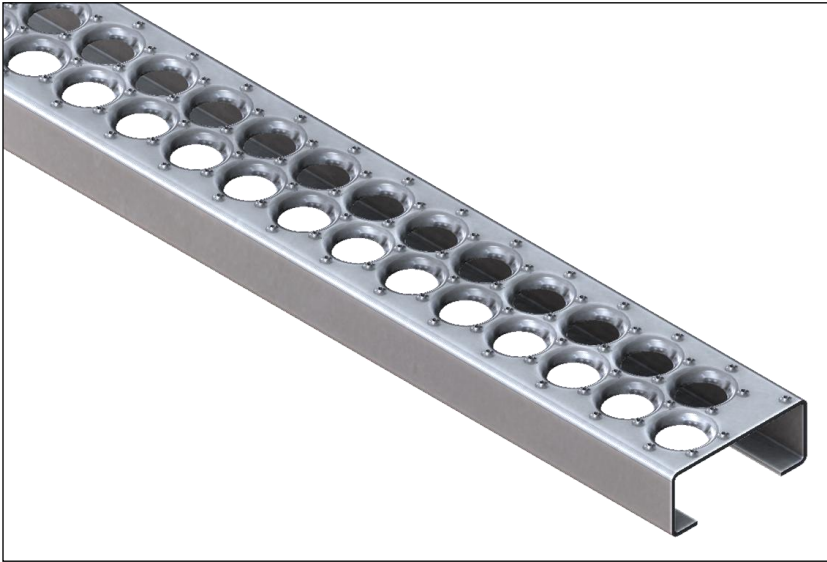
Length Selection "A"		"B"
6'	71-15/16"	2-1/16"
8'	95-15/16"	1-15/32"
10'	119-15/16"	1-27/32"
12'	143-15/16"	1-1/4"
Custom*		Varies

Height Selection "C"
1-1/2"
2"
3"
Custom*

Length "A" determines Hole-to-Edge distance "B".  
\*Available by special order.



## 5" WIDTH – 2 HOLE



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALV	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM	5052-H32	8 ga (.125")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																							
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'		
ALUMINUM	8 GA .1250"	2.00"	1.35	U	3080	1971	1369	1006	770	608	493	407	342	292	251	219	193	171	152	137	123	112	102	93	86			
				D	0.09	0.14	0.20	0.28	0.36	0.46	0.57	0.69	0.82	0.96	1.11	1.27	1.45	1.64	1.83	2.04	2.26	2.50	2.74	3.00	3.26			
				C	1283	1027	856	733	642	570	513	467	428	395	367	342	321	302	285	270	257	244	233	223	214			
				D	0.07	0.11	0.16	0.22	0.29	0.37	0.45	0.55	0.65	0.77	0.89	1.02	1.16	1.31	1.47	1.64	1.81	2.00	2.19	2.40	2.61			
HRPO & GALVANIZED STEEL	13 GA .0897"	1.50"	2.48	U	2153	1378	957	703	538	425	344	285	239	204	176	153	135	119	106	95	86	78	71	65	60			
				D	0.06	0.09	0.13	0.17	0.22	0.28	0.35	0.42	0.50	0.59	0.68	0.78	0.89	1.01	1.13	1.26	1.39	1.53	1.68	1.84	2.00			
				C	897	718	598	513	449	399	359	326	299	276	256	239	224	211	199	189	179	171	163	156	150			
				D	0.04	0.07	0.10	0.14	0.18	0.23	0.28	0.34	0.40	0.47	0.55	0.63	0.71	0.80	0.90	1.00	1.11	1.23	1.35	1.47	1.60			
	2.00"	2.79	U	3233	2069	1437	1056	808	639	517	427	359	306	264	230	202	179	160	143	129	117	107	98	90				
			D	0.04	0.07	0.09	0.13	0.17	0.21	0.26	0.32	0.38	0.44	0.51	0.59	0.67	0.76	0.85	0.94	1.05	1.15	1.26	1.38	1.50				
			C	1347	1078	898	770	674	599	539	490	449	414	385	359	337	317	299	284	269	257	245	234	225				
			D	0.03	0.05	0.08	0.10	0.13	0.17	0.21	0.25	0.30	0.35	0.41	0.47	0.54	0.60	0.68	0.75	0.84	0.92	1.01	1.11	1.20				
STAINLESS STEEL	16 GA .060"	2.00"	1.94	U	3201	2049	1423	1045	800	632	512	423	356	303	261	228	200	177	158	142	128	116	106	97	89			
				D	0.05	0.08	0.12	0.16	0.20	0.26	0.32	0.39	0.46	0.54	0.63	0.72	0.82	0.92	1.04	1.15	1.28	1.41	1.55	1.69	1.84			
				C	1334	1067	889	762	667	593	534	485	445	410	381	356	333	314	296	281	267	254	243	232	222			
				D	0.04	0.06	0.09	0.13	0.16	0.21	0.26	0.31	0.37	0.43	0.50	0.58	0.66	0.74	0.83	0.92	1.02	1.13	1.24	1.35	1.47			

These load tables are based on physical test results and are provided for reference only. Safe use and installation of grating products involve factors beyond testing conditions. Users should consult a licensed engineer and exercise independent judgment. This technical information is for evaluation by skilled professionals, and any use is at their own discretion and risk. IGP assumes no responsibility or liability for outcomes or damages resulting from improper assessment or use of grating products.



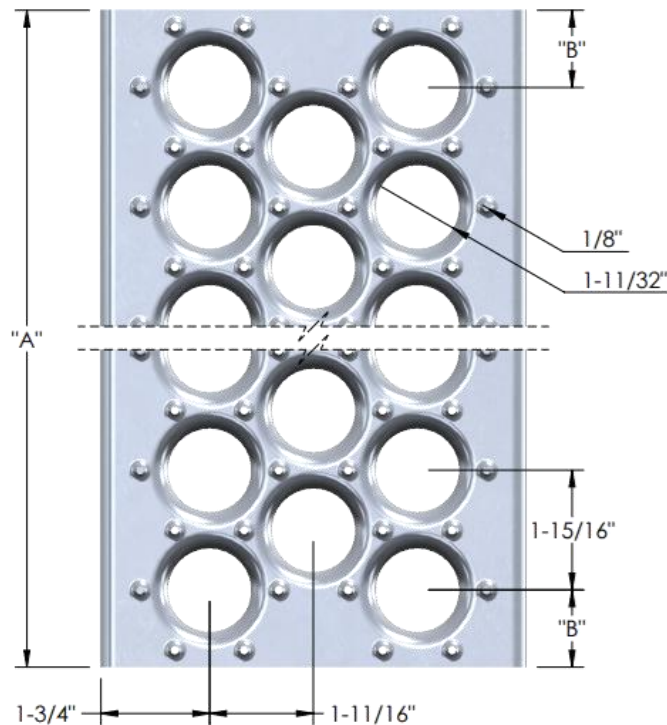
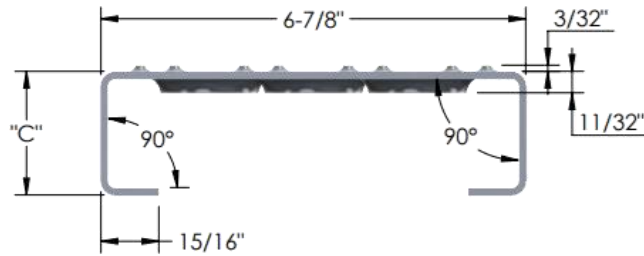
## 7" WIDTH – 3 HOLE



Length Selection "A"		"B"	Height Selection "C"
6'	71-15/16"	2-1/16"	1-1/2"
8'	95-15/16"	1-15/32"	2"
10'	119-15/16"	1-27/32"	3"
12'	143-15/16"	1-1/4"	
Custom*	Varies		Custom*

Length "A" determines Hole-to-Edge distance "B".

\*Available by special order.



## 7" WIDTH – 3 HOLE



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALV	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM	5052-H32	8 ga (.125")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																							
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'		
ALUMINUM	8 GA .1250"	2.00"	1.57	U	2480	1587	1102	810	620	490	397	328	276	235	202	176	155	137	122	110	99	90	82	75	69			
				D	0.08	0.13	0.19	0.25	0.33	0.42	0.51	0.62	0.74	0.87	1.01	1.16	1.32	1.49	1.67	1.86	2.06	2.27	2.49	2.72	2.96			
				C	1447	1157	964	827	723	643	579	526	482	445	413	386	362	340	321	305	289	276	263	252	241			
HRPO & GALVANIZED STEEL	13 GA .0897"	1.50"	2.94	U	1620	1037	720	529	405	320	259	214	180	153	132	115	101	90	80	72	65	59	54	49	45			
				D	0.05	0.09	0.12	0.17	0.22	0.28	0.34	0.41	0.49	0.58	0.67	0.77	0.87	0.99	1.10	1.23	1.36	1.50	1.65	1.80	1.96			
				C	945	756	630	540	473	420	378	344	315	291	270	252	236	222	210	199	189	180	172	164	158			
		2.00"	3.25	U	2376	1521	1056	776	594	469	380	314	264	225	194	169	149	132	117	105	95	86	79	72	66			
				D	0.04	0.06	0.09	0.13	0.16	0.21	0.26	0.31	0.37	0.43	0.50	0.58	0.66	0.74	0.83	0.93	1.03	1.13	1.25	1.36	1.48			
				C	1386	1109	924	792	693	616	554	504	462	426	396	370	347	326	308	292	277	264	252	241	231			
HRPO & GALVANIZED STEEL	11 GA .1196"	1.50"	3.84	U	2114	1353	939	690	528	418	338	279	235	200	173	150	132	117	104	94	85	77	70	64	59			
				D	0.05	0.07	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.49	0.57	0.65	0.74	0.84	0.94	1.04	1.16	1.27	1.40	1.53	1.66			
				C	1233	986	822	705	617	548	493	448	411	379	352	329	308	290	274	260	247	235	224	214	206			
		2.00"	4.25	U	3096	1981	1376	1011	774	612	495	409	344	293	253	220	194	171	153	137	124	112	102	94	86			
				D	0.04	0.06	0.08	0.11	0.15	0.19	0.23	0.28	0.33	0.39	0.45	0.52	0.59	0.67	0.75	0.84	0.93	1.02	1.12	1.23	1.33			
				C	1806	1445	1204	1032	903	803	722	657	602	556	516	482	452	425	401	380	361	344	328	314	301			
		3.00"	5.06	U	5863	3752	2606	1914	1466	1158	938	775	651	555	479	417	366	325	290	260	235	213	194	177	163			
				D	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.21	0.25	0.29	0.34	0.39	0.44	0.49	0.55	0.62	0.68	0.75	0.83	0.91	0.99			
				C	3420	2736	2280	1954	1710	1520	1368	1244	1140	1052	977	912	855	805	760	720	684	651	622	595	570			
STAINLESS STEEL	16 GA .060"	2.00"	2.25	U	2273	1455	1010	742	568	449	364	301	253	215	186	162	142	126	112	101	91	82	75	69	63			
				D	0.04	0.06	0.09	0.13	0.17	0.21	0.26	0.31	0.37	0.44	0.51	0.58	0.66	0.75	0.84	0.94	1.04	1.14	1.25	1.37	1.49			
				C	1326	1061	884	758	663	589	530	482	442	408	379	354	332	312	295	279	265	253	241	231	221			
				D	0.03	0.05	0.07	0.10	0.13	0.17	0.21	0.25	0.30	0.35	0.41	0.47	0.53	0.60	0.67	0.75	0.83	0.91	1.00	1.10	1.19			

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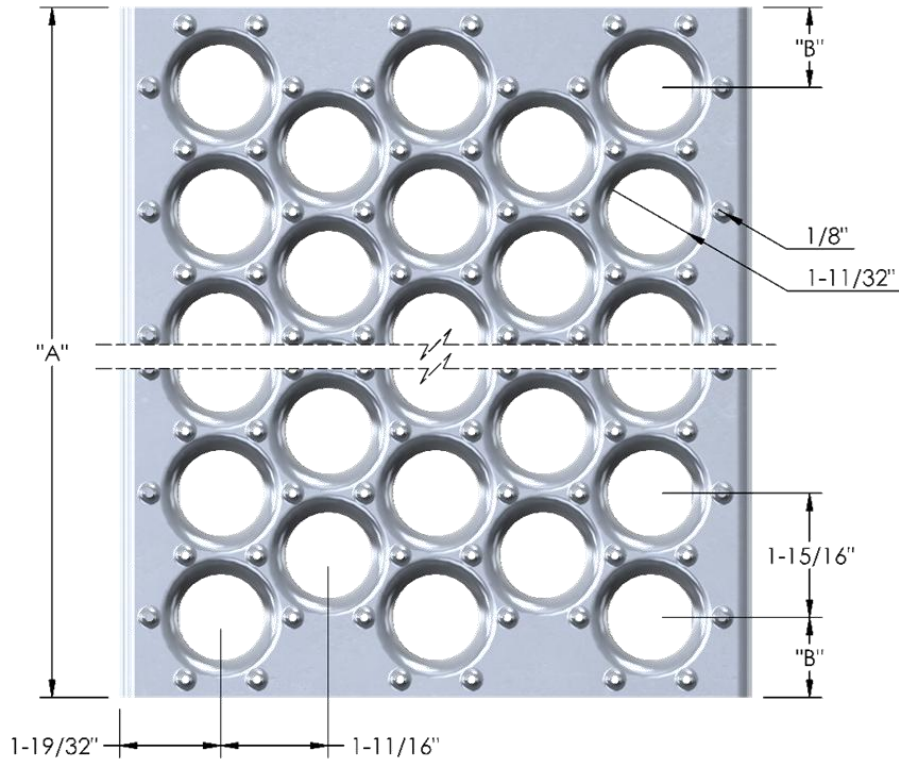
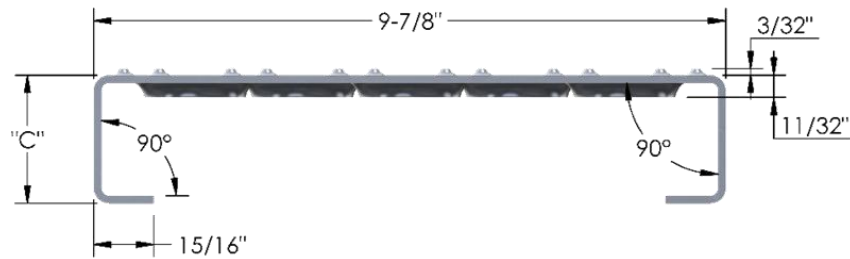


## 7" WIDTH – 3 HOLE



Length Selection "A"		"B"	Height Selection "C"
6'	71-15/16"	2-1/16"	1-1/2"
8'	95-15/16"	1-15/32"	2"
10'	119-15/16"	1-27/32"	3"
12'	143-15/16"	1-1/4"	
Custom*	Varies		Custom*

Length "A" determines Hole-to-Edge distance "B".  
\*Available by special order.



## 10" WIDTH – 5 HOLE



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALV	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM	5052-H32	8 ga (.125")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																							
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'		
ALUMINUM	8 GA .1250"	2.00"	1.88	U	1686	1079	749	550	421	333	270	223	187	160	138	120	105	93	83	75	67	61	56	51	47			
				D	0.08	0.13	0.19	0.25	0.33	0.42	0.52	0.62	0.74	0.87	1.01	1.16	1.32	1.49	1.67	1.86	2.06	2.27	2.50	2.73	2.97			
				C	1405	1124	936	803	702	624	562	511	468	432	401	375	351	331	312	296	281	268	255	244	234			
				D	0.07	0.10	0.15	0.20	0.26	0.33	0.41	0.50	0.59	0.70	0.81	0.93	1.06	1.19	1.34	1.49	1.65	1.82	2.00	2.18	2.38			
HRPO & GALVANIZED STEEL	13 GA .0897"	1.50"	3.55	U	1188	760	528	388	297	235	190	157	132	112	97	84	74	66	59	53	48	43	39	36	33			
				D	0.05	0.08	0.12	0.16	0.21	0.27	0.33	0.40	0.48	0.56	0.65	0.75	0.85	0.97	1.08	1.21	1.34	1.47	1.62	1.77	1.92			
				C	990	792	660	566	495	440	396	360	330	305	283	264	248	233	220	208	198	189	180	172	165			
				D	0.04	0.07	0.10	0.13	0.17	0.22	0.27	0.32	0.38	0.45	0.52	0.60	0.68	0.77	0.87	0.96	1.07	1.18	1.29	1.41	1.54			
	2.00"	3.85	U	1728	1106	768	564	432	341	276	228	192	164	141	123	108	96	85	77	69	63	57	52	48				
			D	0.04	0.06	0.09	0.12	0.16	0.20	0.24	0.29	0.35	0.41	0.48	0.55	0.62	0.70	0.79	0.88	0.97	1.07	1.18	1.28	1.40				
			C	1440	1152	960	823	720	640	576	524	480	443	411	384	360	339	320	303	288	274	262	250	240				
			D	0.03	0.05	0.07	0.10	0.12	0.16	0.19	0.24	0.28	0.33	0.38	0.44	0.50	0.56	0.63	0.70	0.78	0.86	0.94	1.03	1.12				
HRPO & GALVANIZED STEEL	11 GA .1196"	1.50"	4.65	U	1462	935	650	477	365	289	234	193	162	138	119	104	91	81	72	65	58	53	48	44	41			
				D	0.05	0.07	0.10	0.14	0.18	0.23	0.29	0.35	0.41	0.49	0.56	0.65	0.74	0.83	0.93	1.04	1.15	1.27	1.39	1.52	1.65			
				C	1218	974	812	696	609	541	487	443	406	375	348	325	305	287	271	256	244	232	221	212	203			
				D	0.04	0.06	0.08	0.11	0.15	0.19	0.23	0.28	0.33	0.39	0.45	0.52	0.59	0.66	0.74	0.83	0.92	1.01	1.11	1.22	1.32			
	2.00"	5.06	U	2315	1481	1029	756	579	457	370	306	257	219	189	165	145	128	114	103	93	84	77	70	64				
			D	0.04	0.06	0.09	0.12	0.15	0.19	0.24	0.29	0.34	0.40	0.46	0.53	0.61	0.69	0.77	0.86	0.95	1.05	1.15	1.25	1.37				
			C	1929	1543	1286	1102	965	857	772	701	643	594	551	514	482	454	429	406	386	367	351	335	322				
			D	0.03	0.05	0.07	0.09	0.12	0.15	0.19	0.23	0.27	0.32	0.37	0.43	0.49	0.55	0.61	0.68	0.76	0.84	0.92	1.00	1.09				
	3.00"	5.87	U	4360	2790	1938	1424	1090	861	698	576	484	413	356	310	272	241	215	193	174	158	144	132	121				
			D	0.03	0.04	0.06	0.09	0.11	0.14	0.17	0.21	0.25	0.30	0.34	0.39	0.45	0.51	0.57	0.63	0.70	0.77	0.85	0.93	1.01				
			C	3633	2906	2422	2076	1817	1615	1453	1321	1211	1118	1038	969	908	855	807	765	727	692	661	632	606				
			D	0.02	0.03	0.05	0.07	0.09	0.11	0.14	0.17	0.20	0.24	0.27	0.31	0.36	0.40	0.45	0.51	0.56	0.62	0.68	0.74	0.81				
STAINLESS STEEL	16 GA .060"	2.00"	2.67	U	1576	1008	700	514	394	311	252	208	175	149	129	112	98	87	78	70	63	57	52	48	44			
				D	0.04	0.06	0.09	0.13	0.17	0.21	0.26	0.31	0.37	0.44	0.51	0.58	0.66	0.75	0.84	0.94	1.04	1.14	1.25	1.37	1.49			
				C	1313	1050	875	750	657	584	525	477	438	404	375	350	328	309	292	276	263	250	239	228	219			
				D	0.03	0.05	0.07	0.10	0.13	0.17	0.21	0.25	0.30	0.35	0.41	0.47	0.53	0.60	0.67	0.75	0.83	0.91	1.00	1.10	1.19			

These load tables are based on physical test results and are provided for reference only. Safe use and installation of grating products involve factors beyond testing conditions. Users should consult a licensed engineer and exercise independent judgment. This technical information is for evaluation by skilled professionals, and any use is at their own discretion and risk. IGP assumes no responsibility or liability for outcomes or damages resulting from improper assessment or use of grating products.

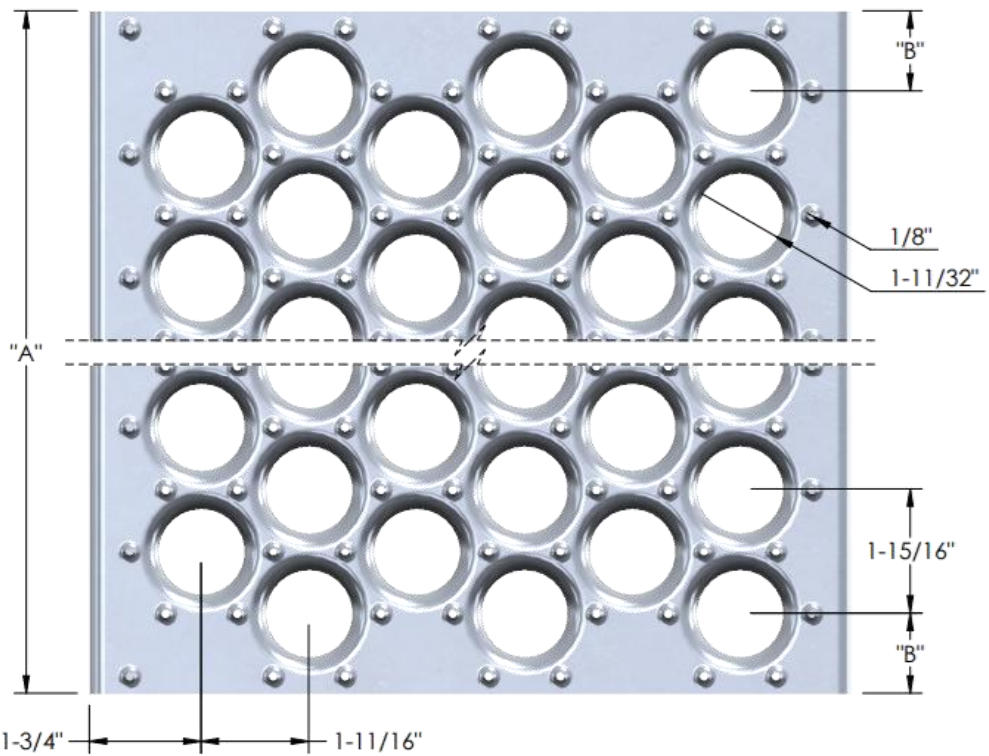
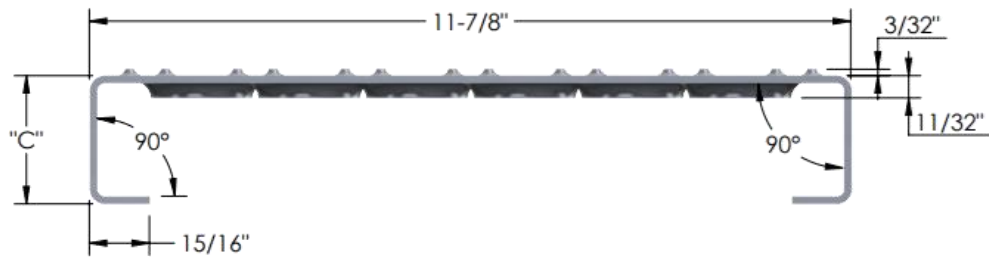


## 12" WIDTH – 6 HOLE



Length Selection "A"		"B"	Height Selection "C"
6'	71-15/16"	2-1/16"	1-1/2"
8'	95-15/16"	1-15/32"	2"
10'	119-15/16"	1-27/32"	3"
12'	143-15/16"	1-1/4"	
Custom*	Varies		Custom*

Length "A" determines Hole-to-Edge distance "B".  
\*Available by special order.



## 12" WIDTH – 6 HOLE



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALV	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM	5052-H32	8 ga (.125")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

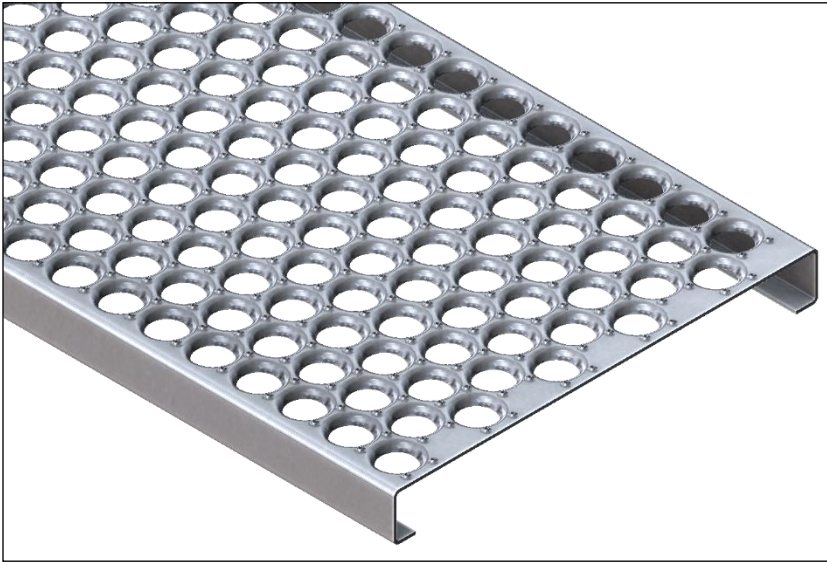
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																							
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'		
ALUMINUM	8 GA .1250"	2.00"	2.10	U	1533	981	681	500	383	303	245	203	170	145	125	109	96	85	76	68	61	56	51	46	43			
				D	0.08	0.12	0.17	0.23	0.31	0.39	0.48	0.58	0.69	0.81	0.94	1.08	1.22	1.38	1.55	1.73	1.91	2.11	2.31	2.53	2.75			
				C	1517	1213	1011	867	758	674	607	552	506	467	433	404	379	357	337	319	303	289	276	264	253			
HRPO & GALVANIZED STEEL	13 GA .0897"	1.50"	4.01	U	1161	743	516	379	290	229	186	154	129	110	95	83	73	64	57	51	46	42	38	35	32			
				D	0.04	0.07	0.10	0.13	0.18	0.22	0.27	0.33	0.39	0.46	0.54	0.62	0.70	0.79	0.89	0.99	1.10	1.21	1.33	1.45	1.58			
				C	1149	919	766	657	575	511	460	418	383	354	328	306	287	270	255	242	230	219	209	200	192			
	2.00"	4.31	U	1731	1108	769	565	433	342	277	229	192	164	141	123	108	96	85	77	69	63	57	52	48				
			D	0.03	0.05	0.08	0.11	0.14	0.18	0.22	0.26	0.31	0.37	0.43	0.49	0.56	0.63	0.70	0.79	0.87	0.96	1.05	1.15	1.25				
			C	1713	1370	1142	979	857	761	685	623	571	527	489	457	428	403	381	361	343	326	311	298	286				
HRPO & GALVANIZED STEEL	11 GA .1196"	1.50"	5.26	U	1276	817	567	417	319	252	204	169	142	121	104	91	80	71	63	57	51	46	42	39	35			
				D	0.04	0.06	0.09	0.13	0.17	0.21	0.26	0.31	0.37	0.44	0.51	0.58	0.66	0.75	0.84	0.93	1.03	1.14	1.25	1.36	1.49			
				C	1263	1010	842	722	632	561	505	459	421	389	361	337	316	297	281	266	253	241	230	220	211			
	2.00"	5.67	U	2089	1337	928	682	522	413	334	276	232	198	171	149	131	116	103	93	84	76	69	63	58				
			D	0.04	0.06	0.08	0.11	0.14	0.18	0.22	0.27	0.32	0.37	0.43	0.50	0.56	0.64	0.71	0.80	0.88	0.97	1.07	1.17	1.27				
			C	2067	1654	1378	1181	1034	919	827	752	689	636	591	551	517	486	459	435	413	394	376	359	345				
	3.00"	6.48	U	4014	2569	1784	1311	1003	793	642	531	446	380	328	285	251	222	198	178	161	146	133	121	111				
			D	0.03	0.04	0.06	0.08	0.10	0.13	0.16	0.19	0.23	0.27	0.31	0.36	0.41	0.46	0.52	0.58	0.64	0.70	0.77	0.84	0.92				
			C	3972	3178	2648	2270	1986	1765	1589	1444	1324	1222	1135	1059	993	935	883	836	794	757	722	691	662				
STAINLESS STEEL	16 GA .060"	2.00"	2.98	U	1340	858	596	438	335	265	214	177	149	127	109	95	84	74	66	59	54	49	44	41	37			
				D	0.04	0.07	0.10	0.14	0.18	0.22	0.28	0.33	0.40	0.47	0.54	0.62	0.71	0.80	0.90	1.00	1.11	1.22	1.34	1.46	1.59			
				C	1326	1061	884	758	663	589	530	482	442	408	379	354	332	312	295	279	265	253	241	231	221			

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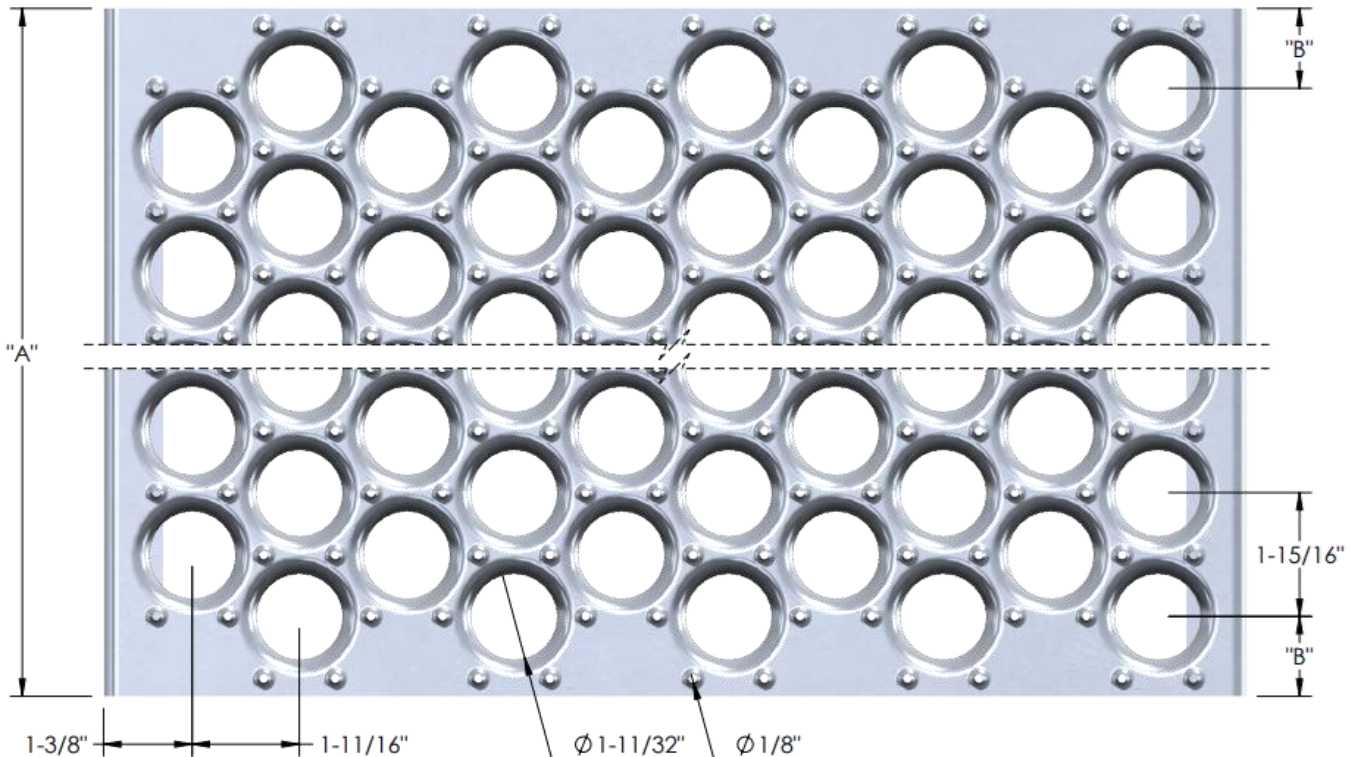
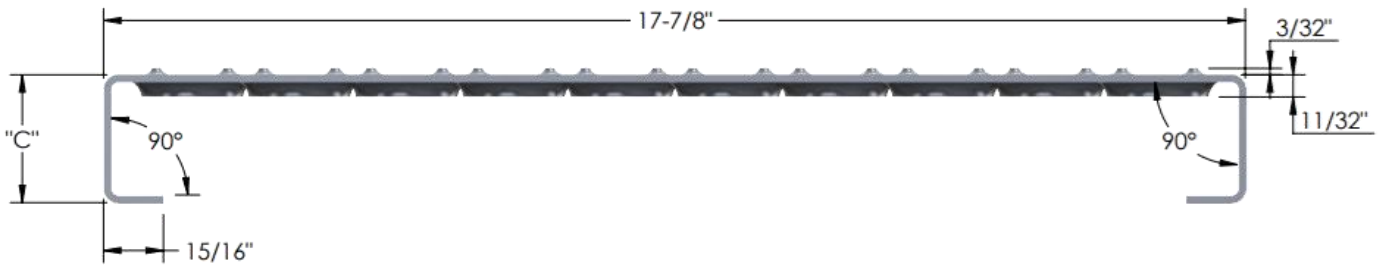


## 18" WIDTH – 10 HOLE

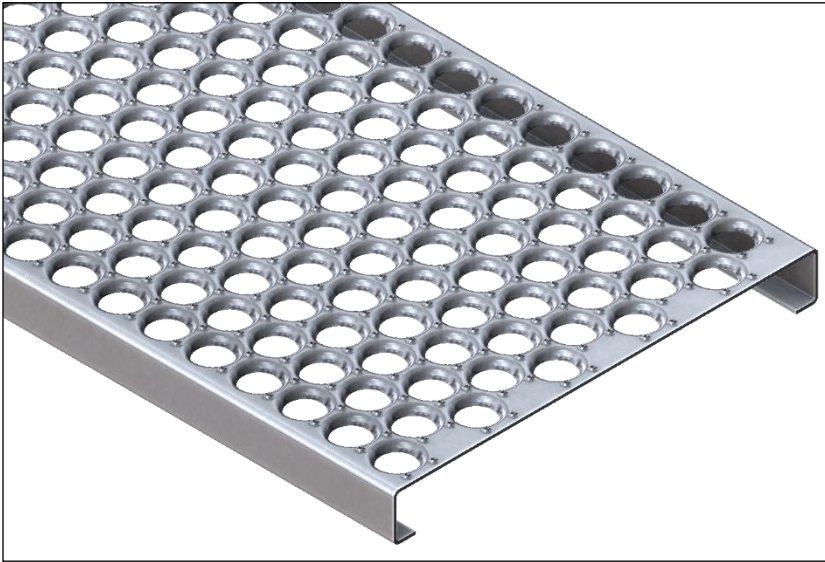


Length Selection "A"		"B"	Height Selection "C"
6'	71-15/16"	2-1/16"	1-1/2"
8'	95-15/16"	1-15/32"	2"
10'	119-15/16"	1-27/32"	3"
12'	143-15/16"	1-1/4"	
Custom*	Varies		Custom*

Length "A" determines Hole-to-Edge distance "B".  
\*Available by special order.



## 18" WIDTH – 10 HOLE



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALV	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM	5052-H32	8 ga (.125")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

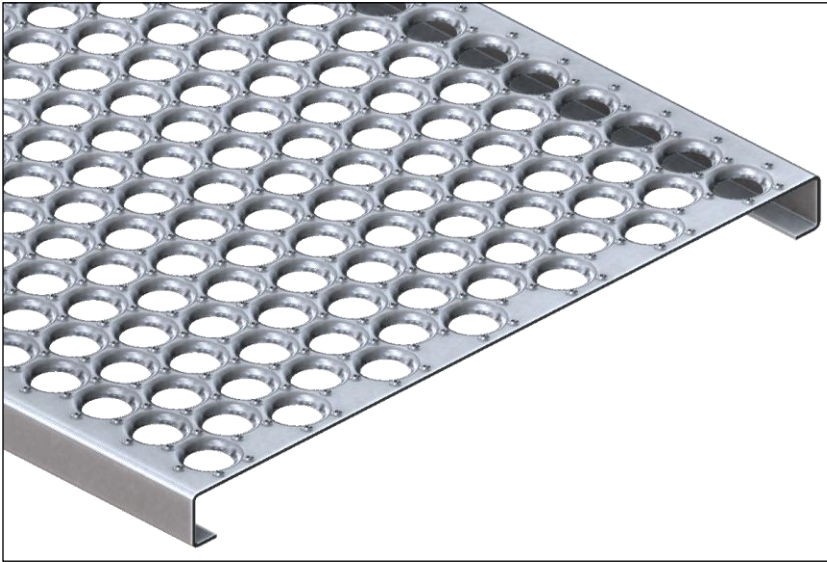
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																							
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'		
ALUMINUM	8 GA .1250"	2.00"	2.71	U	1148	735	510	375	287	227	184	152	128	109	94	82	72	64	57	51	46	42	38	35	32			
				D	0.07	0.11	0.16	0.22	0.28	0.36	0.44	0.54	0.64	0.75	0.87	1.00	1.14	1.28	1.44	1.60	1.78	1.96	2.15	2.35	2.56			
				C	1710	1368	1140	977	855	760	684	622	570	526	489	456	428	402	380	360	342	326	311	297	285			
				D	0.06	0.09	0.13	0.17	0.23	0.29	0.36	0.43	0.51	0.60	0.70	0.80	0.91	1.03	1.15	1.28	1.42	1.57	1.72	1.88	2.05			
HRPO & GALVANIZED STEEL	13 GA .0897"	1.50"	5.22	U	812	519	361	265	203	160	130	107	90	77	66	58	51	45	40	36	32	29	27	25	23			
				D	0.04	0.07	0.10	0.13	0.18	0.22	0.27	0.33	0.39	0.46	0.54	0.62	0.70	0.79	0.89	0.99	1.09	1.21	1.32	1.45	1.58			
				C	1209	967	806	691	605	537	484	440	403	372	345	322	302	284	269	255	242	230	220	210	202			
				D	0.04	0.05	0.08	0.11	0.14	0.18	0.22	0.26	0.32	0.37	0.43	0.49	0.56	0.63	0.71	0.79	0.88	0.96	1.06	1.16	1.26			
	2.00"	5.53	U	1140	730	507	372	285	225	182	151	127	108	93	81	71	63	56	51	46	41	38	34	32				
			D	0.03	0.05	0.08	0.10	0.13	0.17	0.21	0.25	0.30	0.35	0.41	0.47	0.54	0.60	0.68	0.75	0.84	0.92	1.01	1.11	1.20				
			C	1698	1358	1132	970	849	755	679	617	566	522	485	453	425	400	377	357	340	323	309	295	283				
			D	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.20	0.24	0.28	0.33	0.38	0.43	0.48	0.54	0.60	0.67	0.74	0.81	0.88	0.96				
HRPO & GALVANIZED STEEL	11 GA .1196"	1.50"	6.89	U	862	552	383	281	215	170	138	114	96	82	70	61	54	48	43	38	34	31	28	26	24			
				D	0.04	0.06	0.09	0.12	0.15	0.19	0.24	0.29	0.34	0.40	0.46	0.53	0.61	0.69	0.77	0.86	0.95	1.05	1.15	1.25	1.37			
				C	1284	1027	856	734	642	571	514	467	428	395	367	342	321	302	285	270	257	245	233	223	214			
		D	0.03	0.05	0.07	0.09	0.12	0.15	0.19	0.23	0.27	0.32	0.37	0.43	0.49	0.55	0.61	0.69	0.76	0.84	0.92	1.00	1.09					
		2.00"	7.29	U	1343	860	597	439	336	265	215	178	149	127	110	96	84	74	66	60	54	49	44	41	37			
				D	0.03	0.05	0.07	0.10	0.12	0.16	0.19	0.23	0.28	0.33	0.38	0.44	0.50	0.56	0.63	0.70	0.78	0.86	0.94	1.03	1.12			
	C			2001	1601	1334	1143	1001	889	800	728	667	616	572	534	500	471	445	421	400	381	364	348	334				
	D	0.02	0.04	0.06	0.08	0.10	0.13	0.16	0.19	0.22	0.26	0.30	0.35	0.40	0.45	0.50	0.56	0.62	0.68	0.75	0.82	0.89						
	3.00"	8.11	U	2773	1775	1233	906	693	548	444	367	308	263	226	197	173	154	137	123	111	101	92	84	77				
			D	0.02	0.03	0.05	0.07	0.09	0.11	0.14	0.17	0.20	0.24	0.27	0.31	0.36	0.40	0.45	0.50	0.56	0.61	0.67	0.74	0.80				
			C	4131	3305	2754	2361	2066	1836	1652	1502	1377	1271	1180	1102	1033	972	918	870	826	787	751	718	689				
	D	0.02	0.03	0.04	0.05	0.07	0.09	0.11	0.13	0.16	0.19	0.22	0.25	0.29	0.32	0.36	0.40	0.45	0.49	0.54	0.59	0.64						

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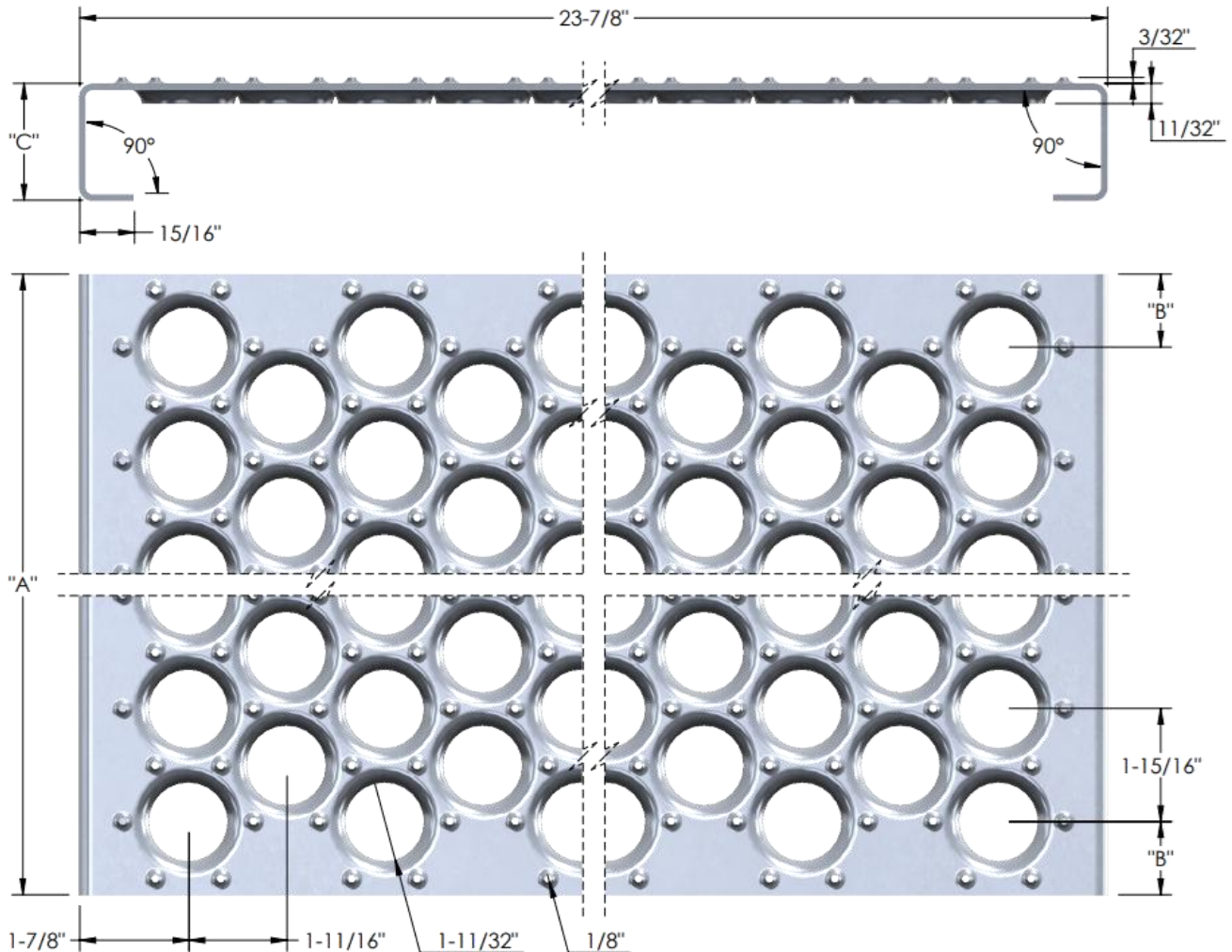


## 24" WIDTH – 13 HOLE

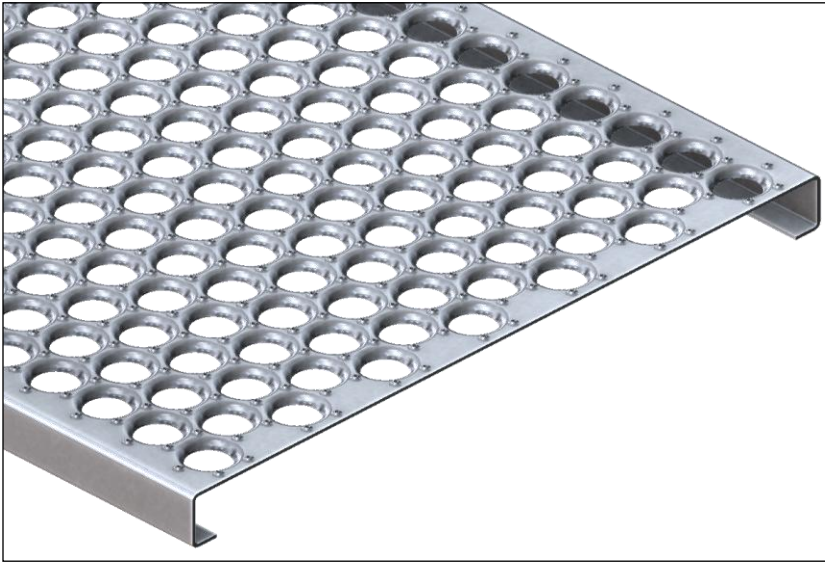


Length Selection "A"		"B"	Height Selection "C"
6'	71-15/16"	2-1/16"	1-1/2"
8'	95-15/16"	1-15/32"	2"
10'	119-15/16"	1-27/32"	3"
12'	143-15/16"	1-1/4"	
Custom*	Varies		Custom*

Length "A" determines Hole-to-Edge distance "B".  
\*Available by special order.



## 24" WIDTH – 13 HOLE



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALV	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM	5052-H32	8 ga (.125")
STAINLESS	304 Stainless Steel	16 ga (.060")

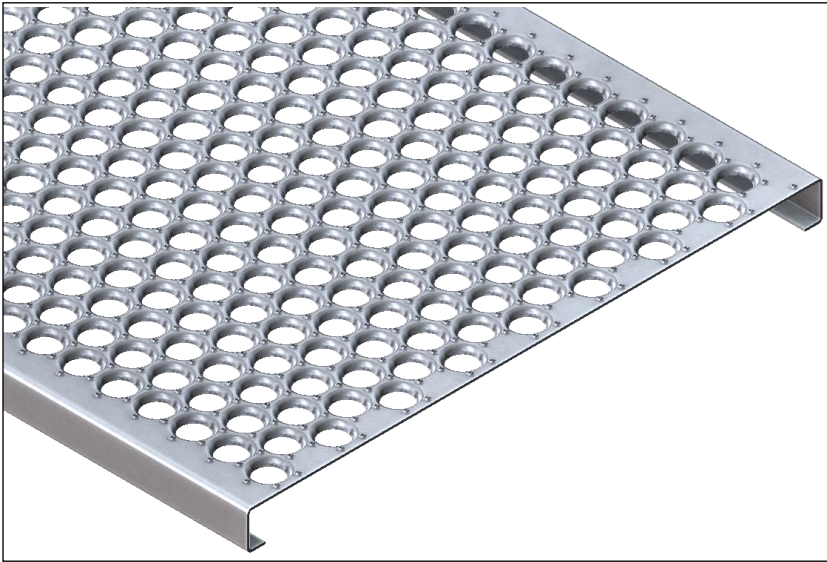
Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																							
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'		
HRPO & GALVANIZED STEEL	11 GA .1196"	2.00"	9.11	U	1066	682	474	348	267	211	171	141	118	101	87	76	67	59	53	47	43	39	35	32	30			
				D	0.03	0.05	0.07	0.09	0.12	0.16	0.19	0.23	0.28	0.33	0.38	0.44	0.50	0.56	0.63	0.70	0.77	0.85	0.94	1.02	1.12			
				C	2121	1697	1414	1212	1061	943	848	771	707	653	606	566	530	499	471	447	424	404	386	369	354			
		3.00"	9.93	U	1933	1237	859	631	483	382	309	256	215	183	158	137	121	107	95	86	77	70	64	58	54			
				D	0.02	0.03	0.04	0.06	0.07	0.09	0.11	0.14	0.17	0.19	0.22	0.26	0.29	0.33	0.37	0.41	0.46	0.51	0.56	0.61	0.66			
				C	3846	3077	2564	2198	1923	1709	1538	1399	1282	1183	1099	1026	962	905	855	810	769	733	699	669	641			
				D	0.01	0.02	0.03	0.04	0.06	0.07	0.09	0.11	0.13	0.16	0.18	0.21	0.24	0.27	0.30	0.33	0.37	0.40	0.44	0.49	0.53			

These load tables are based on physical test results and are provided for reference only. Safe use and installation of grating products involve factors beyond testing conditions. Users should consult a licensed engineer and exercise independent judgment. This technical information is for evaluation by skilled professionals, and any use is at their own discretion and risk. IGP assumes no responsibility or liability for outcomes or damages resulting from improper assessment or use of grating products.

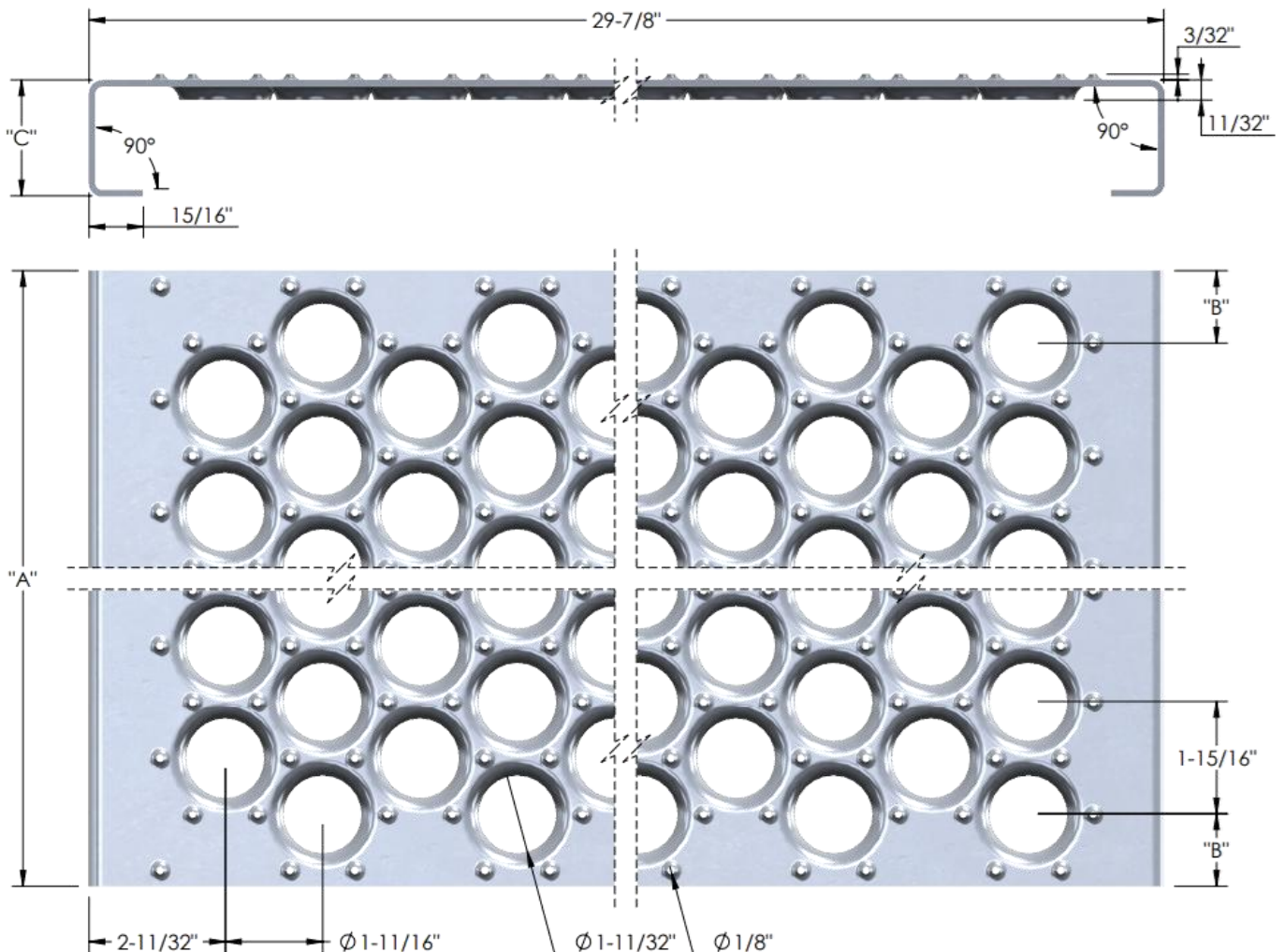


## 30" WIDTH – 16 HOLE

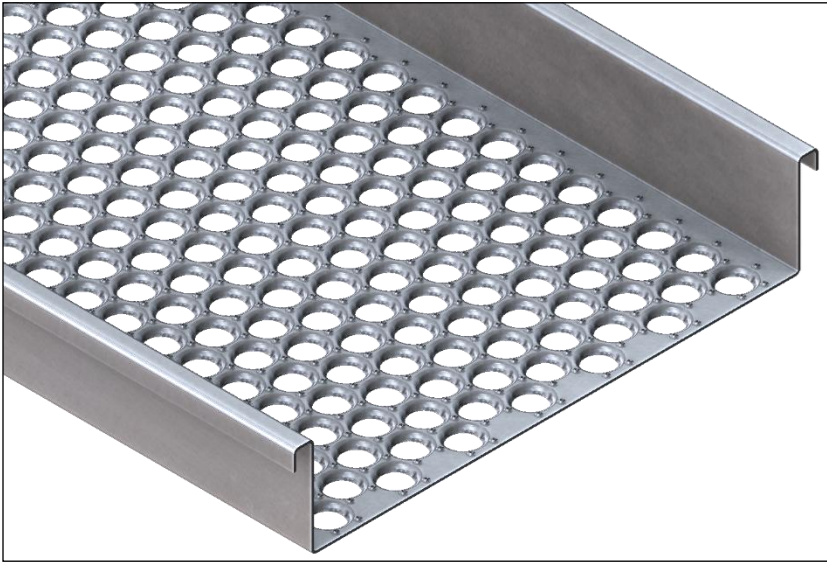


Length Selection "A"		"B"	Height Selection "C"
6'	71-15/16"	2-1/16"	1-1/2"
8'	95-15/16"	1-15/32"	2"
10'	119-15/16"	1-27/32"	3"
12'	143-15/16"	1-1/4"	
Custom*	Varies		Custom*

Length "A" determines Hole-to-Edge distance "B".  
\*Available by special order.

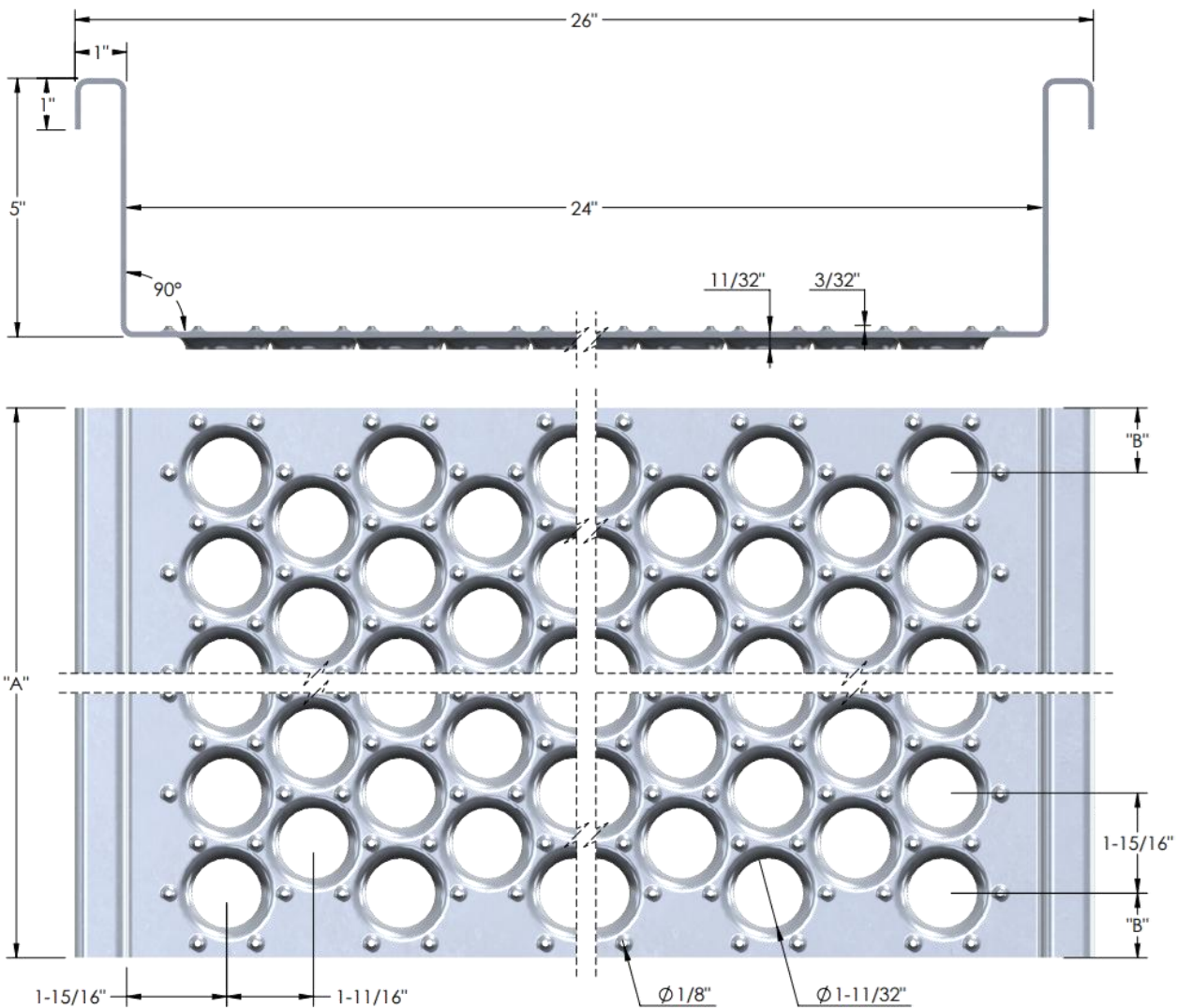


## 24" WIDTH – 13 HOLE

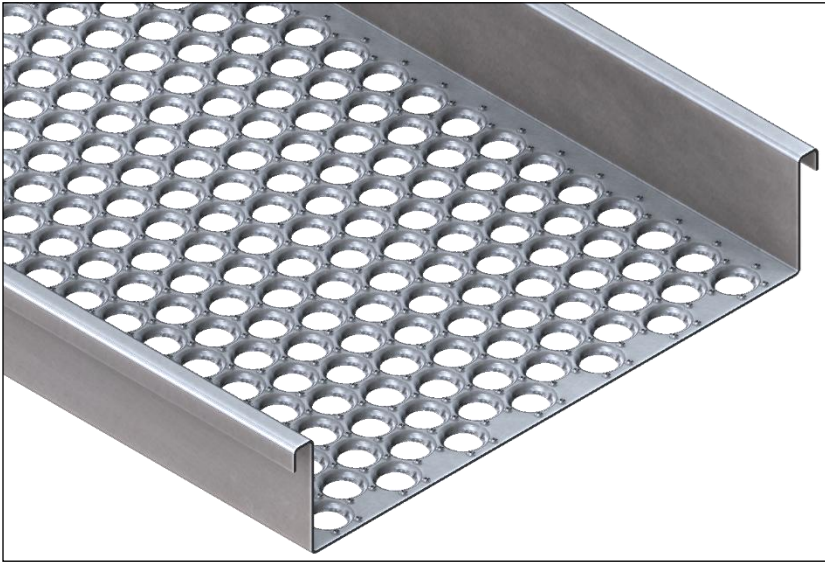


Length Selection		
"A"	"B"	
6'	71-15/16"	2-1/16"
8'	95-15/16"	1-15/32"
10'	119-15/16"	1-27/32"
12'	143-15/16"	1-1/4"
Custom*	Varies	

Length "A" determines Hole-to-Edge distance "B".  
\* Available by special order.



## 24" WIDTH – 13 HOLE



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALV	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM	5052-H32	8 ga (.125")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																				
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"
HRPO & GALVANIZED STEEL	11 GA .1196"	5.00"	12.41	U	4792	3067	2130	1565	1198	947	767	634	532	454	391	341	299	265	237	212	192	174	158	145	133
				D	0.01	0.02	0.03	0.04	0.05	0.07	0.08	0.10	0.12	0.14	0.16	0.18	0.21	0.24	0.27	0.30	0.33	0.36	0.40	0.43	0.47
				C	9534	7627	6356	5448	4767	4237	3814	3467	3178	2934	2724	2542	2384	2243	2119	2007	1907	1816	1733	1658	1589
				D	0.01	0.02	0.02	0.03	0.04	0.05	0.07	0.08	0.09	0.11	0.13	0.15	0.17	0.19	0.21	0.24	0.26	0.29	0.32	0.35	0.38

These load tables are based on physical test results and are provided for reference only. Safe use and installation of grating products involve factors beyond testing conditions. Users should consult a licensed engineer and exercise independent judgment. This technical information is for evaluation by skilled professionals, and any use is at their own discretion and risk. IGP assumes no responsibility or liability for outcomes or damages resulting from improper assessment or use of grating products.





## Cost-Effective Installation

- Gater Grip safety grating is designed for affordability, not only due to its low material and assembly costs but also because of its durable, corrosion-resistant composition, which extends its lifespan.
- Standard mill-galvanized coating enhances corrosion resistance, ensuring longevity.
- Aluminum and stainless steel options (304 and 316L) offer superior protection against rust and environmental wear.
- Black steel is available for projects requiring hot-dip galvanization after fabrication.
- Lightweight yet exceptionally strong panels allow for reduced structural steel requirements.

## Flexible Sizing & Customization

- Offered in a range of standard widths and channel heights, with additional customization options available.
- Numerous non-standard configurations and sizes can be produced.
- A seamless, one-piece construction eliminates welds or rivets that could weaken over time, reducing the need for in-house modifications.
- Custom forming and shaping can be tailored for unique project specifications.

## Enhanced Safety with Serrated Surface

- Provides multi-directional traction for secure footing.
- Non-slip surface remains effective in both indoor and outdoor environments, even in the presence of mud, snow, ice, oil, or cleaning agents.
- Small opening design helps prevent tools and other objects from falling through, reducing workplace hazards.



## Efficient Drainage & Easy Maintenance

- Open structure quickly drains liquids, debris, grease, and dirt.
- Ice accumulation is easily broken under normal foot pressure.
- The design allows easy access for cleaning with brushes, liquid solutions, or air spray, reducing maintenance efforts.

## Strong Load Capacity & Long-Term Reliability

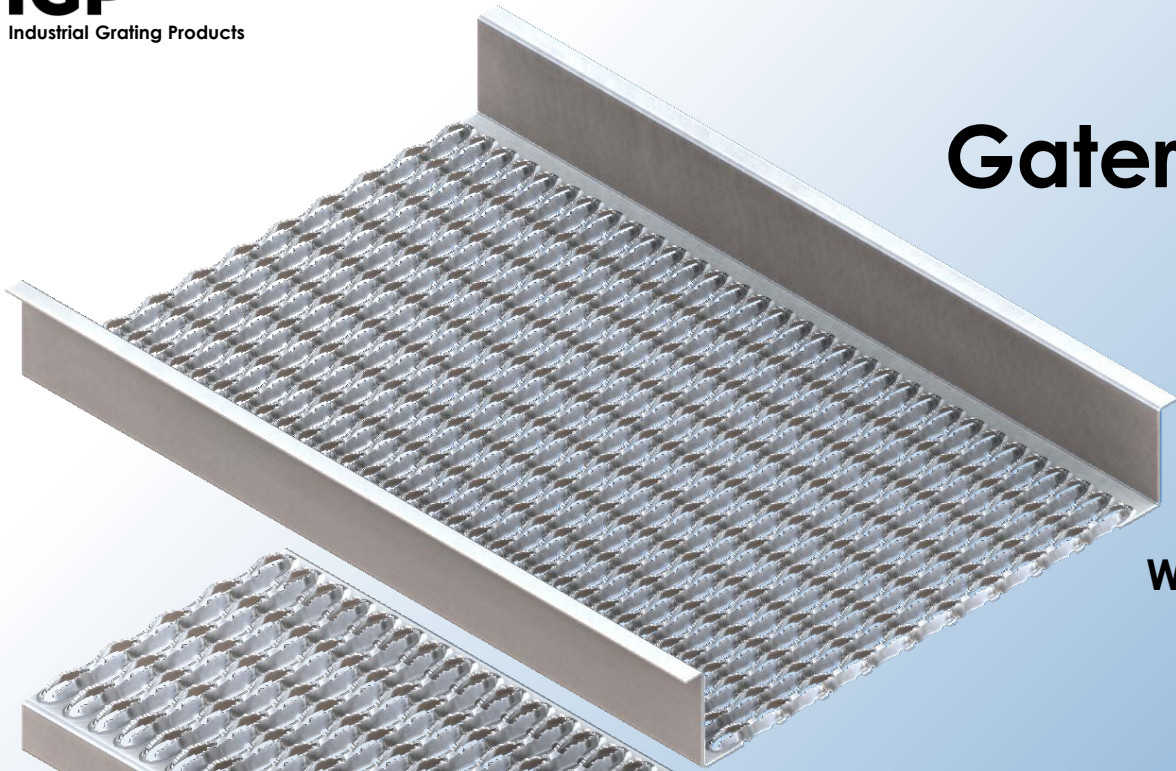
- Exceptional strength-to-weight ratio achieved through its structural design.
- Integrated side channels and grating form a plank capable of bearing heavy loads with minimal flex.
- Free of rivets or pressure joints that could weaken over time.
- Engineered for high load performance with durability that ensures extended service life.

## Quick & Simple Installation

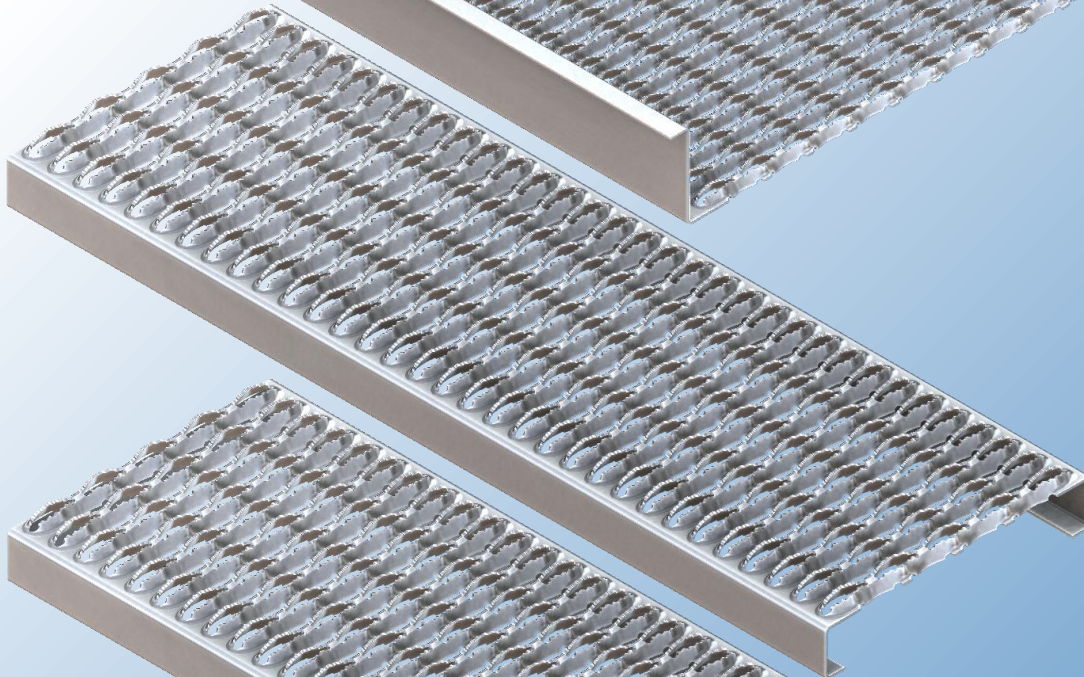
- Lightweight planks simplify handling and installation.
- Easily managed by a single worker.
- Most sections can be swiftly bolted, clamped, or welded in place, with the ability to be cut at various angles to accommodate field adjustments.
- Multiple attachment options allow for secure fastening to existing surfaces, enabling fast setup and easy disassembly when needed.



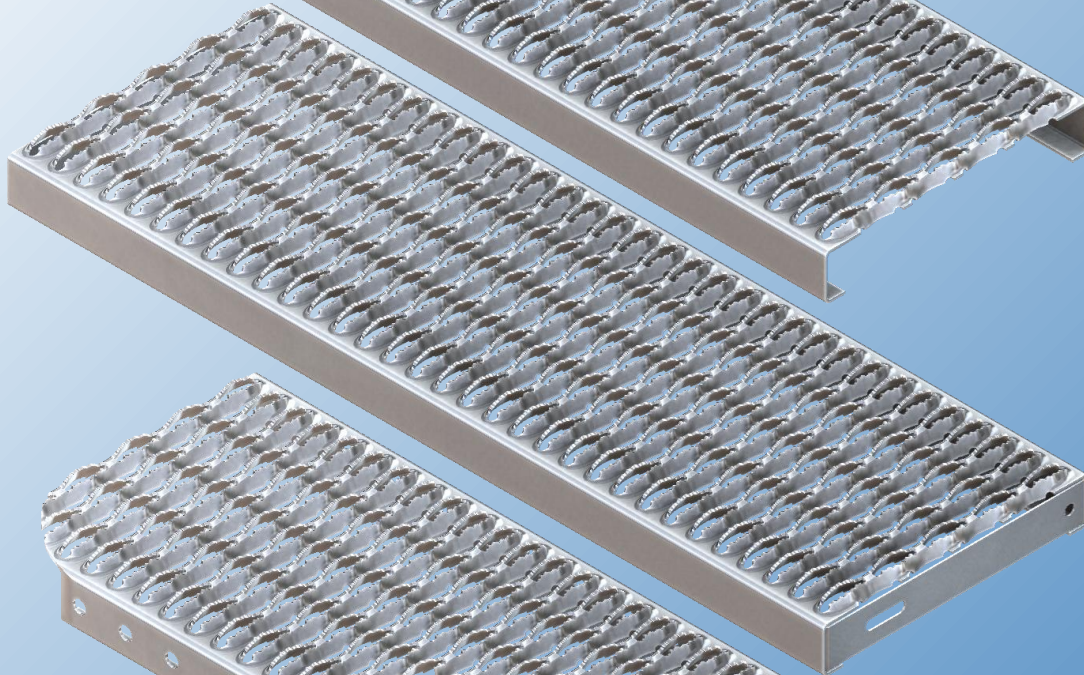
# Gater Grip™



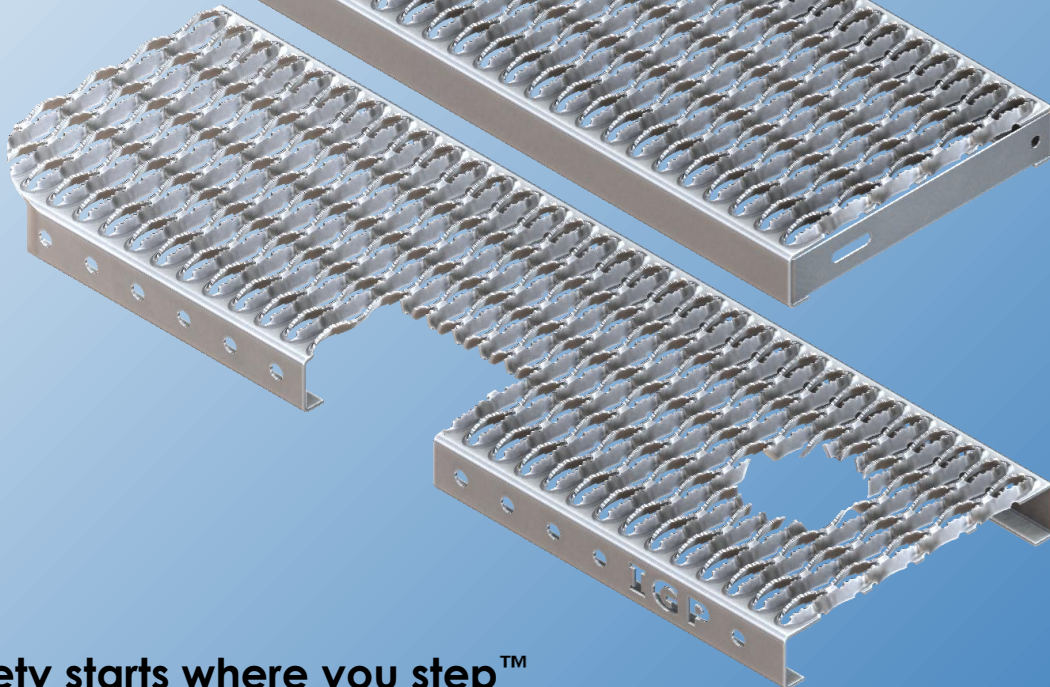
**Walkways**



**Planks**

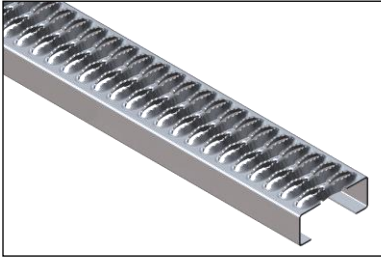


**Stair Treads**

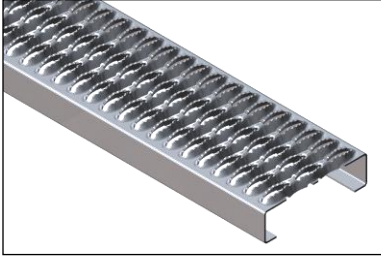


**Customized  
Grating**

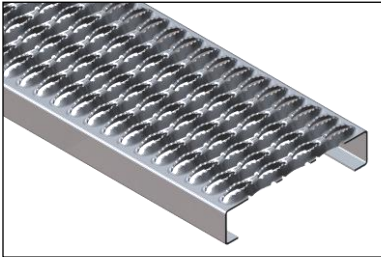
**Safety starts where you step™**



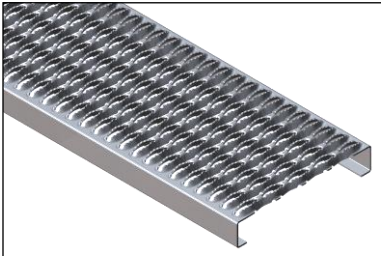
2-Diamond Plank



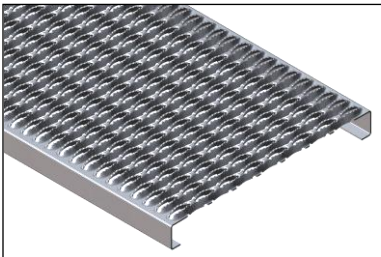
3-Diamond Plank



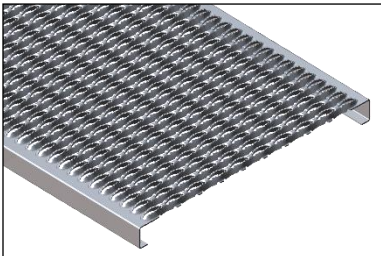
4-Diamond Plank



5-Diamond Plank



8-Diamond Plank

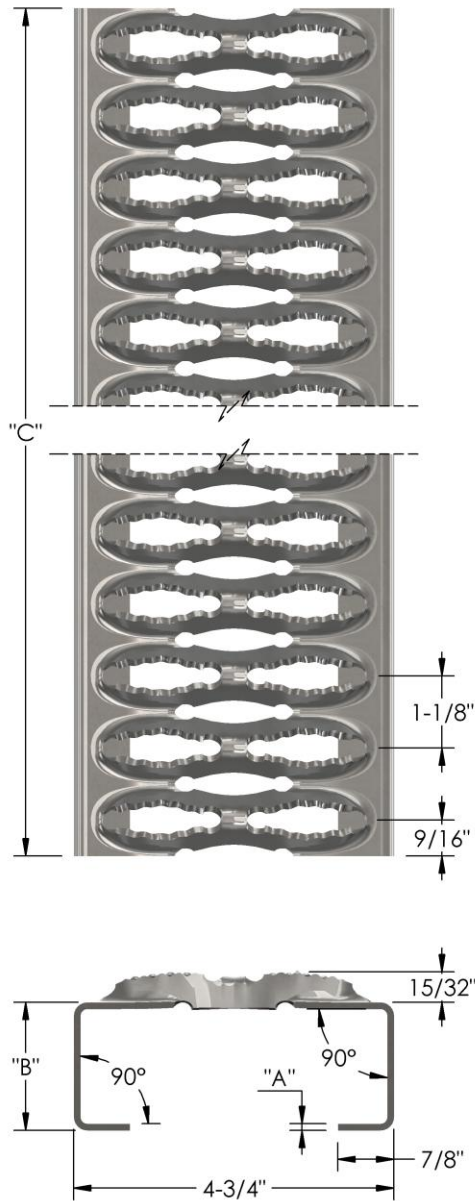


10-Diamond Plank

Material Selection		
Type	Description	Gauge
<b>STEEL</b>	Hot Rolled Pickled & Oiled	14 ga (.075")
		12 ga (.105")
<b>GALV STEEL</b>	ASTM 653 Galvanized G90	14 ga (.075")
		12 ga (.105")
<b>ALUMINUM</b>	5052-H32	12 ga (.080")
		10 ga (.100")
<b>STAINLESS</b>	304 Stainless Steel	16 ga (.060")

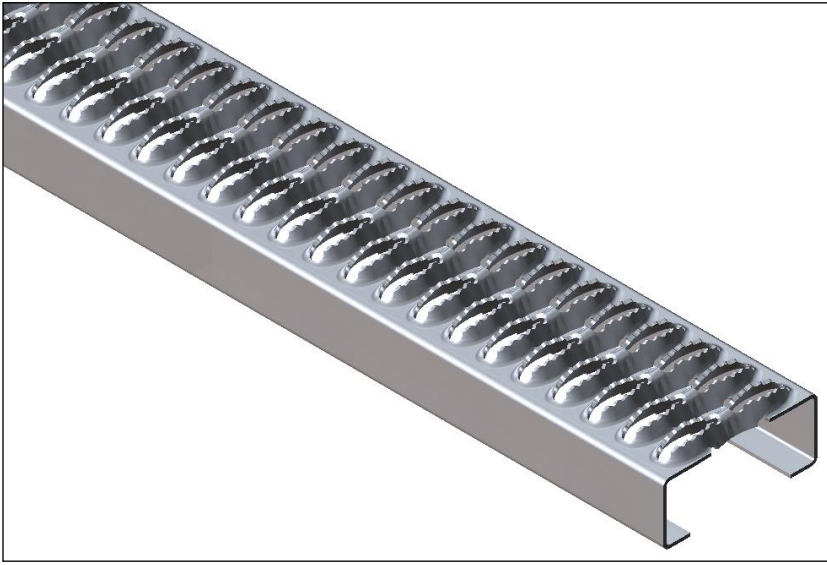
Channel Selection				
Grating		Channel Depth	Span Length	
Type	Width		10-foot	12-foot
<b>2-Diamond</b>	4-3/4"	1-1/2"	121-1/2"	144"
		2"		
<b>3-Diamond</b>	7"	1-1/2"	121-1/2"	144"
		2"		
<b>4-Diamond</b>	9-1/2"	1-1/2"	121-1/2"	144"
		2"		
<b>5-Diamond</b>	11-3/4"	1-1/2"	121-1/2"	144"
		2"		
<b>8-Diamond</b>	18-3/4"	1-1/2"	121-1/2"	144"
		2"		
<b>10-Diamond</b>	24"	2"	121-1/2"	144"
		3"		

## 4-3/4" WIDTH – 2 DIAMOND



Material		Thickness	Height	Length
Type	Description	"A"	"B"	"C"
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")	1-1/2"	121-1/2"
		12 ga (.105")		
GALVANIZED STEEL	ASTM 653 Galvanized G90	14 ga (.075")	2"	144"
		12 ga (.105")		
ALUMINUM	5052-H32	12 ga (.080")	Custom	Custom
		10 ga (.100")		
STAINLESS	304 Stainless Steel	16 ga (.060")		

## 4-3/4" WIDTH – 2 DIAMOND



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")
		12 ga (.105")
GALV	ASTM 653 Galvanized G90	14 ga (.075")
		12 ga (.105")
ALUMINUM	5052-H32	12 ga (.080")
		10 ga (.100")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

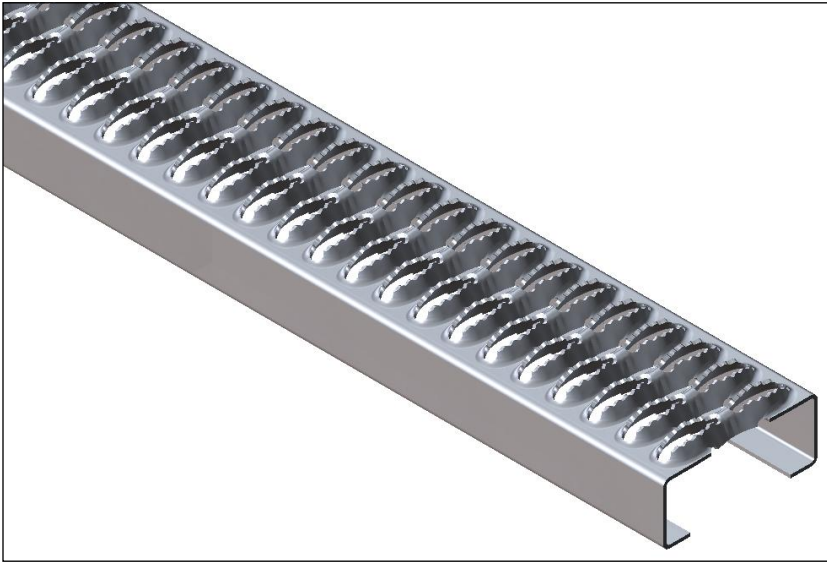
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL TYPE	GAUGE	CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																							
					DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'		
ALUMINUM	12 GA .080"	1.50"	0.85	U	1191	762	529	389	298	235	191	157	132	113	97	85	74	66	59	53	48	43	39	36	33			
				D	0.14	0.22	0.32	0.44	0.57	0.72	0.89	1.08	1.28	1.50	1.74	2.00	2.27	2.57	2.88	3.21	3.55	3.92	4.30	4.70	5.12			
				C	471	377	314	269	236	209	189	171	157	145	135	126	118	111	105	99	94	90	86	82	79	77		
		D	0.11	0.18	0.26	0.35	0.45	0.58	0.71	0.86	1.02	1.20	1.39	1.60	1.82	2.05	2.30	2.57	2.84	3.14	3.44	3.76	4.09	4.42	4.75			
		U	1627	1041	723	531	407	321	260	215	181	154	133	116	102	90	80	72	65	59	54	49	45	41	38			
		D	0.09	0.15	0.21	0.29	0.37	0.47	0.58	0.70	0.84	0.98	1.14	1.31	1.49	1.68	1.89	2.10	2.33	2.57	2.82	3.08	3.35	3.62	3.89			
	C	644	515	429	368	322	286	258	234	215	198	184	172	161	152	143	136	129	123	117	112	107	102	97				
	D	0.07	0.12	0.17	0.23	0.30	0.38	0.47	0.56	0.67	0.79	0.91	1.05	1.19	1.35	1.51	1.68	1.86	2.05	2.25	2.46	2.68	2.90	3.12				
	U	2252	1441	1001	735	563	445	360	298	250	213	184	160	141	125	111	100	90	82	74	68	63	59	55				
	D	0.08	0.12	0.18	0.24	0.32	0.40	0.50	0.60	0.71	0.84	0.97	1.12	1.27	1.43	1.61	1.79	1.99	2.19	2.40	2.63	2.86	3.09	3.32				
	C	891	713	594	509	446	396	357	324	297	274	255	238	223	210	198	188	178	170	162	155	149	143	137				
	D	0.06	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.29	1.43	1.59	1.75	1.92	2.10	2.29	2.47	2.66				
ALUMINUM	10 GA .100"	1.50"	1.05	U	1285	822	571	420	321	254	206	170	143	122	105	91	80	71	63	57	51	47	42	39	36			
				D	0.14	0.22	0.32	0.43	0.57	0.72	0.88	1.07	1.27	1.49	1.73	1.99	2.26	2.55	2.86	3.19	3.53	3.90	4.28	4.67	5.09			
				C	509	407	339	291	254	226	203	185	170	157	145	136	127	120	113	107	102	97	92	88	85	81		
		D	0.11	0.18	0.25	0.35	0.45	0.57	0.71	0.86	1.02	1.19	1.39	1.59	1.81	2.04	2.29	2.55	2.83	3.12	3.42	3.74	4.07	4.40				
		U	2057	1317	914	672	514	406	329	272	229	195	168	146	129	114	102	91	82	75	68	62	57	53	49			
		D	0.11	0.17	0.24	0.33	0.43	0.55	0.68	0.82	0.97	1.14	1.32	1.52	1.73	1.95	2.19	2.44	2.70	2.98	3.27	3.57	3.89	4.21				
	C	814	651	543	465	407	362	326	296	271	251	233	217	204	192	181	171	163	155	148	142	136	130	124				
	D	0.09	0.14	0.19	0.26	0.35	0.44	0.54	0.65	0.78	0.91	1.06	1.22	1.38	1.56	1.75	1.95	2.16	2.38	2.61	2.86	3.11	3.36					
	U	2788	1784	1239	910	697	551	446	369	310	264	228	198	174	154	138	124	112	101	92	84	77	71	65				
	D	0.08	0.13	0.18	0.25	0.33	0.41	0.51	0.62	0.73	0.86	1.00	1.15	1.31	1.48	1.65	1.84	2.04	2.25	2.47	2.70	2.94	3.18					
	C	1104	883	736	631	552	491	441	401	368	340	315	294	276	260	245	232	221	210	201	192	184	176	168				
	D	0.07	0.10	0.15	0.20	0.26	0.33	0.41	0.49	0.59	0.69	0.80	0.92	1.05	1.18	1.32	1.47	1.63	1.80	1.98	2.16	2.35	2.54					

These load tables are based on physical test results and are provided for reference only. Safe use and installation of grating products involve factors beyond testing conditions. Users should consult a licensed engineer and exercise independent judgment. This technical information is for evaluation by skilled professionals, and any use is at their own discretion and risk. IGP assumes no responsibility or liability for outcomes or damages resulting from improper assessment or use of grating products.



## 4-3/4" WIDTH – 2 DIAMOND



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")
		12 ga (.105")
GALV	ASTM 653 Galvanized G90	14 ga (.075")
		12 ga (.105")
ALUMINUM	5052-H32	12 ga (.080")
		10 ga (.100")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

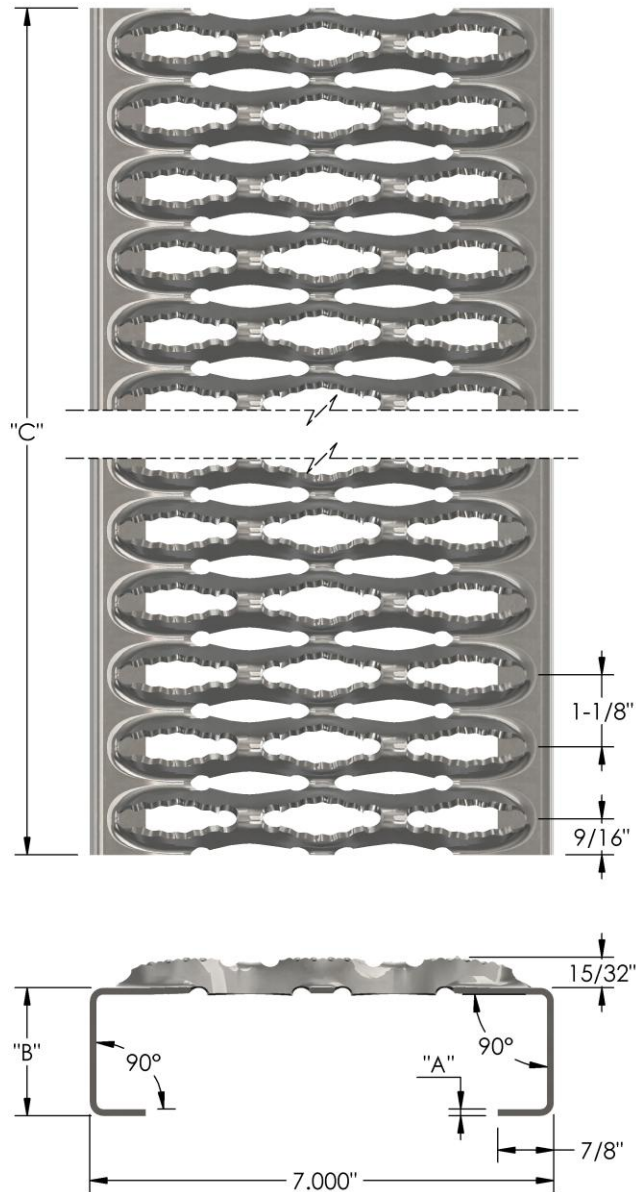
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																							
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'		
HRPO & GALVANIZED STEEL	14 GA .0747"	1.50"	2.25	U	1478	946	657	483	369	292	236	195	164	140	121	105	92	82	73	66	59	54	49	45	41			
				D	0.07	0.11	0.16	0.21	0.28	0.35	0.43	0.52	0.62	0.73	0.85	0.97	1.11	1.25	1.40	1.56	1.73	1.91	2.09	2.29	2.49			
				C	585	468	390	334	293	260	234	213	195	180	167	156	146	138	130	123	117	111	106	102	98			
		D	0.06	0.09	0.12	0.17	0.22	0.28	0.35	0.42	0.50	0.58	0.68	0.78	0.89	1.00	1.12	1.25	1.38	1.53	1.67	1.83	1.99					
		U	2403	1538	1068	784	601	475	384	318	267	227	196	171	150	133	119	106	96	87	79	73	67					
		D	0.06	0.09	0.12	0.17	0.22	0.28	0.34	0.42	0.50	0.58	0.68	0.78	0.88	1.00	1.12	1.24	1.38	1.52	1.67	1.82	1.99					
	C	951	761	634	543	476	423	380	346	317	293	272	254	238	224	211	200	190	181	173	165	159						
	D	0.04	0.07	0.10	0.14	0.18	0.22	0.28	0.33	0.40	0.47	0.54	0.62	0.71	0.80	0.89	1.00	1.10	1.22	1.34	1.46	1.59						
	U	2456	1572	1091	802	614	485	393	325	273	232	200	175	153	136	121	109	98	89	81	74	68						
	D	0.05	0.08	0.12	0.16	0.21	0.26	0.33	0.40	0.47	0.55	0.64	0.73	0.84	0.94	1.06	1.18	1.31	1.44	1.58	1.73	1.88						
	C	972	778	648	555	486	432	389	353	324	299	278	259	243	229	216	205	194	185	177	169	162						
	D	0.04	0.07	0.09	0.13	0.17	0.21	0.26	0.32	0.38	0.44	0.51	0.59	0.67	0.75	0.85	0.94	1.04	1.15	1.26	1.38	1.50						
HRPO & GALVANIZED STEEL	12 GA .1046"	1.50"	3.08	U	2099	1344	933	686	525	415	336	278	233	199	171	149	131	116	104	93	84	76	69	63	58			
				D	0.07	0.11	0.16	0.22	0.29	0.37	0.45	0.55	0.65	0.77	0.89	1.02	1.16	1.31	1.47	1.64	1.82	2.00	2.20	2.40	2.62			
				C	831	665	554	475	416	369	332	302	277	256	237	222	208	196	185	175	166	158	151	145	139			
		D	0.06	0.09	0.13	0.18	0.23	0.29	0.36	0.44	0.52	0.61	0.71	0.82	0.93	1.05	1.18	1.31	1.45	1.60	1.76	1.92	2.09					
		U	3176	2032	1411	1037	794	627	508	420	353	301	259	226	198	176	157	141	127	115	105	96	88					
		D	0.05	0.08	0.12	0.16	0.21	0.26	0.32	0.39	0.47	0.55	0.64	0.73	0.83	0.94	1.05	1.17	1.30	1.43	1.57	1.71	1.87					
	C	1257	1006	838	718	629	559	503	457	419	387	359	335	314	296	279	265	251	239	229	219	210						
	D	0.04	0.06	0.09	0.13	0.17	0.21	0.26	0.31	0.37	0.44	0.51	0.58	0.66	0.75	0.84	0.94	1.04	1.14	1.25	1.37	1.49						
	U	4297	2750	1910	1403	1074	849	688	568	477	407	351	306	269	238	212	190	172	156	142	130	119						
	D	0.04	0.06	0.09	0.12	0.16	0.20	0.24	0.29	0.35	0.41	0.48	0.55	0.62	0.70	0.79	0.88	0.97	1.07	1.18	1.29	1.40						
	C	1701	1361	1134	972	851	756	680	619	567	523	486	454	425	400	378	358	340	324	309	296	284						
	D	0.03	0.05	0.07	0.10	0.12	0.16	0.19	0.24	0.28	0.33	0.38	0.44	0.50	0.56	0.63	0.70	0.78	0.86	0.94	1.03	1.12						

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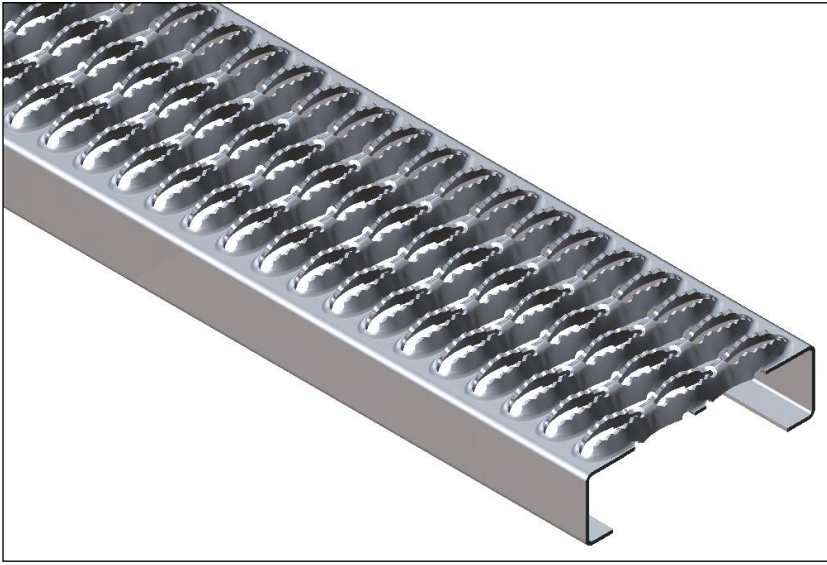


## 7" WIDTH – 3 DIAMOND



Material		Thickness	Height	Length
Type	Description	"A"	"B"	"C"
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")	1-1/2"	121-1/2"
		12 ga (.105")		
GALV	ASTM 653 Galvanized G90	14 ga (.075")	2"	144"
		12 ga (.105")		
ALUMINUM	5052-H32	12 ga (.080")	Custom	Custom
		10 ga (.100")		
STAINLESS	304 Stainless Steel	16 ga (.060")		

## 7.00" WIDTH – 3 DIAMOND



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")
		12 ga (.105")
GALV	ASTM 653 Galvanized G90	14 ga (.075")
		12 ga (.105")
ALUMINUM	5052-H32	12 ga (.080")
		10 ga (.100")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

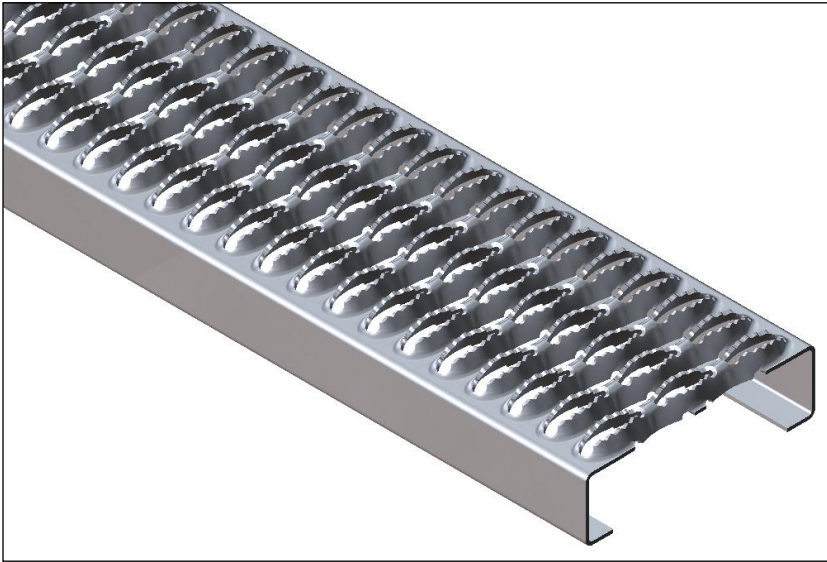
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																				
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"
ALUMINUM	12 GA .080"	1.50"	1.06	U	800	512	356	261	200	158	128	106	89	76	65	57	50	44	40	35	32	29	26	24	22
				D	0.15	0.23	0.33	0.45	0.59	0.74	0.92	1.11	1.32	1.55	1.80	2.07	2.35	2.66	2.98	3.32	3.68	4.05	4.45	4.86	5.29
				C	467	373	311	267	233	207	187	170	156	144	133	124	117	110	104	98	93	89	85	81	78
		D	0.12	0.18	0.26	0.36	0.47	0.60	0.74	0.89	1.06	1.24	1.44	1.65	1.88	2.13	2.38	2.65	2.94	3.24	3.56	3.89	4.24		
		U	1088	696	484	355	272	215	174	144	121	103	89	77	68	60	54	48	44	39	36	33	30		
		D	0.09	0.15	0.21	0.29	0.38	0.48	0.59	0.71	0.85	0.99	1.15	1.32	1.51	1.70	1.91	2.12	2.35	2.59	2.85	3.11	3.39		
	C	635	508	423	363	317	282	254	231	212	195	181	169	159	149	141	134	127	121	115	110	106			
	D	0.08	0.12	0.17	0.23	0.30	0.38	0.47	0.57	0.68	0.80	0.92	1.06	1.20	1.36	1.52	1.70	1.88	2.08	2.28	2.49	2.71			
	U	1504	963	668	491	376	297	241	199	167	142	123	107	94	83	74	67	60	55	50	45	42			
	D	0.08	0.13	0.18	0.25	0.32	0.41	0.50	0.61	0.72	0.85	0.98	1.13	1.28	1.45	1.62	1.81	2.01	2.21	2.43	2.65	2.89			
	C	877	702	585	501	439	390	351	319	292	270	251	234	219	206	195	185	175	167	160	153	146			
	D	0.06	0.10	0.14	0.20	0.26	0.32	0.40	0.49	0.58	0.68	0.79	0.90	1.03	1.16	1.30	1.45	1.60	1.77	1.94	2.12	2.31			
U	1976	1265	878	645	494	390	316	261	220	187	161	141	124	109	98	88	79	72	65	60	55				
D	0.06	0.10	0.14	0.19	0.25	0.32	0.39	0.47	0.56	0.66	0.77	0.88	1.00	1.13	1.27	1.41	1.56	1.72	1.89	2.07	2.25				
C	1153	922	768	659	576	512	461	419	384	355	329	307	288	271	256	243	231	220	210	200	192				
D	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.38	0.45	0.53	0.61	0.70	0.80	0.90	1.01	1.13	1.25	1.38	1.51	1.65	1.80				
ALUMINUM	10 GA .100"	1.50"	1.31	U	752	481	334	246	188	149	120	99	84	71	61	53	47	42	37	33	30	27	25	23	21
				D	0.13	0.20	0.29	0.40	0.52	0.65	0.81	0.98	1.16	1.36	1.58	1.81	2.06	2.33	2.61	2.91	3.23	3.56	3.90	4.27	4.64
				C	439	351	292	251	219	195	175	160	146	135	125	117	110	103	97	92	88	84	80	76	73
		D	0.10	0.16	0.23	0.32	0.41	0.52	0.65	0.78	0.93	1.09	1.26	1.45	1.65	1.86	2.09	2.33	2.58	2.84	3.12	3.41	3.72		
		U	1396	893	620	456	349	276	223	185	155	132	114	99	87	77	69	62	56	51	46	42	39		
		D	0.11	0.17	0.25	0.34	0.45	0.56	0.70	0.84	1.00	1.18	1.36	1.57	1.78	2.01	2.26	2.51	2.78	3.07	3.37	3.68	4.01		
	C	814	651	543	465	407	362	326	296	271	251	233	217	204	192	181	171	163	155	148	142	136			
	D	0.09	0.14	0.20	0.27	0.36	0.45	0.56	0.67	0.80	0.94	1.09	1.25	1.43	1.61	1.80	2.01	2.23	2.46	2.70	2.95	3.21			
	U	1544	988	686	504	386	305	247	204	172	146	126	110	97	85	76	68	62	56	51	47	43			
	D	0.08	0.12	0.18	0.24	0.31	0.40	0.49	0.59	0.70	0.83	0.96	1.10	1.25	1.41	1.59	1.77	1.96	2.16	2.37	2.59	2.82			
	C	901	721	600	515	450	400	360	328	300	277	257	240	225	212	200	190	180	172	164	157	150			
	D	0.06	0.10	0.14	0.19	0.25	0.32	0.39	0.47	0.56	0.66	0.77	0.88	1.00	1.13	1.27	1.41	1.57	1.73	1.89	2.07	2.25			
U	2016	1290	896	658	504	398	323	267	224	191	165	143	126	112	100	89	81	73	67	61	56				
D	0.06	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.90	1.02	1.15	1.29	1.44	1.59	1.75	1.93	2.10	2.29				
C	1176	941	784	672	588	523	470	428	392	362	336	314	294	277	261	248	235	224	214	205	196				
D	0.05	0.08	0.11	0.16	0.20	0.26	0.32	0.39	0.46	0.54	0.62	0.72	0.81	0.92	1.03	1.15	1.27	1.40	1.54	1.68	1.83				

These load tables are based on physical test results and are provided for reference only. Safe use and installation of grating products involve factors beyond testing conditions. Users should consult a licensed engineer and exercise independent judgment. This technical information is for evaluation by skilled professionals, and any use is at their own discretion and risk. IGP assumes no responsibility or liability for outcomes or damages resulting from improper assessment or use of grating products.



## 7.00" WIDTH – 3 DIAMOND



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")
		12 ga (.105")
GALV	ASTM 653 Galvanized G90	14 ga (.075")
		12 ga (.105")
ALUMINUM	5052-H32	12 ga (.080")
		10 ga (.100")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

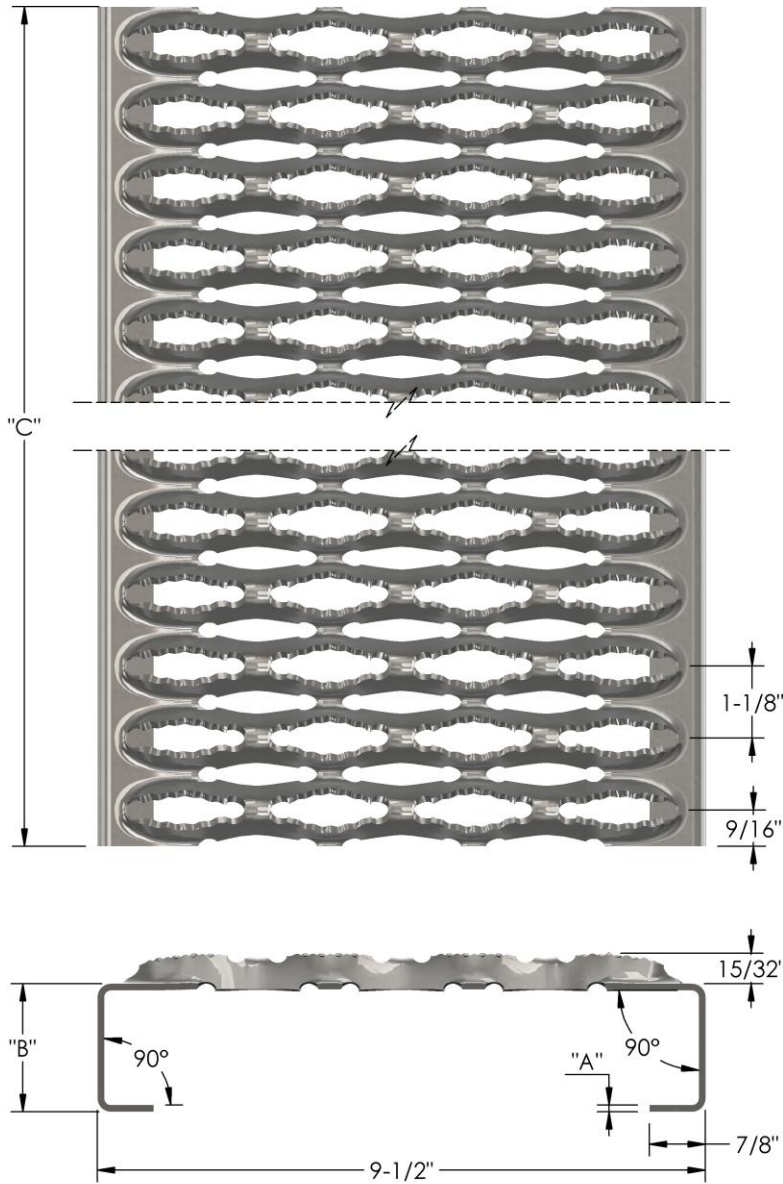
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD DEFL	CLEAR SPAN																				
TYPE	GAUGE				2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'
HRPO & GALVANIZED STEEL	14 GA .0747"	1.50"	2.80	U	993	635	441	324	248	196	159	131	110	94	81	71	62	55	49	44	40	36	33	30	28
				D	0.07	0.11	0.15	0.21	0.27	0.35	0.43	0.52	0.62	0.72	0.84	0.96	1.10	1.24	1.39	1.54	1.71	1.89	2.07	2.26	2.46
				C	579	463	386	331	290	257	232	211	193	178	165	154	145	136	129	122	116	110	105	101	97
		D	0.05	0.09	0.12	0.17	0.22	0.28	0.34	0.41	0.49	0.58	0.67	0.77	0.88	0.99	1.11	1.24	1.37	1.51	1.66	1.81	1.97		
		U	1630	1043	725	532	408	322	261	216	181	154	133	116	102	90	81	72	65	59	54	49	45		
		D	0.06	0.09	0.12	0.17	0.22	0.28	0.34	0.42	0.50	0.58	0.68	0.78	0.88	1.00	1.12	1.24	1.38	1.52	1.67	1.82	1.99		
	C	951	761	634	543	476	423	380	346	317	293	272	254	238	224	211	200	190	181	173	165	159			
	D	0.04	0.07	0.10	0.14	0.18	0.22	0.28	0.33	0.40	0.47	0.54	0.62	0.71	0.80	0.89	1.00	1.10	1.22	1.34	1.46	1.59			
	U	2227	1425	990	727	557	440	356	294	247	211	182	158	139	123	110	99	89	81	74	67	62			
	D	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.43	0.49	0.57	0.65	0.73	0.82	0.91	1.01	1.11	1.22	1.33	1.45			
	C	1299	1039	866	742	650	577	520	472	433	400	371	346	325	306	289	273	260	247	236	226	217			
	D	0.03	0.05	0.07	0.10	0.13	0.16	0.20	0.24	0.29	0.34	0.40	0.45	0.52	0.58	0.65	0.73	0.81	0.89	0.98	1.07	1.16			
HRPO & GALVANIZED STEEL	12 GA .1046"	1.50"	3.85	U	1404	899	624	458	351	277	225	186	156	133	115	100	88	78	69	62	56	51	46	42	39
				D	0.07	0.12	0.17	0.23	0.30	0.38	0.47	0.57	0.67	0.79	0.92	1.05	1.20	1.35	1.51	1.69	1.87	2.06	2.26	2.47	2.69
				C	819	655	546	468	410	364	328	298	273	252	234	218	205	193	182	172	164	156	149	142	137
		D	0.06	0.09	0.13	0.18	0.24	0.30	0.37	0.45	0.54	0.63	0.73	0.84	0.96	1.08	1.21	1.35	1.50	1.65	1.81	1.98	2.15		
		U	2114	1353	939	690	528	418	338	279	235	200	173	150	132	117	104	94	85	77	70	64	59		
		D	0.05	0.08	0.12	0.16	0.21	0.26	0.33	0.40	0.47	0.55	0.64	0.73	0.84	0.94	1.06	1.18	1.31	1.44	1.58	1.73	1.88		
	C	1233	986	822	705	617	548	493	448	411	379	352	329	308	290	274	260	247	235	224	214	206			
	D	0.04	0.07	0.09	0.13	0.17	0.21	0.26	0.32	0.38	0.44	0.51	0.59	0.67	0.75	0.85	0.94	1.04	1.15	1.26	1.38	1.50			
	U	2906	1860	1291	949	726	574	465	384	323	275	237	207	182	161	143	129	116	105	96	88	81			
	D	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.64	0.72	0.80	0.90	0.99	1.09	1.20	1.31	1.43			
	C	1695	1356	1130	969	848	753	678	616	565	522	484	452	424	399	377	357	339	323	308	295	283			
	D	0.03	0.05	0.07	0.10	0.13	0.16	0.20	0.24	0.29	0.34	0.39	0.45	0.51	0.57	0.64	0.72	0.79	0.88	0.96	1.05	1.14			
U	3873	2478	1721	1265	968	765	620	512	430	367	316	275	242	214	191	172	155	141	128	117	108				
D	0.03	0.05	0.07	0.10	0.13	0.17	0.20	0.25	0.29	0.34	0.40	0.46	0.52	0.59	0.66	0.74	0.82	0.90	0.99	1.08	1.17				
C	2259	1807	1506	1291	1130	1004	904	821	753	695	645	602	565	532	502	476	452	430	411	393	377				
D	0.03	0.04	0.06	0.08	0.10	0.13	0.16	0.20	0.23	0.28	0.32	0.37	0.42	0.47	0.53	0.59	0.65	0.72	0.79	0.86	0.94				

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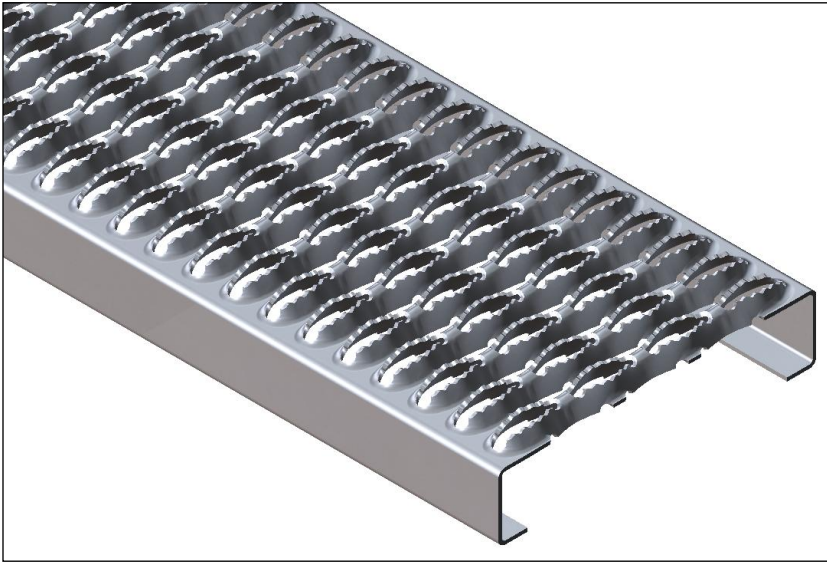


## 9-1/2" WIDTH – 4 DIAMOND



Material		Thickness	Height	Length
Type	Description	"A"	"B"	"C"
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")	1-1/2"	121-1/2"
		12 ga (.105")		
GALV	ASTM 653 Galvanized G90	14 ga (.075")	2"	144"
		12 ga (.105")		
ALUMINUM	5052-H32	12 ga (.080")	Custom	Custom
		10 ga (.100")		
STAINLESS	304 Stainless Steel	16 ga (.060")		

## 9-1/2" WIDTH – 4 DIAMOND



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")
		12 ga (.105")
GALV	ASTM 653 Galvanized G90	14 ga (.075")
		12 ga (.105")
ALUMINUM	5052-H32	12 ga (.080")
		10 ga (.100")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

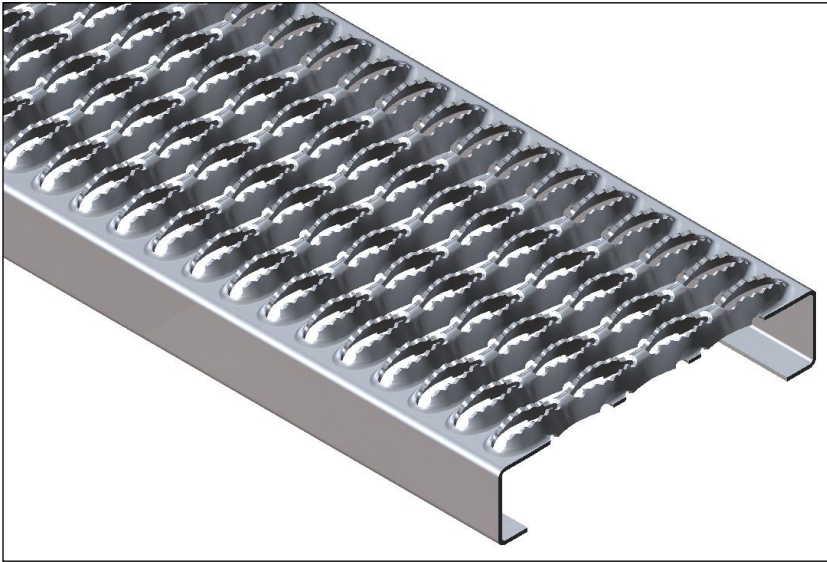
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD DEF.	CLEAR SPAN																				
TYPE	GAUGE				2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'
ALUMINUM	12 GA .080"	1.50"	1.30	U	589	377	262	192	147	116	94	78	65	56	48	42	37	33	29	26	24	21	19	18	16
				D	0.13	0.21	0.30	0.40	0.53	0.67	0.82	1.00	1.19	1.39	1.61	1.85	2.11	2.38	2.67	2.97	3.29	3.63	3.99	4.36	4.74
				C	467	373	311	267	233	207	187	170	156	144	133	124	117	110	104	98	93	89	85	81	78
		2.00"	1.39	U	837	536	372	273	209	165	134	111	93	79	68	60	52	46	41	37	33	30	28	25	23
				D	0.10	0.15	0.21	0.29	0.38	0.48	0.60	0.72	0.86	1.01	1.17	1.34	1.53	1.72	1.93	2.15	2.39	2.63	2.89	3.16	3.44
				C	663	530	442	379	331	295	265	241	221	204	189	177	166	156	147	140	133	126	120	115	110
		2.50"	1.49	U	1149	736	511	375	287	227	184	152	128	109	94	82	72	64	57	51	46	42	38	35	32
				D	0.08	0.12	0.17	0.24	0.31	0.39	0.48	0.58	0.69	0.82	0.95	1.09	1.24	1.39	1.56	1.74	1.93	2.13	2.34	2.55	2.78
				C	910	728	607	520	455	404	364	331	303	280	260	243	228	214	202	192	182	173	165	158	152
		3.00"	1.59	U	1338	856	595	437	335	264	214	177	149	127	109	95	84	74	66	59	54	49	44	40	37
				D	0.06	0.09	0.13	0.17	0.22	0.28	0.35	0.42	0.51	0.59	0.69	0.79	0.90	1.01	1.14	1.27	1.40	1.55	1.70	1.86	2.02
				C	1059	847	706	605	530	471	424	385	353	326	303	282	265	249	235	223	212	202	193	184	177
ALUMINUM	10 GA .100"	1.50"	1.60	U	589	377	262	192	147	116	94	78	65	56	48	42	37	33	29	26	24	21	19	18	16
				D	0.14	0.21	0.31	0.42	0.55	0.69	0.86	1.04	1.24	1.45	1.68	1.93	2.20	2.48	2.78	3.10	3.43	3.78	4.15	4.54	4.94
				C	467	373	311	267	233	207	187	170	156	144	133	124	117	110	104	98	93	89	85	81	78
		2.00"	1.73	U	1049	672	466	343	262	207	168	139	117	99	86	75	66	58	52	47	42	38	35	32	29
				D	0.11	0.18	0.26	0.35	0.46	0.58	0.72	0.87	1.03	1.21	1.40	1.61	1.83	2.07	2.32	2.58	2.86	3.16	3.46	3.79	4.12
				C	831	665	554	475	415	369	332	302	277	256	237	222	208	195	185	175	166	158	151	144	138
		2.50"	1.85	U	1394	892	620	455	349	275	223	184	155	132	114	99	87	77	69	62	56	51	46	42	39
				D	0.08	0.12	0.17	0.24	0.31	0.39	0.48	0.59	0.70	0.82	0.95	1.09	1.24	1.40	1.57	1.75	1.94	2.14	2.35	2.57	2.79
				C	1104	883	736	631	552	491	441	401	368	340	315	294	276	260	245	232	221	210	201	192	184
		3.00"	1.97	U	1821	1166	810	595	455	360	291	241	202	172	149	130	114	101	90	81	73	66	60	55	51
				D	0.06	0.10	0.14	0.19	0.25	0.32	0.39	0.48	0.57	0.67	0.77	0.89	1.01	1.14	1.28	1.42	1.58	1.74	1.91	2.09	2.27
				C	1442	1154	961	824	721	641	577	524	481	444	412	385	361	339	320	304	288	275	262	251	240

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## 9-1/2" WIDTH – 4 DIAMOND



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")
		12 ga (.105")
GALV	ASTM 653 Galvanized G90	14 ga (.075")
		12 ga (.105")
ALUMINUM	5052-H32	12 ga (.080")
		10 ga (.100")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

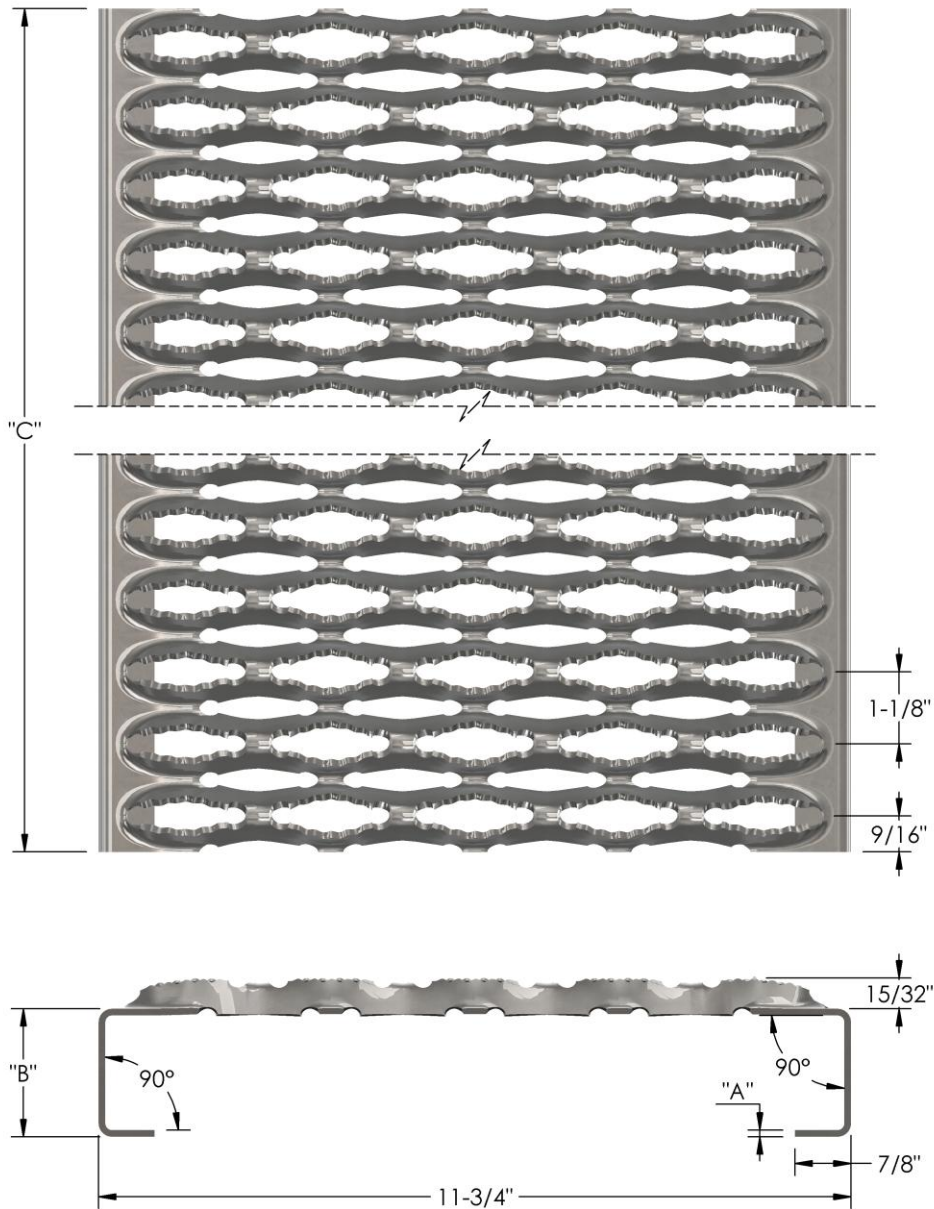
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD DEF.	CLEAR SPAN																				
TYPE	GAUGE				2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'
HRPO & GALVANIZED STEEL	14 GA .0747"	1.50"	3.41	U	765	490	340	250	191	151	122	101	85	72	62	54	48	42	38	34	31	28	25	23	21
				D	0.07	0.11	0.16	0.21	0.28	0.35	0.43	0.52	0.62	0.73	0.85	0.97	1.10	1.25	1.40	1.56	1.73	1.90	2.09	2.28	2.48
				C	606	485	404	346	303	269	242	220	202	186	173	162	152	143	135	128	121	115	110	105	101
		D	0.06	0.09	0.12	0.17	0.22	0.28	0.35	0.42	0.50	0.58	0.68	0.78	0.88	1.00	1.12	1.25	1.38	1.52	1.67	1.83	1.99		
		2.00"	3.67	U	1220	781	542	398	305	241	195	161	136	116	100	87	76	68	60	54	49	44	40	37	34
				D	0.05	0.08	0.12	0.17	0.22	0.27	0.34	0.41	0.49	0.57	0.66	0.76	0.86	0.98	1.09	1.22	1.35	1.49	1.63	1.79	1.94
	C			966	773	644	552	483	429	386	351	322	297	276	258	242	227	215	203	193	184	176	168	161	
	D	0.04	0.07	0.10	0.13	0.17	0.22	0.27	0.33	0.39	0.46	0.53	0.61	0.69	0.78	0.88	0.98	1.08	1.19	1.31	1.43	1.56			
	2.50"	3.92	U	1701	1089	756	556	425	336	272	225	189	161	139	121	106	94	84	75	68	62	56	51	47	
D			0.04	0.06	0.09	0.12	0.16	0.21	0.25	0.31	0.37	0.43	0.50	0.57	0.65	0.74	0.83	0.92	1.02	1.12	1.23	1.35	1.47		
C			1347	1078	898	770	674	599	539	490	449	414	385	359	337	317	299	284	269	257	245	234	225		
D	0.03	0.05	0.07	0.10	0.13	0.17	0.20	0.25	0.29	0.34	0.40	0.46	0.52	0.59	0.66	0.74	0.82	0.90	0.99	1.08	1.17				
HRPO & GALVANIZED STEEL	12 GA .1046"	1.50"	4.71	U	1091	698	485	356	273	216	175	144	121	103	89	78	68	60	54	48	44	40	36	33	30
				D	0.08	0.12	0.17	0.23	0.30	0.38	0.47	0.57	0.68	0.80	0.93	1.06	1.21	1.36	1.53	1.70	1.89	2.08	2.28	2.50	2.72
				C	864	691	576	494	432	384	346	314	288	266	247	230	216	203	192	182	173	165	157	150	144
		D	0.06	0.09	0.14	0.19	0.24	0.31	0.38	0.46	0.54	0.64	0.74	0.85	0.97	1.09	1.22	1.36	1.51	1.67	1.83	2.00	2.18		
		2.00"	5.07	U	1633	1045	726	533	408	323	261	216	181	155	133	116	102	90	81	72	65	59	54	49	45
				D	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.38	0.45	0.53	0.61	0.70	0.80	0.90	1.01	1.13	1.25	1.38	1.51	1.65	1.80
	C			1293	1034	862	739	647	575	517	470	431	398	369	345	323	304	287	272	259	246	235	225	216	
	D	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.64	0.72	0.81	0.90	1.00	1.10	1.21	1.32	1.44			
	2.50"	5.42	U	2145	1373	953	700	536	424	343	284	238	203	175	153	134	119	106	95	86	78	71	65	60	
			D	0.04	0.06	0.08	0.11	0.15	0.19	0.23	0.28	0.33	0.39	0.45	0.52	0.59	0.67	0.75	0.83	0.92	1.02	1.11	1.22	1.33	
			C	1698	1358	1132	970	849	755	679	617	566	522	485	453	425	400	377	357	340	323	309	295	283	
	D	0.03	0.05	0.07	0.09	0.12	0.15	0.18	0.22	0.27	0.31	0.36	0.41	0.47	0.53	0.60	0.67	0.74	0.81	0.89	0.97	1.06			
3.00"	5.78	U	2963	1897	1317	968	741	585	474	392	329	281	242	211	185	164	146	131	119	108	98	90	82		
		D	0.03	0.05	0.07	0.10	0.13	0.16	0.20	0.25	0.29	0.34	0.40	0.46	0.52	0.59	0.66	0.73	0.81	0.89	0.98	1.07	1.17		
		C	2346	1877	1564	1341	1173	1043	938	853	782	722	670	626	587	552	521	494	469	447	427	408	391		
D	0.03	0.04	0.06	0.08	0.10	0.13	0.16	0.20	0.23	0.27	0.32	0.37	0.42	0.47	0.53	0.59	0.65	0.72	0.79	0.86	0.94				
SS304	16 GA .060"	2.00"	3.02	U	923	591	410	301	231	182	148	122	103	87	75	66	58	51	46	41	37	33	31	28	26
				D	0.05	0.08	0.12	0.17	0.22	0.27	0.34	0.41	0.49	0.57	0.67	0.76	0.87	0.98	1.10	1.23	1.36	1.50	1.64	1.80	1.95
				C	731	584	487	417	365	325	292	266	244	225	209	195	183	172	162	154	146	139	133	127	122
				D	0.04	0.07	0.10	0.13	0.17	0.22	0.27	0.33	0.39	0.46	0.53	0.61	0.70	0.78	0.88	0.98	1.09	1.20	1.31	1.44	1.56

These load tables are based on physical test results and are provided for reference only. Safe use and installation of grating products involve factors beyond testing conditions. Users should consult a licensed engineer and exercise independent judgment. This technical information is for evaluation by skilled professionals, and any use is at their own discretion and risk. IGP assumes no responsibility or liability for outcomes or damages resulting from improper assessment or use of grating products.

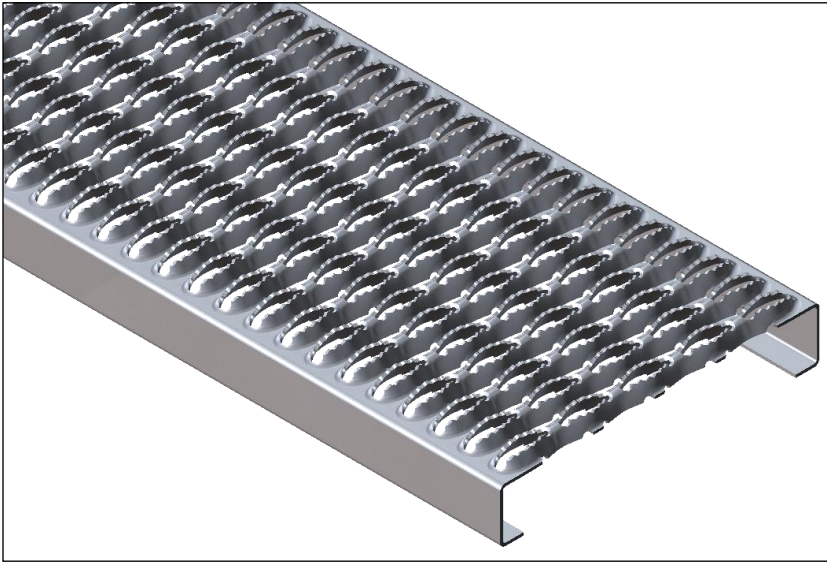


## 11-3/4" WIDTH – 5 DIAMOND



Material		Thickness	Height	Length
Type	Description	"A"	"B"	"C"
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")	1-1/2"	121-1/2"
		12 ga (.105")		
GALV	ASTM 653 Galvanized G90	14 ga (.075")	2"	144"
		12 ga (.105")		
ALUMINUM	5052-H32	12 ga (.080")	Custom	Custom
		10 ga (.100")		
STAINLESS	304 Stainless Steel	16 ga (.060")		

## 11-3/4" WIDTH – 5 DIAMOND



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")
		12 ga (.105")
GALV	ASTM 653 Galvanized G90	14 ga (.075")
		12 ga (.105")
ALUMINUM	5052-H32	12 ga (.080")
		10 ga (.100")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

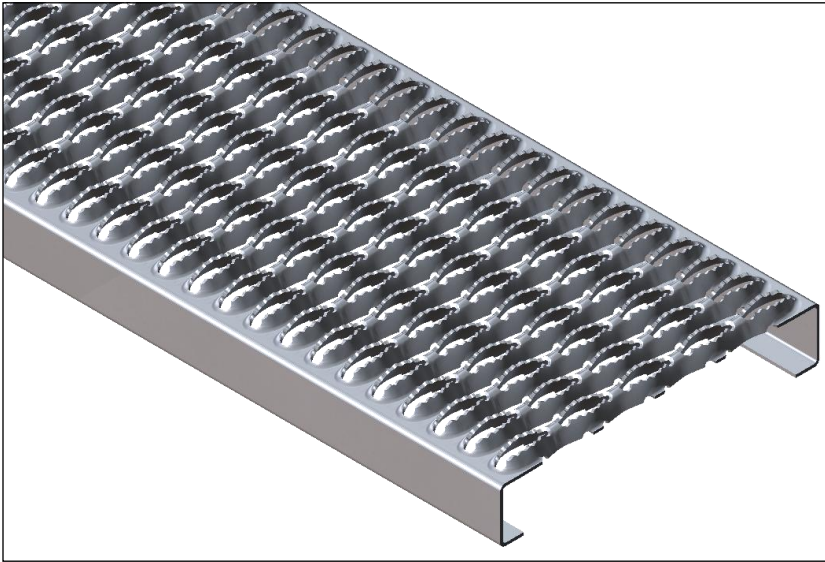
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																				
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"
ALUMINUM	12 GA .080"	1.50"	1.51	U	477	305	212	156	119	94	76	63	53	45	39	34	30	26	24	21	19	17	16	14	13
				D	0.13	0.21	0.30	0.40	0.53	0.67	0.82	1.00	1.19	1.39	1.61	1.85	2.11	2.38	2.67	2.97	3.29	3.63	3.99	4.36	4.74
		2.00"	1.60	C	467	373	311	267	233	207	187	170	156	144	133	124	117	110	104	98	93	89	85	81	78
				D	0.11	0.16	0.24	0.32	0.42	0.53	0.66	0.80	0.95	1.11	1.29	1.48	1.69	1.90	2.13	2.38	2.64	2.91	3.19	3.49	3.79
		2.50"	1.70	U	929	595	413	303	232	184	149	123	103	88	76	66	58	51	46	41	37	34	31	28	26
				D	0.08	0.12	0.17	0.24	0.31	0.39	0.48	0.58	0.69	0.82	0.95	1.09	1.24	1.39	1.56	1.74	1.93	2.13	2.34	2.55	2.78
	3.00"	1.80	C	910	728	607	520	455	404	364	331	303	280	260	243	228	214	202	192	182	173	165	158	152	
			D	0.06	0.10	0.14	0.19	0.25	0.31	0.39	0.47	0.56	0.65	0.76	0.87	0.99	1.12	1.25	1.39	1.54	1.70	1.87	2.04	2.22	
	10 GA .100"	1.50"	1.87	U	1082	692	481	353	270	214	173	143	120	102	88	77	68	60	53	48	43	39	36	33	30
				D	0.06	0.09	0.13	0.17	0.22	0.28	0.35	0.42	0.51	0.59	0.69	0.79	0.90	1.01	1.14	1.27	1.40	1.55	1.70	1.86	2.02
		2.00"	1.99	C	1059	847	706	605	530	471	424	385	353	326	303	282	265	249	235	223	212	202	193	184	177
				D	0.04	0.07	0.10	0.14	0.18	0.23	0.28	0.34	0.40	0.47	0.55	0.63	0.72	0.81	0.91	1.01	1.12	1.24	1.36	1.48	1.62
2.50"		2.11	U	548	351	244	179	137	108	88	72	61	52	45	39	34	30	27	24	22	20	18	17	15	
			D	0.14	0.22	0.32	0.43	0.57	0.72	0.88	1.07	1.27	1.49	1.73	1.99	2.26	2.55	2.86	3.19	3.53	3.90	4.28	4.67	5.09	
3.00"	2.23	C	537	429	358	307	268	239	215	195	179	165	153	143	134	126	119	113	107	102	98	93	89		
		D	0.11	0.18	0.25	0.35	0.45	0.57	0.71	0.86	1.02	1.19	1.39	1.59	1.81	2.04	2.29	2.55	2.83	3.12	3.42	3.74	4.07		
ALUMINUM	1.50"	1.87	U	848	543	377	277	212	168	136	112	94	80	69	60	53	47	42	38	34	31	28	26	24	
			D	0.10	0.16	0.24	0.32	0.42	0.53	0.65	0.79	0.94	1.11	1.28	1.47	1.68	1.89	2.12	2.36	2.62	2.89	3.17	3.46	3.77	
	2.00"	1.99	C	831	665	554	475	415	369	332	302	277	256	237	222	208	195	185	175	166	158	151	144	138	
			D	0.08	0.13	0.19	0.26	0.34	0.42	0.52	0.63	0.75	0.88	1.03	1.18	1.34	1.51	1.70	1.89	2.09	2.31	2.53	2.77	3.02	
	2.50"	2.11	U	1127	721	501	368	282	223	180	149	125	107	92	80	70	62	56	50	45	41	37	34	31	
			D	0.08	0.12	0.17	0.24	0.31	0.39	0.48	0.59	0.70	0.82	0.95	1.09	1.24	1.40	1.57	1.75	1.94	2.14	2.35	2.57	2.79	
3.00"	2.23	C	1104	883	736	631	552	491	441	401	368	340	315	294	276	260	245	232	221	210	201	192	184		
		D	0.06	0.10	0.14	0.19	0.25	0.31	0.39	0.47	0.56	0.66	0.76	0.87	0.99	1.12	1.26	1.40	1.55	1.71	1.88	2.05	2.23		
3.00"	2.23	U	1473	943	655	481	368	291	236	195	164	139	120	105	92	82	73	65	59	53	49	45	41		
		D	0.06	0.10	0.14	0.19	0.25	0.32	0.39	0.48	0.57	0.67	0.77	0.89	1.01	1.14	1.28	1.42	1.58	1.74	1.91	2.09	2.27		
3.00"	2.23	C	1442	1154	961	824	721	641	577	524	481	444	412	385	361	339	320	304	288	275	262	251	240		
		D	0.05	0.08	0.11	0.15	0.20	0.26	0.32	0.38	0.45	0.53	0.62	0.71	0.81	0.91	1.02	1.14	1.26	1.39	1.53	1.67	1.82		

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## 11-3/4" WIDTH – 5 DIAMOND



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")
		12 ga (.105")
GALV	ASTM 653 Galvanized G90	14 ga (.075")
		12 ga (.105")
ALUMINUM	5052-H32	12 ga (.080")
		10 ga (.100")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

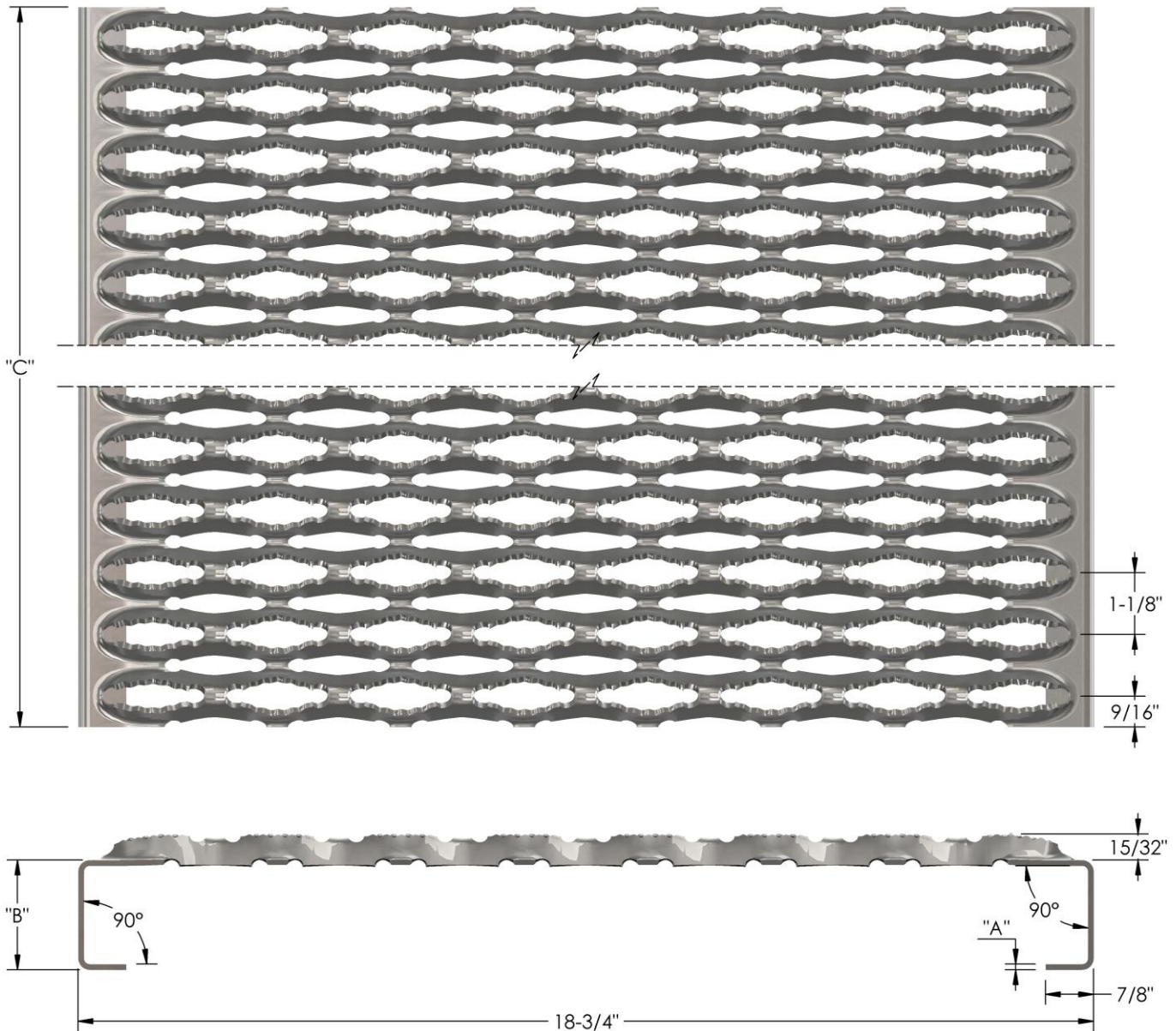
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD DEF.	CLEAR SPAN																					
TYPE	GAUGE				2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'	
HRPO & GALVANIZED STEEL	14 GA .0747"	1.50"	3.96	U	619	396	275	202	155	122	99	82	69	59	51	44	39	34	31	27	25	22	20	19	17	
				D	0.07	0.11	0.16	0.21	0.28	0.35	0.43	0.52	0.62	0.73	0.85	0.97	1.10	1.25	1.40	1.56	1.73	1.90	2.09	2.28	2.48	
				C	606	485	404	346	303	269	242	220	202	186	173	162	152	143	135	128	121	115	110	105	101	
		2.00"	4.22	U	987	631	438	322	247	195	158	130	110	93	81	70	62	55	49	44	39	36	33	30	27	
				D	0.05	0.08	0.12	0.17	0.22	0.27	0.34	0.41	0.49	0.57	0.66	0.76	0.86	0.98	1.09	1.22	1.35	1.49	1.63	1.79	1.94	
				C	966	773	644	552	483	429	386	351	322	297	276	258	242	227	215	203	193	184	176	168	161	
	2.50"	4.47	U	1376	880	611	449	344	272	220	182	153	130	112	98	86	76	68	61	55	50	45	42	38		
			D	0.04	0.06	0.09	0.12	0.16	0.21	0.25	0.31	0.37	0.43	0.50	0.57	0.65	0.74	0.83	0.92	1.02	1.12	1.23	1.35	1.47		
			C	1347	1078	898	770	674	599	539	490	449	414	385	359	337	317	299	284	269	257	245	234	225		
	HRPO & GALVANIZED STEEL	12 GA .1046"	1.50"	5.48	U	882	565	392	288	221	174	141	117	98	84	72	63	55	49	44	39	35	32	29	27	25
					D	0.07	0.11	0.16	0.22	0.29	0.37	0.45	0.55	0.65	0.77	0.89	1.02	1.16	1.31	1.47	1.64	1.81	2.00	2.19	2.40	2.61
					C	864	691	576	494	432	384	346	314	288	266	247	230	216	203	192	182	173	165	157	150	144
2.00"			5.84	U	1321	845	587	431	330	261	211	175	147	125	108	94	83	73	65	59	53	48	44	40	37	
				D	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.38	0.45	0.53	0.61	0.70	0.80	0.90	1.01	1.13	1.25	1.38	1.51	1.65	1.80	
				C	1293	1034	862	739	647	575	517	470	431	398	369	345	323	304	287	272	259	246	235	225	216	
2.50"		6.19	U	1734	1110	771	566	434	343	277	229	193	164	142	123	108	96	86	77	69	63	57	52	48		
			D	0.04	0.06	0.08	0.11	0.15	0.19	0.23	0.28	0.33	0.39	0.45	0.52	0.59	0.67	0.75	0.83	0.92	1.02	1.11	1.22	1.33		
			C	1698	1358	1132	970	849	755	679	617	566	522	485	453	425	400	377	357	340	323	309	295	283		
3.00"		6.55	U	2396	1533	1065	782	599	473	383	317	266	227	196	170	150	133	118	106	96	87	79	72	67		
			D	0.03	0.05	0.07	0.10	0.13	0.16	0.20	0.25	0.29	0.34	0.40	0.46	0.52	0.59	0.66	0.73	0.81	0.89	0.98	1.07	1.17		
			C	2346	1877	1564	1341	1173	1043	938	853	782	722	670	626	587	552	521	494	469	447	427	408	391		
SS304	16 GA .060"	2.00"	3.47	U	746	478	332	244	187	147	119	99	83	71	61	53	47	41	37	33	30	27	25	23	21	
				D	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.37	0.44	0.52	0.61	0.70	0.79	0.89	1.00	1.12	1.24	1.36	1.50	1.63	1.78	
				C	731	584	487	417	365	325	292	266	244	225	209	195	183	172	162	154	146	139	133	127	122	
				D	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.48	0.56	0.63	0.71	0.80	0.89	0.99	1.09	1.20	1.31	1.42	

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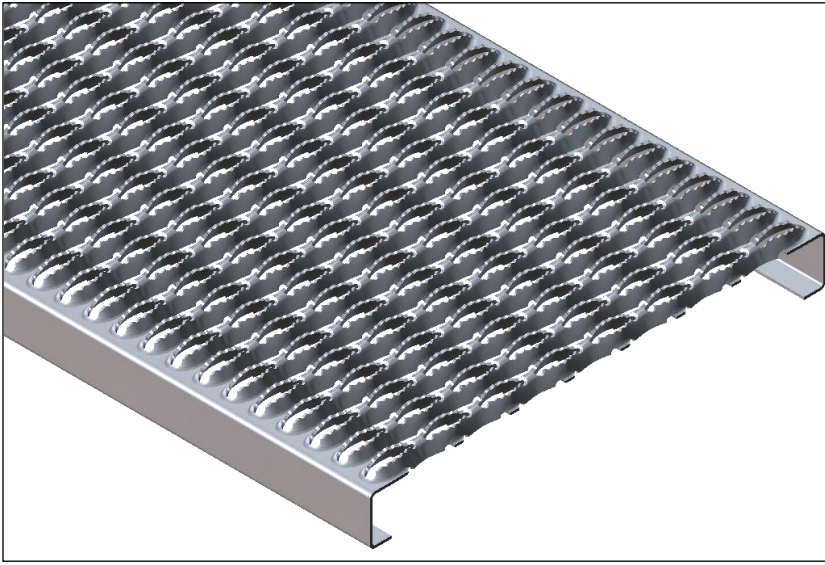


## 18-3/4" WIDTH – 8 DIAMOND



Material		Thickness	Height	Length
Type	Description	"A"	"B"	"C"
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")	1-1/2"	121-1/2"
		12 ga (.105")		
GALV	ASTM 653 Galvanized G90	14 ga (.075")	2"	144"
		12 ga (.105")		
ALUMINUM	5052-H32	12 ga (.080")	Custom	Custom
		10 ga (.100")		
STAINLESS	304 Stainless Steel	16 ga (.060")		

## 18-3/4" WIDTH – 8 DIAMOND



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")
		12 ga (.105")
GALV	ASTM 653 Galvanized G90	14 ga (.075")
		12 ga (.105")
ALUMINUM	5052-H32	12 ga (.080")
		10 ga (.100")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

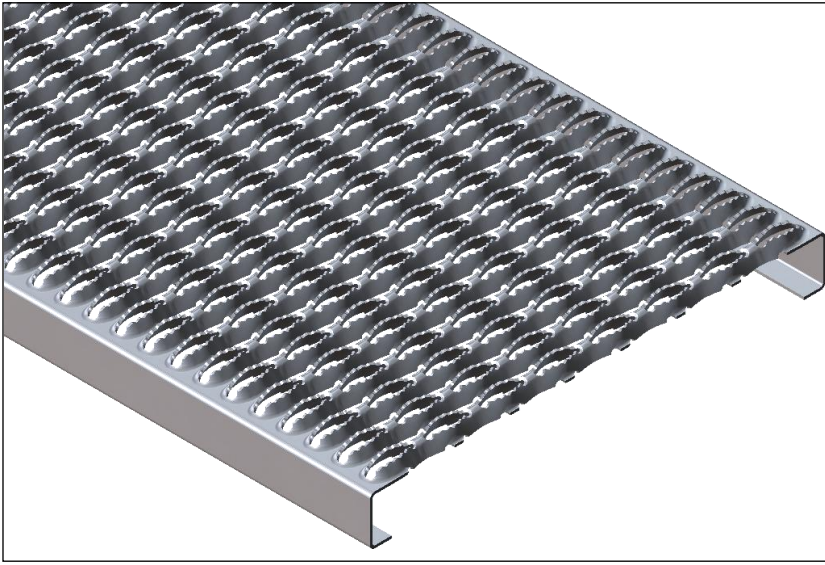
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																					
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'
ALUMINUM	12 GA .080"	1.50"	2.16	U	373	239	166	122	93	74	60	49	41	35	30	27	23	21	18	17	15	14	12	11	10	
				D	0.11	0.18	0.26	0.35	0.46	0.58	0.71	0.86	1.03	1.21	1.40	1.61	1.83	2.07	2.32	2.58	2.86	3.15	3.46	3.78	4.12	
				C	292	233	194	167	146	130	117	106	97	90	83	78	73	69	65	61	58	56	53	51	49	
		2.00"	2.26	U	424	271	188	138	106	84	68	56	47	40	35	30	27	23	21	19	17	15	14	13	12	
				D	0.09	0.14	0.20	0.28	0.36	0.46	0.56	0.68	0.81	0.95	1.10	1.26	1.44	1.62	1.82	2.03	2.25	2.48	2.72	2.97	3.24	
				C	331	265	221	189	166	147	133	120	110	102	95	88	83	78	74	70	66	63	60	58	55	
		2.50"	2.35	U	582	373	259	190	146	115	93	77	65	55	48	41	36	32	29	26	23	21	19	18	16	15
				D	0.08	0.12	0.17	0.24	0.31	0.39	0.48	0.58	0.69	0.82	0.95	1.09	1.24	1.39	1.56	1.74	1.93	2.13	2.34	2.55	2.78	
				C	455	364	303	260	228	202	182	165	152	140	130	121	114	107	101	96	91	87	83	79	76	
		3.00"	2.45	U	678	434	301	221	169	134	108	90	75	64	55	48	42	38	33	30	27	25	22	21	19	
				D	0.06	0.09	0.13	0.17	0.22	0.28	0.35	0.42	0.51	0.59	0.69	0.79	0.90	1.01	1.14	1.27	1.40	1.55	1.70	1.86	2.02	
				C	530	424	353	303	265	235	212	193	177	163	151	141	132	125	118	112	106	101	96	92	88	
ALUMINUM	10 GA .100"	1.50"	2.68	U	358	229	159	117	90	71	57	47	40	34	29	25	22	20	18	16	14	13	12	11	10	
				D	0.13	0.21	0.30	0.41	0.54	0.68	0.84	1.02	1.21	1.42	1.65	1.89	2.15	2.43	2.72	3.03	3.36	3.71	4.07	4.45	4.84	
				C	280	224	187	160	140	124	112	102	93	86	80	75	70	66	62	59	56	53	51	49	47	
		2.00"	2.80	U	533	341	237	174	133	105	85	70	59	50	44	38	33	30	26	24	21	19	18	16	15	
				D	0.09	0.15	0.21	0.29	0.38	0.48	0.59	0.72	0.85	1.00	1.16	1.33	1.52	1.71	1.92	2.14	2.37	2.61	2.87	3.14	3.41	
				C	417	333	278	238	208	185	167	151	139	128	119	111	104	98	93	88	83	79	76	72	69	
		2.50"	2.92	U	772	494	343	252	193	153	124	102	86	73	63	55	48	43	38	34	31	28	26	23	21	
				D	0.08	0.13	0.18	0.25	0.32	0.41	0.50	0.61	0.73	0.85	0.99	1.14	1.29	1.46	1.64	1.82	2.02	2.23	2.44	2.67	2.91	
				C	603	483	402	345	302	268	241	219	201	186	172	161	151	142	134	127	121	115	110	105	101	
		3.00"	3.05	U	1015	650	451	332	254	201	162	134	113	96	83	72	63	56	50	45	41	37	34	31	28	
				D	0.07	0.11	0.16	0.21	0.28	0.35	0.43	0.53	0.63	0.73	0.85	0.98	1.11	1.25	1.41	1.57	1.74	1.92	2.10	2.30	2.50	
				C	793	635	529	453	397	353	317	288	264	244	227	212	198	187	176	167	159	151	144	138	132	
3.00"	3.05	U	1015	650	451	332	254	201	162	134	113	96	83	72	63	56	50	45	41	37	34	31	28			
		D	0.07	0.11	0.16	0.21	0.28	0.35	0.43	0.53	0.63	0.73	0.85	0.98	1.11	1.25	1.41	1.57	1.74	1.92	2.10	2.30	2.50			
		C	793	635	529	453	397	353	317	288	264	244	227	212	198	187	176	167	159	151	144	138	132			

These load tables are based on physical test results and are provided for reference only. Safe use and installation of grating products involve factors beyond testing conditions. Users should consult a licensed engineer and exercise independent judgment. This technical information is for evaluation by skilled professionals, and any use is at their own discretion and risk. IGP assumes no responsibility or liability for outcomes or damages resulting from improper assessment or use of grating products.



## 18-3/4" WIDTH – 8 DIAMOND



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")
		12 ga (.105")
GALV	ASTM 653 Galvanized G90	14 ga (.075")
		12 ga (.105")
ALUMINUM	5052-H32	12 ga (.080")
		10 ga (.100")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

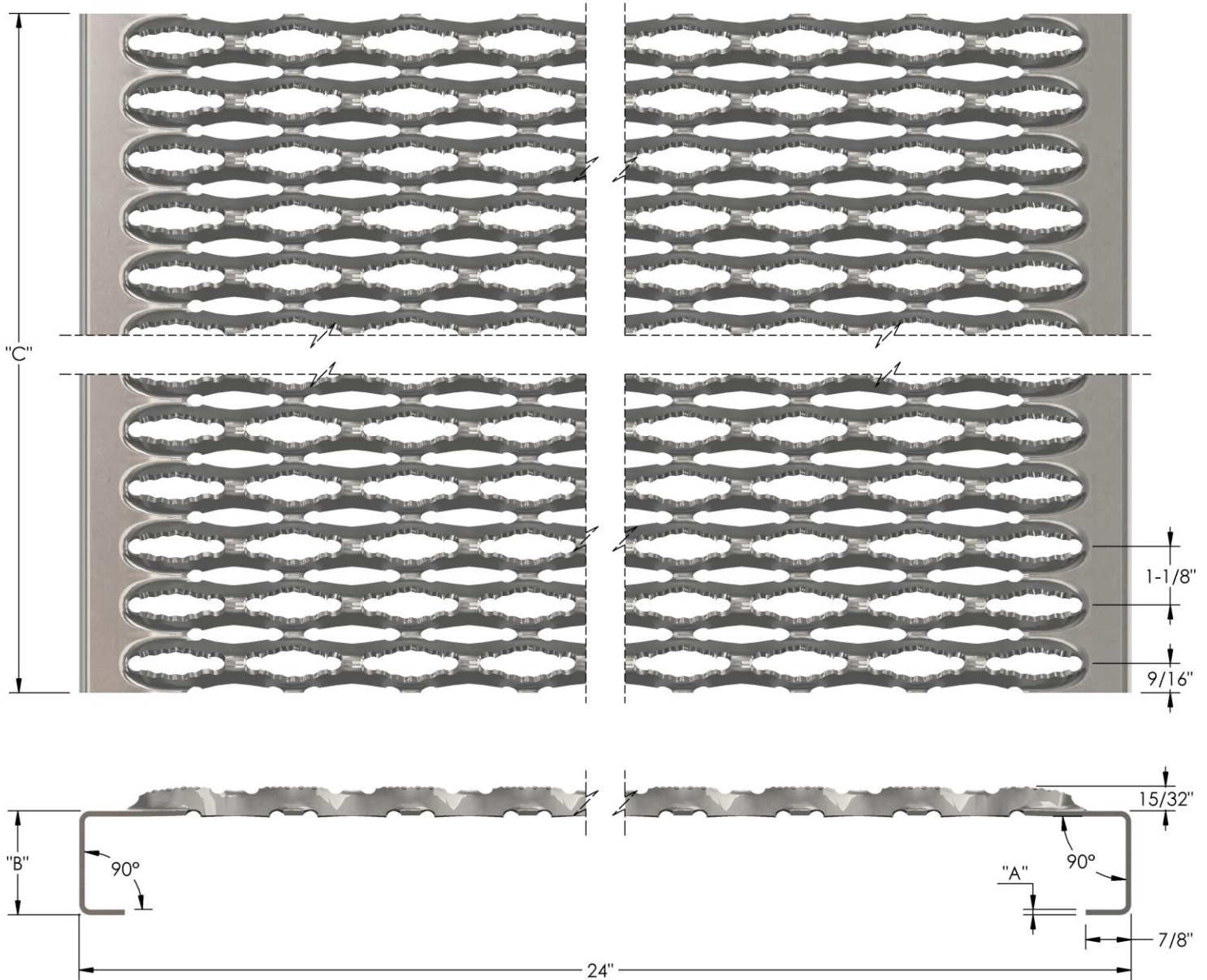
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																							
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'		
HRPO & GALVANIZED STEEL	14 GA .0747"	1.50"	5.68	U	422	270	188	138	106	83	68	56	47	40	34	30	26	23	21	19	17	15	14	13	12			
				D	0.07	0.11	0.16	0.22	0.28	0.36	0.45	0.54	0.64	0.75	0.87	1.00	1.14	1.29	1.44	1.61	1.78	1.96	2.16	2.36	2.56			
				C	330	264	220	189	165	147	132	120	110	102	94	88	83	78	73	69	66	63	60	57	55			
		D	0.03	0.04	0.06	0.09	0.11	0.14	0.18	0.22	0.26	0.30	0.35	0.40	0.46	0.51	0.58	0.64	0.71	0.79	0.86	0.94	1.03					
		2.00"	5.93	U	578	370	257	189	144	114	92	76	64	55	47	41	36	32	29	26	23	21	19	17	16			
				D	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.38	0.45	0.53	0.61	0.70	0.80	0.90	1.01	1.13	1.25	1.38	1.51	1.65	1.80			
	C			452	361	301	258	226	201	181	164	151	139	129	120	113	106	100	95	90	86	82	79	75				
	D	0.02	0.03	0.05	0.06	0.08	0.10	0.13	0.15	0.18	0.21	0.25	0.28	0.32	0.36	0.41	0.45	0.50	0.55	0.61	0.66	0.72						
	2.50"	6.19	U	868	555	386	283	217	171	139	115	96	82	71	62	54	48	43	38	35	31	29	26	24				
D			0.04	0.06	0.09	0.12	0.16	0.20	0.24	0.30	0.35	0.41	0.48	0.55	0.62	0.71	0.79	0.88	0.98	1.08	1.18	1.29	1.41					
C			678	542	452	387	339	301	271	247	226	209	194	181	170	160	151	143	136	129	123	118	113					
D	0.02	0.02	0.04	0.05	0.06	0.08	0.10	0.12	0.14	0.16	0.19	0.22	0.25	0.28	0.32	0.35	0.39	0.43	0.47	0.52	0.56							
HRPO & GALVANIZED STEEL	12 GA .1046"	1.50"	7.88	U	538	344	239	176	134	106	86	71	60	51	44	38	34	30	27	24	22	20	18	15				
				D	0.07	0.11	0.16	0.22	0.28	0.36	0.44	0.53	0.63	0.74	0.86	0.99	1.13	1.27	1.43	1.59	1.76	1.94	2.13	2.33	2.54			
				C	420	336	280	240	210	187	168	153	140	129	120	112	105	99	93	88	84	80	76	73	70			
		D	0.03	0.04	0.06	0.09	0.11	0.14	0.18	0.21	0.25	0.30	0.35	0.40	0.45	0.51	0.57	0.64	0.70	0.78	0.85	0.93	1.01					
		2.00"	8.24	U	812	520	361	265	203	160	130	107	90	77	66	58	51	45	40	36	32	29	27	25	23			
				D	0.08	0.12	0.17	0.24	0.31	0.39	0.49	0.59	0.70	0.82	0.95	1.09	1.24	1.40	1.57	1.75	1.94	2.14	2.35	2.57	2.79			
	C			635	508	423	363	317	282	254	231	212	195	181	169	159	149	141	134	127	121	115	110	106				
	D	0.03	0.05	0.07	0.10	0.12	0.16	0.19	0.23	0.28	0.33	0.38	0.44	0.50	0.56	0.63	0.70	0.78	0.86	0.94	1.03	1.12						
	2.50"	8.59	U	1096	702	487	358	274	217	175	145	122	104	89	78	69	61	54	49	44	40	36	33	30				
			D	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.64	0.72	0.81	0.91	1.00	1.11	1.21	1.33	1.44				
			C	857	685	571	489	428	381	343	311	286	264	245	228	214	202	190	180	171	163	156	149	143				
	D	0.02	0.03	0.04	0.05	0.06	0.08	0.10	0.12	0.14	0.17	0.20	0.23	0.26	0.29	0.32	0.36	0.40	0.44	0.49	0.53	0.58						
3.00"	8.95	U	1503	962	668	491	376	297	241	199	167	142	123	107	94	83	74	67	60	55	50	45	42					
		D	0.03	0.05	0.07	0.10	0.13	0.16	0.20	0.24	0.29	0.33	0.39	0.45	0.51	0.57	0.64	0.72	0.79	0.87	0.96	1.05	1.14					
		C	1175	940	783	671	587	522	470	427	392	361	336	313	294	276	261	247	235	224	214	204	196					
D	0.01	0.02	0.03	0.04	0.05	0.06	0.08	0.10	0.11	0.13	0.16	0.18	0.20	0.23	0.26	0.29	0.32	0.35	0.38	0.42	0.46							

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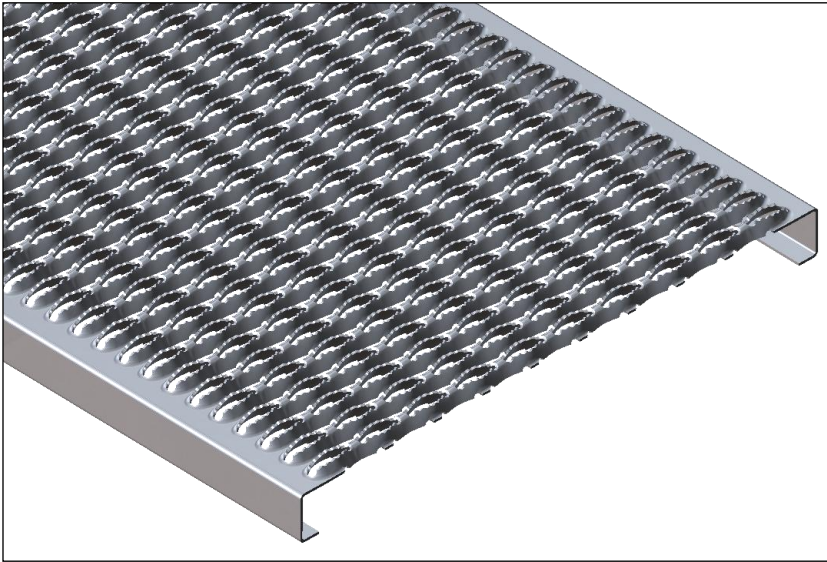


## 24.00" WIDTH – 10 DIAMOND



Material		Thickness	Height	Length
Type	Description	"A"	"B"	"C"
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")	1-1/2"	121-1/2"
		12 ga (.105")		
GALV	ASTM 653 Galvanized G90	14 ga (.075")	2"	144"
		12 ga (.105")		
ALUMINUM	5052-H32	12 ga (.080")	Custom	Custom
		10 ga (.100")		
STAINLESS	304 Stainless Steel	16 ga (.060")		

## 24.00" WIDTH – 10 DIAMOND



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")
		12 ga (.105")
GALV	ASTM 653 Galvanized G90	14 ga (.075")
		12 ga (.105")
ALUMINUM	5052-H32	12 ga (.080")
		10 ga (.100")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

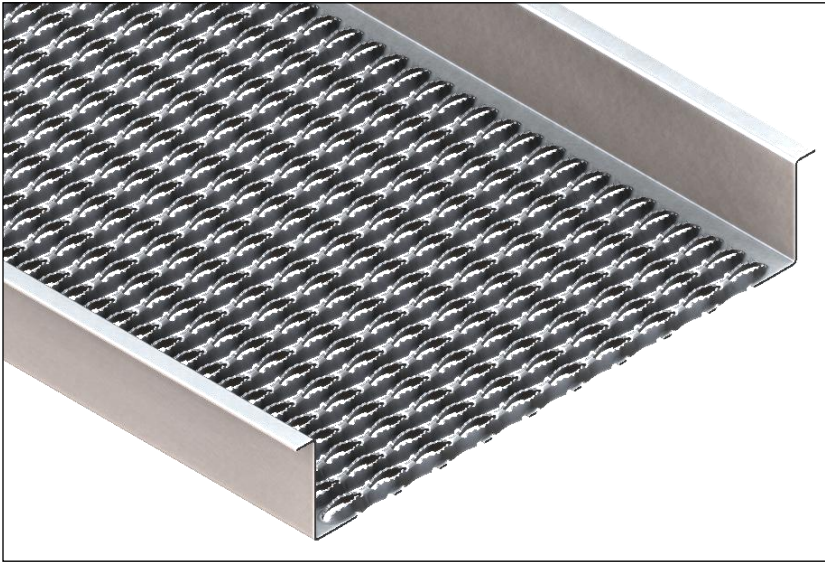
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																							
TYPE	GAUGE				DEFL	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'		
HRPO & GALVANIZED STEEL	14 GA .074"	2.00"	7.23	U	545	348	242	178	136	108	87	72	61	52	44	39	34	30	27	24	22	20	18	16	15			
				D	0.04	0.07	0.10	0.14	0.18	0.23	0.28	0.34	0.40	0.47	0.54	0.63	0.71	0.80	0.90	1.00	1.11	1.23	1.35	1.47	1.60			
				C	545	436	363	311	272	242	218	198	182	168	156	145	136	128	121	115	109	104	99	95	91			
		D	0.02	0.03	0.04	0.05	0.07	0.09	0.11	0.13	0.16	0.19	0.22	0.25	0.28	0.32	0.36	0.40	0.44	0.49	0.54	0.59	0.64					
		D	0.03	0.04	0.06	0.08	0.10	0.13	0.16	0.19	0.23	0.26	0.31	0.35	0.40	0.45	0.51	0.57	0.63	0.69	0.76	0.83	0.90					
		C	761	608	507	435	380	338	304	277	254	234	217	203	190	179	169	160	152	145	138	132	127					
	D	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.16	0.18	0.20	0.23	0.25	0.28	0.30	0.33	0.36						
	12 GA .1046"	2.00"	10.05	U	662	423	294	216	165	131	106	87	74	63	54	47	41	37	33	29	26	24	22	20	18			
				D	0.04	0.07	0.10	0.14	0.18	0.23	0.28	0.34	0.40	0.47	0.55	0.63	0.71	0.80	0.90	1.00	1.11	1.23	1.35	1.47	1.60			
				C	662	529	441	378	331	294	265	241	221	204	189	176	165	156	147	139	132	126	120	115	110			
		D	0.02	0.03	0.04	0.05	0.07	0.09	0.11	0.13	0.16	0.19	0.22	0.25	0.28	0.32	0.36	0.40	0.45	0.49	0.54	0.59	0.64					
		D	0.03	0.05	0.07	0.10	0.13	0.16	0.20	0.24	0.29	0.34	0.39	0.45	0.51	0.57	0.64	0.72	0.79	0.88	0.96	1.05	1.14					
C		1280	1024	853	731	640	569	512	465	427	394	366	341	320	301	284	269	256	244	233	223	213						
D	0.01	0.02	0.03	0.04	0.05	0.06	0.08	0.10	0.11	0.13	0.16	0.18	0.20	0.23	0.26	0.29	0.32	0.35	0.38	0.42	0.46							

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## 24.00" WIDTH – 10 DIAMOND



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	14 ga (.075")
		12 ga (.105")
GALV	ASTM 653 Galvanized G90	14 ga (.075")
		12 ga (.105")
ALUMINUM	5052-H32	12 ga (.080")
		10 ga (.100")
STAINLESS	304 Stainless Steel	16 ga (.060")

Safe allowable loads and deflections: U = Uniform Load (lbs/ft<sup>2</sup>) C = Concentrated Load (lbs) D = Deflection (inches)

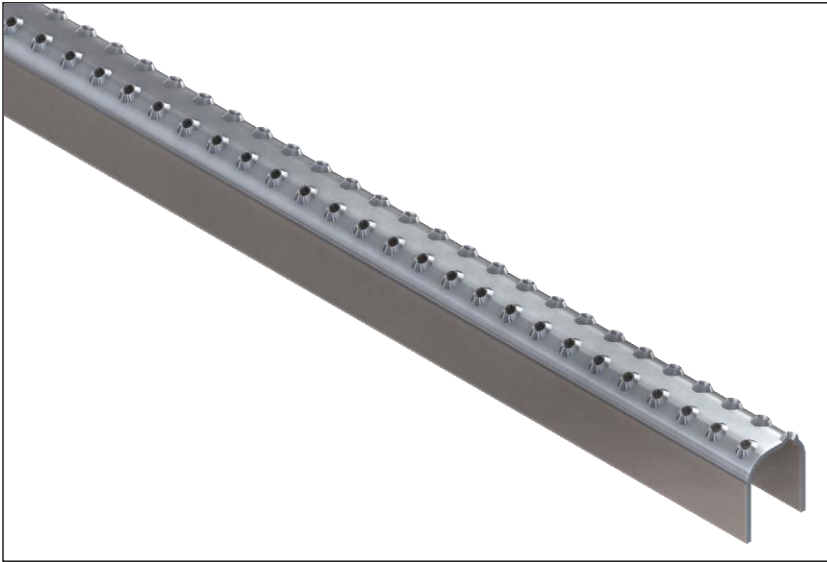
Loads to the left of the black line (green) produce a deflection of 0.250" or less under a uniform load of 100 lbs/ft<sup>2</sup> for the safety and comfort of pedestrian traffic.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN																							
TYPE	GAUGE				DEFL.	2'	2'-6"	3'	3'-6"	4'	4'-6"	5'	5'-6"	6'	6'-6"	7'	7'-6"	8'	8'-6"	9'	9'-6"	10'	10'-6"	11'	11'-6"	12'		
HRPO & GALVANIZED STEEL	14 GA .0747"	4.50"	8.60	U	1121	717	498	366	280	221	179	148	125	106	91	80	70	62	55	50	45	41	37	34	31			
				D	0.01	0.02	0.03	0.04	0.05	0.07	0.08	0.10	0.12	0.14	0.16	0.18	0.21	0.23	0.26	0.29	0.32	0.36	0.39	0.43	0.46			
				C	1121	896	747	640	560	498	448	407	374	345	320	299	280	264	249	236	224	213	204	195	187			
				D	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.12	0.13	0.14	0.16	0.17	0.19				
	12 GA .1046"	4.50"	11.99	U	1835	1174	815	599	459	362	294	243	204	174	150	130	115	102	91	81	73	67	61	55	51			
				D	0.01	0.02	0.03	0.05	0.06	0.08	0.09	0.11	0.13	0.16	0.18	0.21	0.24	0.27	0.30	0.33	0.37	0.41	0.45	0.49	0.53			
C				1835	1468	1223	1048	917	815	734	667	612	564	524	489	459	432	408	386	367	349	334	319	306				
D				0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.08	0.10	0.11	0.12	0.13	0.15	0.16	0.18	0.20	0.21				

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## 1-1/4" WIDTH – 2 ROW



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALVANIZED STEEL	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM*	5052-H32	8 ga (.125")
STAINLESS*	304/316 Stainless Steel	16 ga (.060")
		14 ga (.075")

\*Special order. Please consult Sales for lead time and pricing.

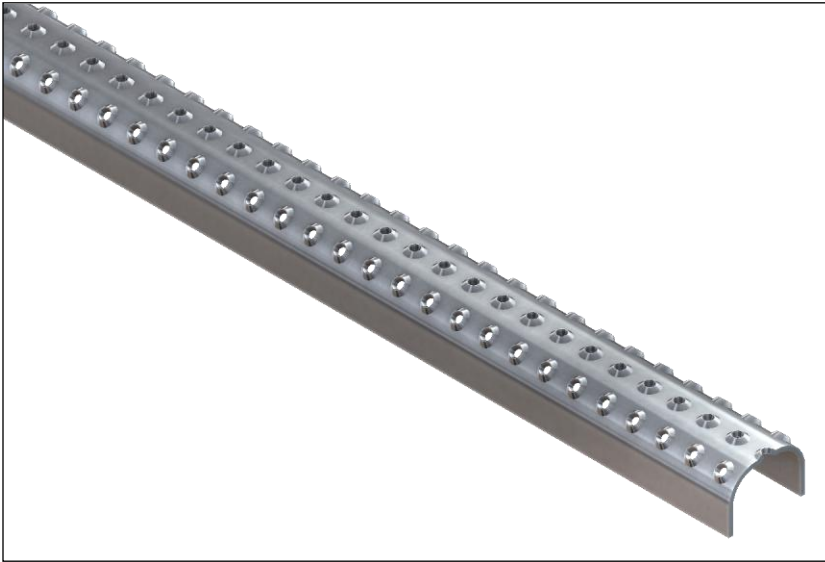
### Safe allowable loads and deflections: C = Concentrated Load (lbs) D = Deflection (inches)

Loads to the left of the black line (green) adhere to OSHA Ladder Rung Requirements [29 CFR 1910.23](#) (general industry) and [29 CFR 1926.1053](#) (construction) where each rung must support 250 lbs. of concentrated load at midspan without failure or permanent deformation. A minimum safety factor of 2.0 is used in these safe load calculations.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN											
TYPE	GAUGE				DEFL	6"	12"	16"	18"	20"	24"	30"	36"	42"	48"	54"
ALUMINUM	8 GA .125"	1.50"	0.56	C	1453	726	545	484	436	363	291	242	208	182	161	145
				D	0.00	0.01	0.01	0.02	0.02	0.03	0.05	0.07	0.09	0.12	0.15	0.18
HRPO & GALVANIZED STEEL	13 GA .0897" 11 GA .1196"	1.50"	1.00 1.35	C	1706	853	640	569	512	427	341	284	244	213	190	171
				D	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.07	0.08	0.10
STAINLESS STEEL	16 GA .060" 14 GA .075"	1.50"	0.67 0.84	C	1003	502	376	334	301	251	201	167	143	125	111	100
				D	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.06	0.07	0.09
				C	1245	622	467	415	373	311	249	207	178	156	138	124
				D	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.06	0.07	0.09

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## 1-5/8" WIDTH – 3 ROW



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALVANIZED STEEL	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM*	5052-H32	8 ga (.125")
STAINLESS*	304/316 Stainless Steel	16 ga (.060")
		14 ga (.075")

\*Special order. Please consult Sales for lead time and pricing.

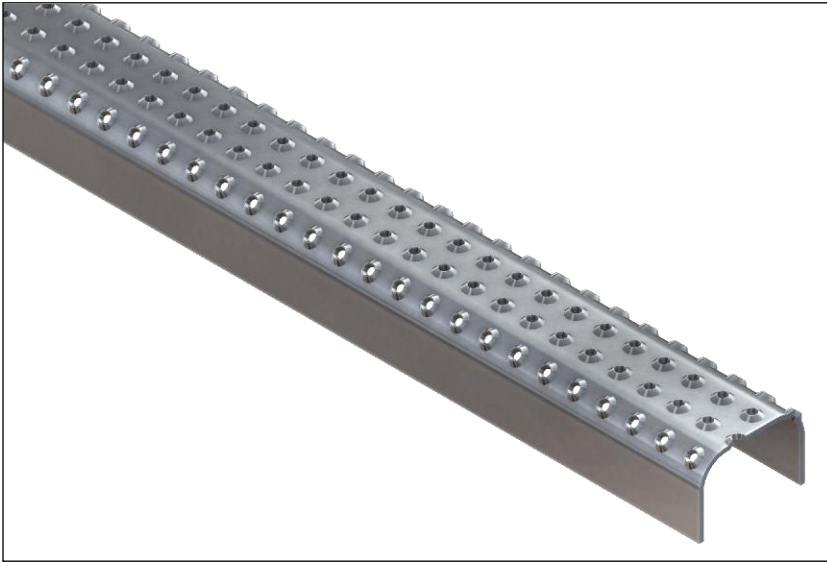
### Safe allowable loads and deflections: C = Concentrated Load (lbs) D = Deflection (inches)

Loads to the left of the black line (green) adhere to OSHA Ladder Rung Requirements [29 CFR 1910.23](#) (general industry) and [29 CFR 1926.1053](#) (construction) where each rung must support 250 lbs. of concentrated load at midspan without failure or permanent deformation. A minimum safety factor of 2.0 is used in these safe load calculations.

MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN											
TYPE	GAUGE				DEFL	6"	12"	16"	18"	20"	24"	30"	36"	42"	48"	54"
ALUMINUM	8 GA .125"	1.125"	0.50	C	907	454	340	302	272	227	181	151	130	113	101	91
				D	0.00	0.01	0.02	0.02	0.02	0.04	0.06	0.08	0.11	0.14	0.18	0.22
HRPO & GALVANIZED STEEL	13 GA .0897" 11 GA .1196"	1.125"	1.00 1.35	C	1074	537	403	358	322	268	215	179	153	134	119	107
				D	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.04	0.06	0.08	0.10	0.12
STAINLESS STEEL	16 GA .060" 14 GA .075"	1.125"	0.67 0.84	C	635	317	238	212	190	159	127	106	91	79	71	63
				D	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.07	0.09	0.11
				C	786	393	295	262	236	197	157	131	112	98	87	79
				D	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.07	0.09	0.11

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## 2-1/4" WIDTH – 4 ROW



Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALVANIZED STEEL	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM*	5052-H32	8 ga (.125")
STAINLESS*	304/316 Stainless Steel	16 ga (.060")
		14 ga (.075")

\*Special order. Please consult Sales for lead time and pricing.

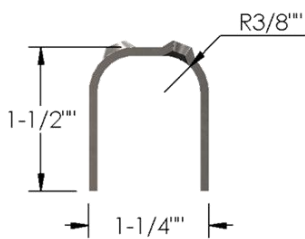
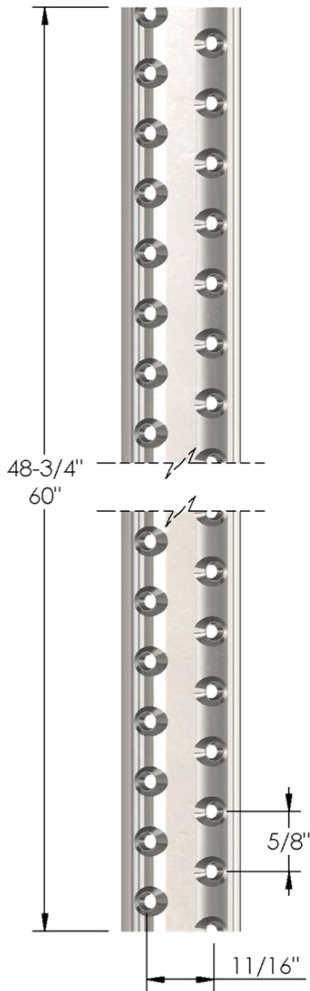
### Safe allowable loads and deflections: C = Concentrated Load (lbs) D = Deflection (inches)

Loads to the left of the black line (green) adhere to OSHA Ladder Rung Requirements 29 CFR 1910.23 (general industry) and 29 CFR 1926.1053 (construction) where each rung must support 250 lbs. of concentrated load at midspan without failure or permanent deformation. A minimum safety factor of 2.0 is used in these safe load calculations.

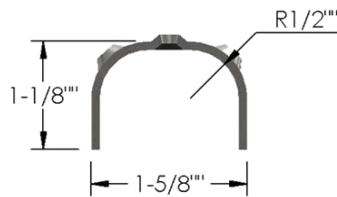
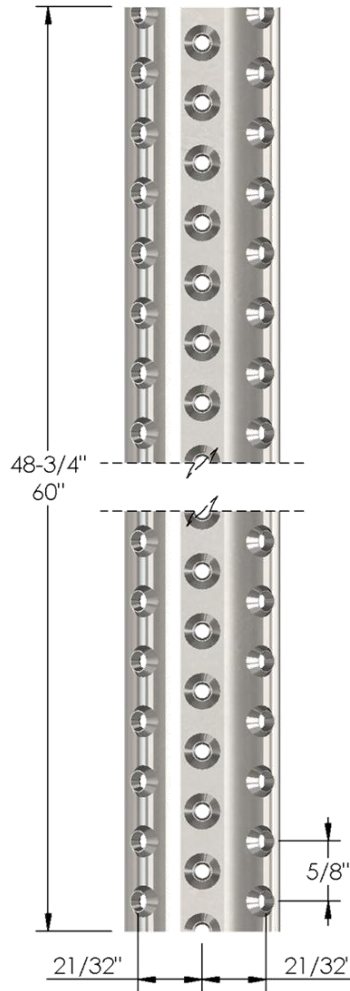
MATERIAL		CHANNEL HEIGHT	WEIGHT LBS./LF	LOAD	CLEAR SPAN											
TYPE	GAUGE				DEFL	6"	12"	16"	18"	20"	24"	30"	36"	42"	48"	54"
ALUMINUM	8 GA .125"	1.50"	0.71	C	1740	870	653	580	522	435	348	290	249	218	193	174
				D	0.00	0.01	0.01	0.01	0.02	0.03	0.04	0.06	0.08	0.10	0.13	0.16
HRPO & GALVANIZED STEEL	13 GA .0897"	1.50"	1.41	C	2048	1024	768	683	614	512	410	341	293	256	228	205
				D	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.06	0.07	0.09
	11 GA .1196"	1.50"	1.90	C	2685	1342	1007	895	805	671	537	447	384	336	298	268
				D	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.06	0.07	0.09
STAINLESS STEEL	16 GA .060"	1.50"	0.95	C	1207	604	453	402	362	302	241	201	172	151	134	121
				D	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.08
	14 GA .075"	1.50"	1.19	C	1496	748	561	499	449	374	299	249	214	187	166	150
				D	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.08

These load tables are based on physical test results and are provided for reference only. Safe use and installation of grating products involve factors beyond testing conditions. Users should consult a licensed engineer and exercise independent judgment. This technical information is for evaluation by skilled professionals, and any use is at their own discretion and risk. IGP assumes no responsibility or liability for outcomes or damages resulting from improper assessment or use of grating products.

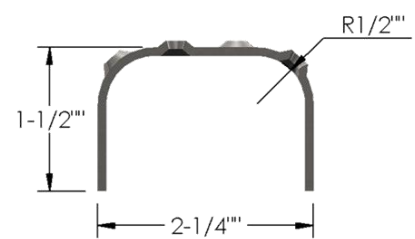
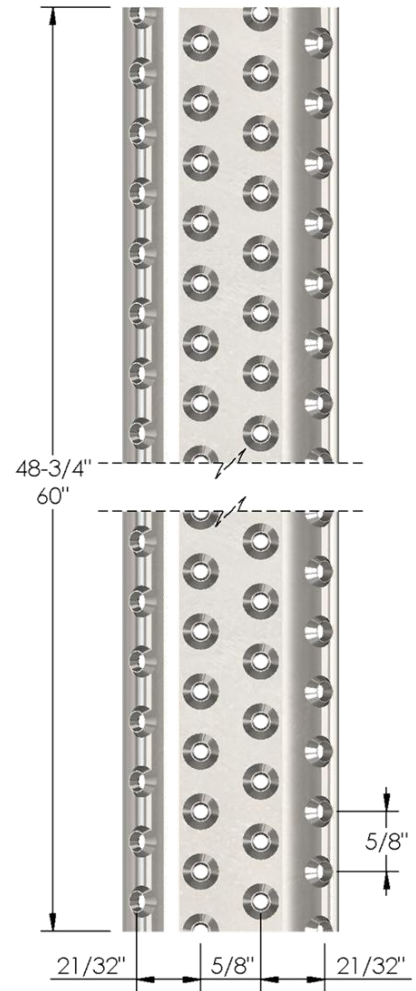
## 2-ROW



## 3-ROW



## 4-ROW



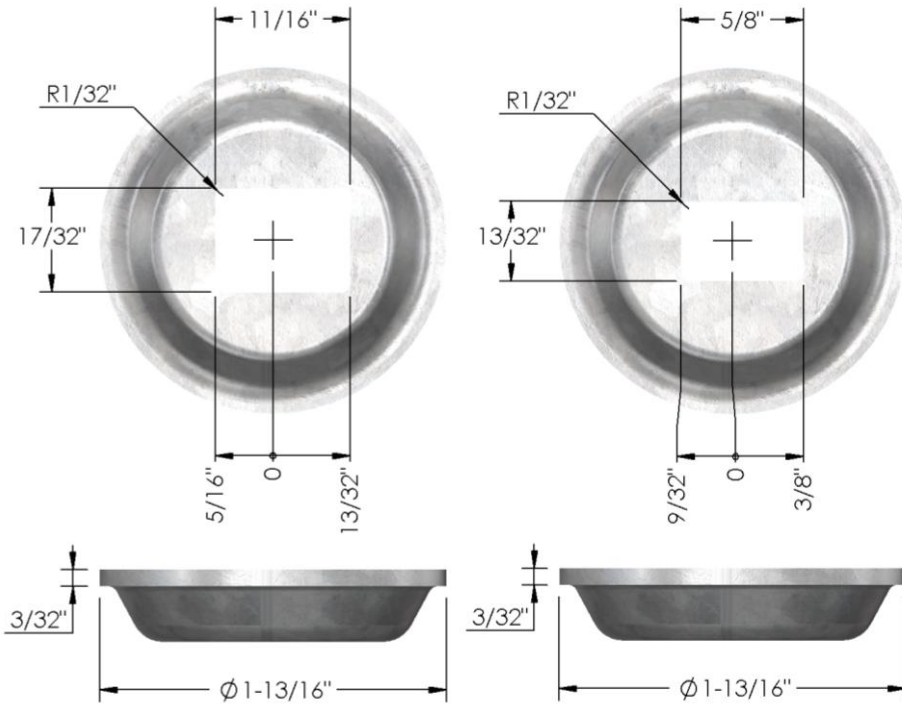
Material Selection		
Type	Description	Gauge
STEEL	Hot Rolled Pickled & Oiled	13 ga (.090")
		11 ga (.120")
GALVANIZED STEEL	ASTM 653 Galvanized G90	13 ga (.090")
		11 ga (.120")
ALUMINUM*	5052-H32	8 ga (.125")
STAINLESS*	304/316 Stainless Steel	16 ga (.060")
		14 ga (.075")

\*Special order. Please consult Sales for lead time and pricing.

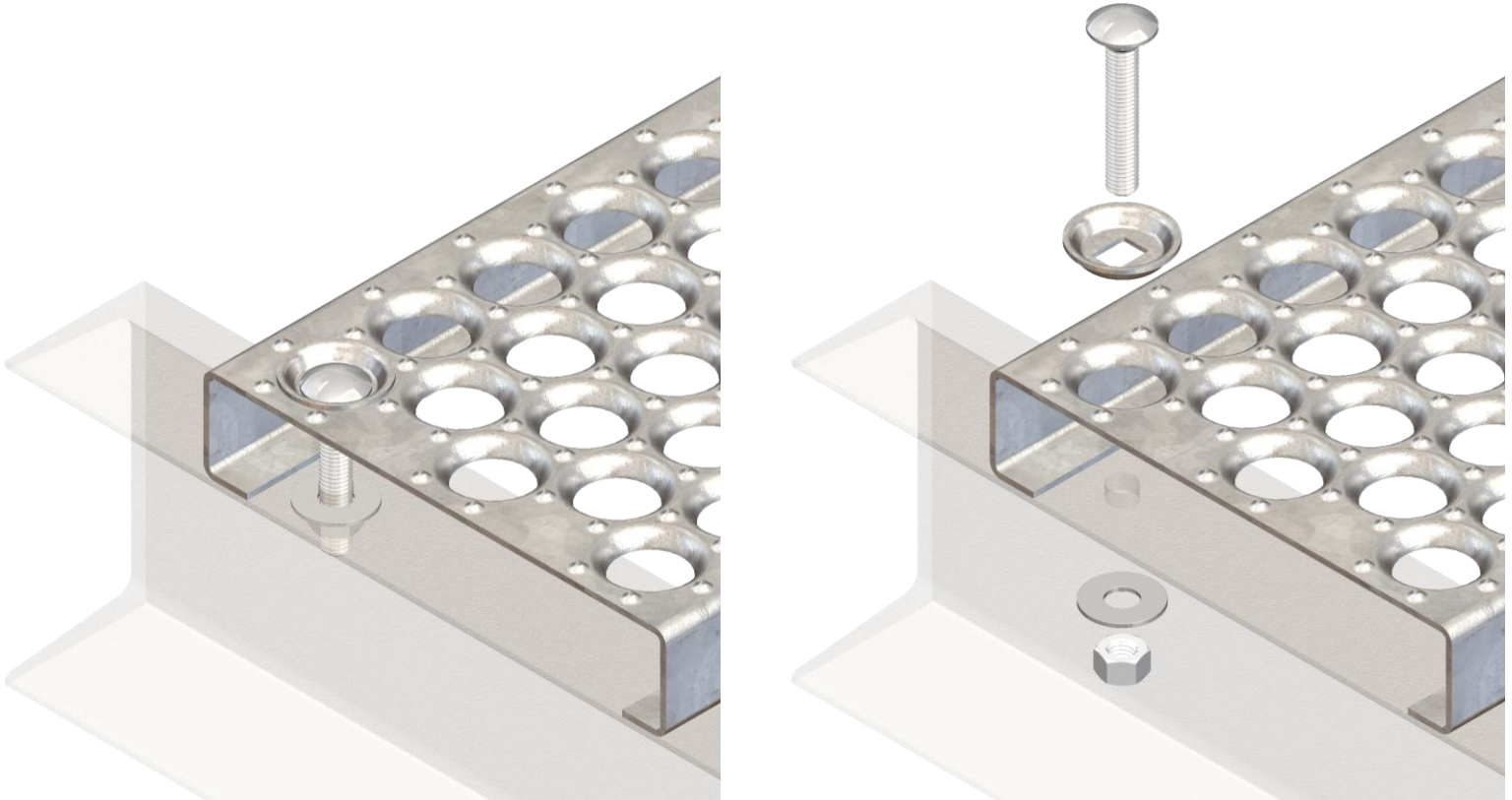


P/N **IGP-0004A**  
Carriage Bolt Seat, 1/2"

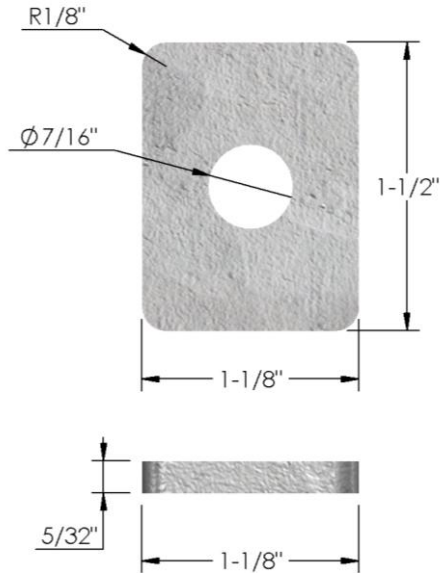
P/N **IGP-0004B**  
Carriage Bolt Seat, 3/8"



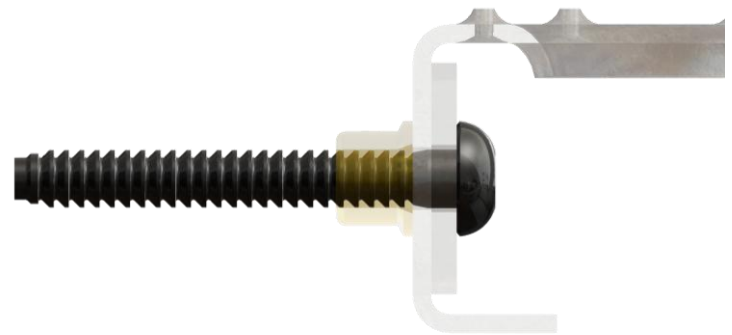
The **Carriage Bolt Seat** is a precision-stamped hardware component designed for securing our Whole Grip™ grating using carriage bolts. It fits securely into the grating's extruded hole and features a rectangular bolt opening that allows for slight lateral adjustment during installation. This flexibility helps align with holes in C-Channels or other structural supports, ensuring a snug, reliable fit. Each Bolt Seat is manufactured from galvanized 13-gauge steel for enhanced corrosion resistance and long-term durability. When properly assembled, the carriage bolt head sits flush with or below the grating surface, minimizing the risk of trip hazards and preventing interference with pedestrian traffic.



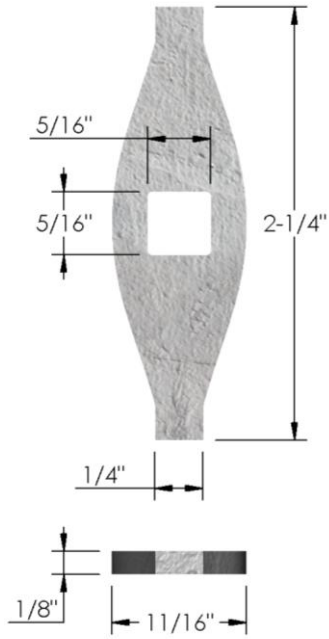
P/N **IGP-0003**  
**Bolt-Lock Washer**



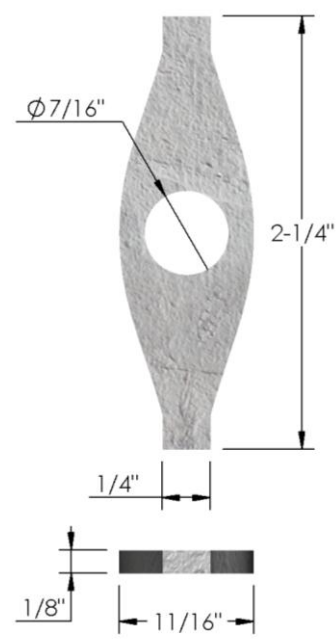
Our **Bolt-Lock Washer** is a heavy-duty reinforcement washer designed specifically for grating applications in the rail industry. Commonly paired with swaged fastener systems like the Huk Bolt (not affiliated), it serves two critical functions: it reinforces the grating's sidewall at the mounting point, and it acts as a standoff to accommodate the cylindrical neck of the bolt between the head and the threaded section. The thick profile ensures a secure, vibration-resistant hold and prevents deformation or pull-through under load.



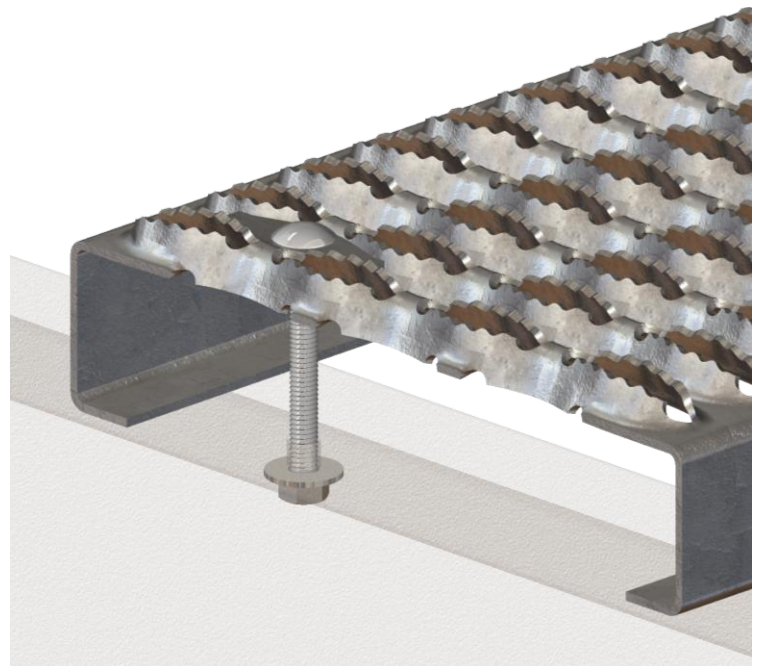
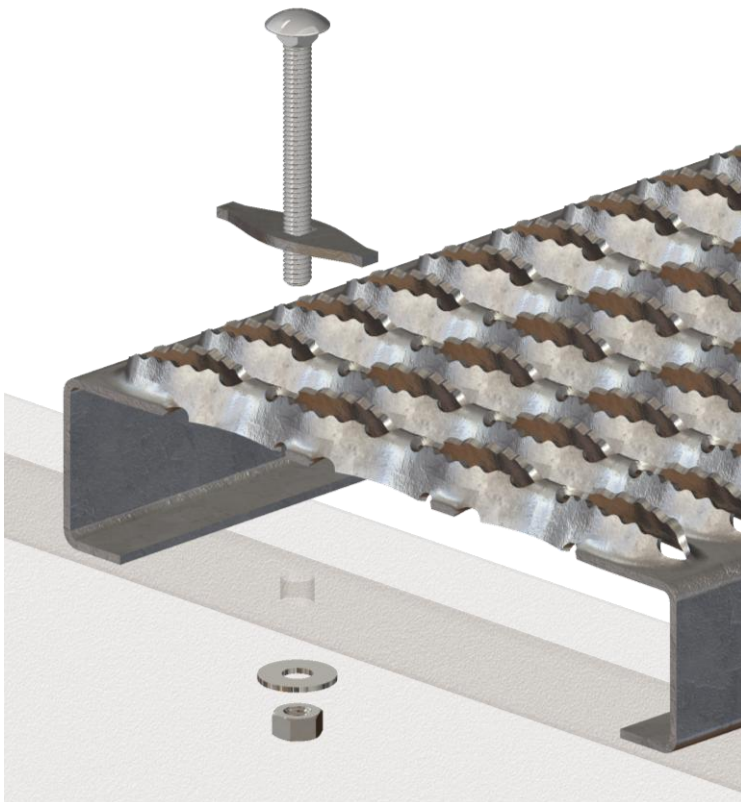
P/N **IGP-0007**  
Diamond Washer,  
5/16" Carriage Bolt



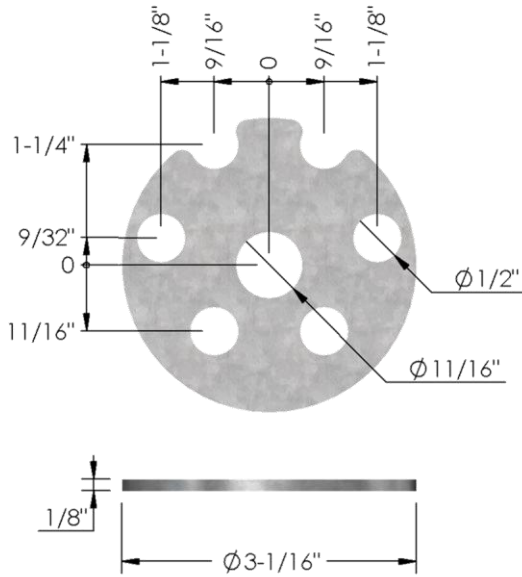
P/N **IGP-0007A**  
Diamond Washer,  
3/8" Bolt



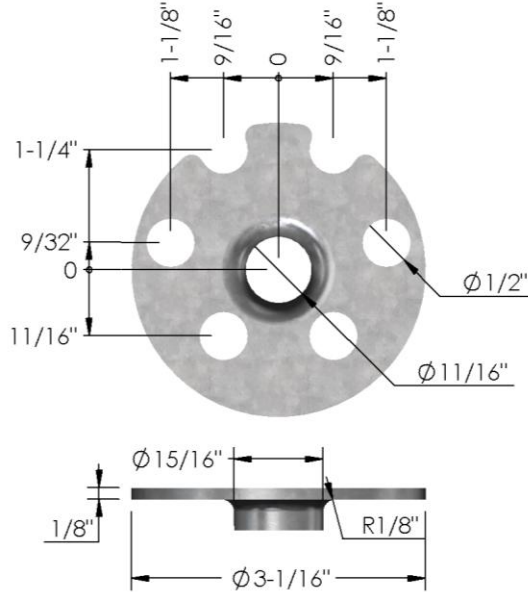
The **Diamond Washer** is a precision-stamped hardware component designed for securing our Gater Grip™ grating using 3/8" standard bolts or 5/16" carriage bolts. It fits securely into the grating's downward extruded diamond hole. Each Diamond Washer is manufactured from galvanized 11-gauge steel for enhanced corrosion resistance and long-term durability. When properly assembled, the carriage bolt head sits flush with or below the grating surface, minimizing the risk of trip hazards and preventing interference with pedestrian traffic.



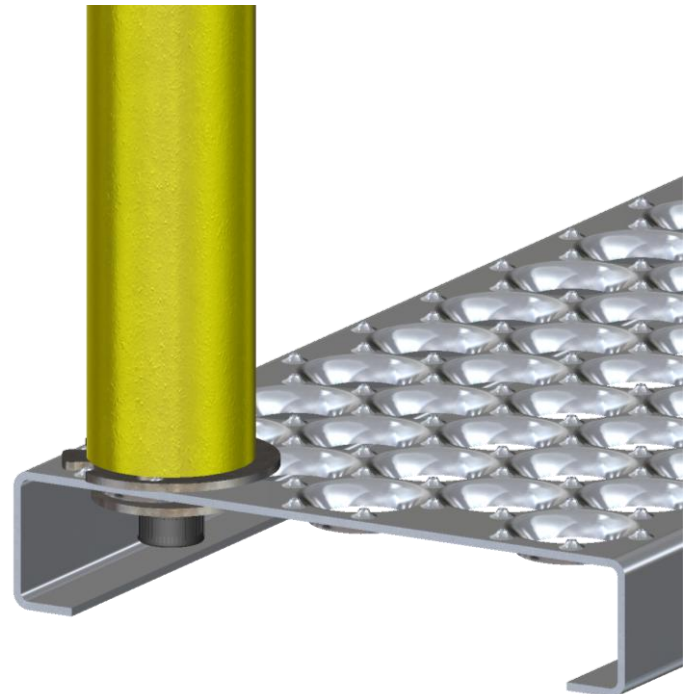
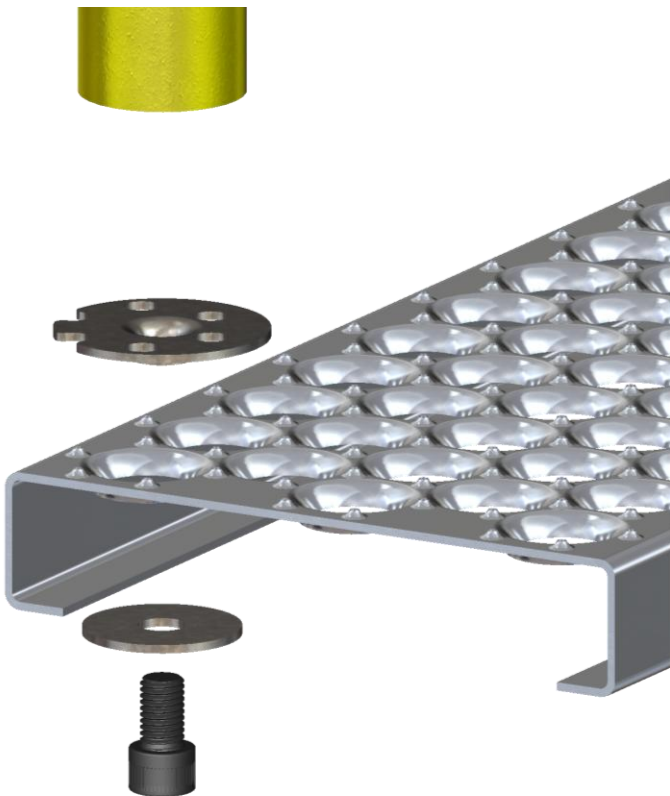
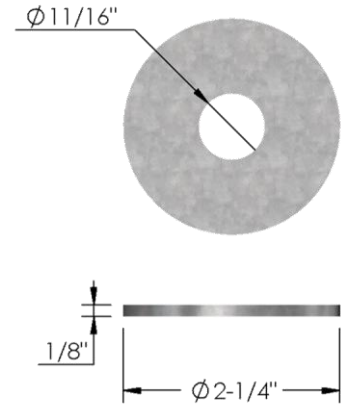
P/N **IGP-0001**  
Grab Handle Washer



P/N **IGP-0008**  
Grab Handle Washer,  
Extruded



P/N **IGP-0002**  
Flat Washer, 2-1/4"



# Safety starts where you step™



# Work List for Catalog

1. **Max Tread Sheets**
  1. Configuration Page
2. **Max Tread**
  1. Configuration Page
3. **Gater Grip**
  1. Configuration Page
  2. Add Diamond 2.25" length to 2D drawings
4. **Hardware**
  1. 3D Model
  2. Feature Page
  3. Configuration Page
  4. How-to-use hardware asm pictures
5. **Stair Treads**
  1. Gater Grip/Whole Grip
  2. Configuration Page
  3. Load Tables
  4. 2D drawings
6. **Max Tread Ladder Rungs**
  1. Feature Page
  2. Configuration Page
7. **Custom Grating**
  1. Programmable Round Hole
  2. Pie Section Round Hole
  3. Holes in it for airline luggage thing. Casket loading conveyors
8. **Smart Number System**
  1. Whole Grip & Gater Grip
9. **Create Vector-Based IGP Logo for Posters**
10. **Re-take Elias' Pictures with nicer boots**
11. **Traction/Slip Resistance**
12. **Other Grating Products**
  1. Grate-lock
  2. Heavy duty diamond
  3. Splice Plates