

Walcoom Corporation

SAFETY GRATING

Diamond-Strut Safety Grating



Diamond-Strut safety grating is made of carbon steel, stainless steel or aluminum by cold forming. It can be divided into three types: plank grating, stair treads and ladder rungs.

There are two types of surface: serrated and smooth. Serrated surface prevents people from falling. And smooth surface can be used in the situations where required smooth. In addition, diamond-shaped openings allow for drainage of fluids and debris.

Due to these excellent performances, diamond-strut safety grating is widely used as floor, walkway, stair treads and platform in industrial, civil and commercial buildings.

Feature

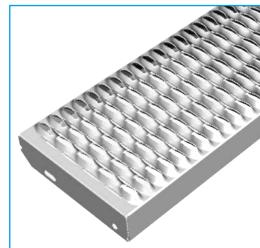
- High strength to weight ratio with high bearing capacity and light weight.
- Anti-slip, diamond opening and serrated surface for maximum slip resistance.
- Opening design allows for drainage of fluids and debris.
- Abrasive nosing is provided on request.
- Simple and fast installation, little maintenance after installation.
- Economical cost and long lifespan.

Specification

- Material
 - Pre-galvanized carbon steel: 12 and 14 gauge.
 - Aluminum 5052-H32: 10 and 12 gauge, 0.08" or 0.10" thickness.
- Surface treatment: Galvanized, hot rolling, pickling.
- Type
 - Diamond-Strut plank grating
 - Width
 - ▲ 2-Diamond: 4-3/4".
 - ▲ 4-Diamond: 9-1/2".
 - ▲ 8-Diamond: 18-3/4".
 - Channel depth: 1-1/2", 2", 2-1/2".
 - Length: 10', 12' or customized.

- HRPO carbon steel: 12 and 14 gauge.
- **Stainless steel 304 or 316L:** 16 gauge.

- ▲ 3-Diamond: 7".
- ▲ **5-Diamond:** 11-3/4".
- ▲ 10-Diamond: 24".



Diamond-Strut ladder rungs: standard, reverse.

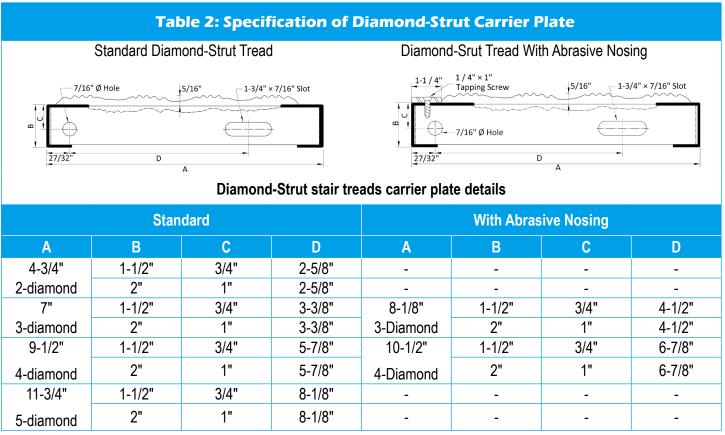
- Width: standard diamond 2-1/2", reverse diamond 1-5/8".
- Height: standard diamond 1-1/8", reverse diamond 1-5/8".
- Length: standard diamond 3', 4', 10', 12' or cut to size; reverse diamond 23-1/8".

	Table 1: Specification of Diamond-Strut Stair Treads								
				Channel	Diamond	Size			
ltem	Material	Span	Gauge	Channel Depth	Diamond Quantity	Standard	With Abrasive Nosing		
DSS-01					2	4-3/4"	-		
DSS-02			4.4	4.4.01	3	7"	8-1/8"		
DSS-03		up to 30"	14	1-1/2"	4	9-1/2"	10-1/2"		
DSS-04					5	11-3/4"	-		
DSS-05					2	4-3/4"	-		
DSS-06			4.4	4.4.01	3	7"	8-1/8"		
DSS-07		30" to 36"	14	1-1/2"	4	9-1/2"	10-1/2"		
DSS-08	-11				5	11-3/4"	-		
DSS-09	steel		14		2	4-3/4"	-		
DSS-10		36" to 42"		4 4 101	3	7"	8-1/8"		
DSS-11				1-1/2"	4	9-1/2"	10-1/2"		
DSS-12					5	11-3/4"	-		
DSS-13			14		2	4-3/4"	-		
DSS-14		42" to 48"		0"	3	7"	8-1/8"		
DSS-15				2"	4	9-1/2"	10-1/2"		
DSS-16					5	11-3/4"	-		
DSA-01				2"	2	4-3/4"	-		
DSA-02			0.08"		3	7"	8-1/8"		
DSA-03		up to 42"			4	9-1/2"	10-1/2"		
DSA-04	- 1				5	11-3/4"	-		
DSA-05	aluminum				2	4-3/4"	-		
DSA-06			0.40"	0"	3	7"	8-1/8"		
DSA-07		up to 48"	0.10"	2"	4	9-1/2"	10-1/2"		
DSA-08					5	11-3/4"	-		
DSSS-01					2	4-3/4"	-		
DSSS-02		up to 20"	16	2"	3	7"	8-1/8"		
DSSS-03		up to 30"	16	2	4	9-1/2"	10-1/2"		
DSSS-04	stainless				5	11-3/4"	-		
DSSS-05	steel 316L				2	4-3/4"	-		
DSSS-06		up to 26"	16	2"	3	7"	-		
DSSS-07		up to 36"	16	2	4	9-1/2"	-		
DSSS-08					5	11-3/4"	-		

Catwalk.

Loading dock.

Building construction.



Note: Carrier plate material: steel, aluminum and stainless steel. Stainless steel not available for 2-Diamond or 3-Diamond widths.

Application

Diamond-strut safety grating is widely used as many things in industrial, civil and commercial buildings, such as:

• Walkway.

Floor.

Platform.

- Balcony.
- Mezzanine.

Stair treads

O-Grip Safety Grating

Ladder rung.

Ramp.

Mining.

- O-Grip safety grating can be divided into two types: O-grip plank grating and O-grip stair treads. It is a one-piece metal grating that consists of large recessed holes, each of large recessed hole is surrounded by multiple raised holes that provide maximum slip resistance.

In addition, large opening areas allow free flow of liquids, grease, mud, snow and other debris. At the same time, the round opening will prevent most tools and other dangerous items from falling down and protect the safety of walkers. So it is widely used as floor, slope, catwalk, platform, walkway and stair treads.

Feature

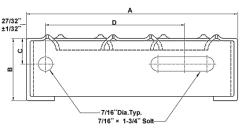
- High strength with high bearing capacity.
- Wear resistance, not easy to deform.
- Lightweight, easy to install and disassemble.
- Durable with longer lifespan.

Specification

- Material
 - Mill galvanized carbon steel: 11 and 13 gauge.
 - **Stainless steel type 316:** 16 gauge.
- **Surface treatment:** Galvanized, hot rolling, pickling.
- Thickness: 0.06", 0.08", 0.1".
- Туре
 - O-Grip plank grating
 - Width: 5" (2-Hole), 7" (3-Hole), 10" (5-Hole), 12" (6-Hole), 18" (10-Hole), 24" (13-Hole), 30" (16-Hole).
 - ◆ Length: 10' and 12'.
 - O-Grip stair treads
 - Channel depth: 1-1/2", 2".

◆ Length: 24", 30", 36".

Table 3: Specification of O-Grip Grating Carrier Plate



O-Grip grating carrier plate dimensions

Grating Width A	Channel Depth B	Dimension C	Dimension D	
5"	1-1/2"	3/4"	<u>)</u> "	
5	2"	1"	Ζ.	
7"	1-1/2"	3/4"	4"	
1	2"	1"	4	
10"	1-1/2"	3/4"	7"	
10	2"	1"	1	
12"	1-1/2"	3/4"	9"	
12	2"	1"		

- Providing slip resistance in all directions.
- Large opening structure permits free flow of liquids, grease, mud, snow and other debris.

- Aluminum alloy: 0.125".
- Available in HRPO plain steel and stainless steel 304.
 - Surface type: Smooth surface and serrated surface.

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Application

O-Grip safety grating can be used in such place:

- Gas based power plant.
- Stadium.
- Mining and construction industries.

It also can be used as such things:

- Floor.
- Platform.

- Slope.
- Walkway.

Traction-Grip Safety Grating

Traction-Grip safety grating is formed by cold forming process, and the surface of it is covered with hundreds of perforated buttons. These perforated buttons provide great friction between the foot and the grating surface to prevent pedestrians from slipping on wet or oily surfaces. It effectively resists most falls and slippage, making it a popular choice for industrial and commercial applications of walkways, floors, stair treads and platforms.

In addition, the perforated buttons also can be arranged in different patterns, you can choose according to the needs and preferences.

Feature

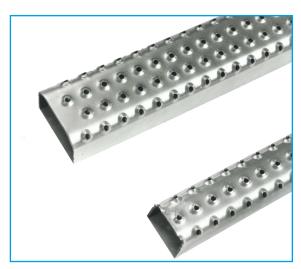
- High strength with high bearing capacity.
- Wear resistance, not easy to deform.
- Long lifespan requiring little maintenance.

Specification

- Material
 - Carbon steel: HRPO(hot rolled, pickled and oiled), 11, 13 and 16 gauge.
 - Galvanized steel: 11, 13 and 16 gauge.
 - Aluminum 5052-H32: 0.125".
 - Stainless steel 304 or 316L: 14 and 16 gauge.
- Surface treatment: Galvanized, hot rolling, pickling.
- Thickness: 0.06", 0.08", 0.1".
- Hole pattern

- Circular raised perforated buttons provide good slip resistance.
- Lightweight, complete with carrier plates in each end for easy installation.

- Large building. Bridge.
 - Catwalk.
 - Stair treads.



Safety Grating

Rectangular pattern

Width: 1-1/4", 1-5/8" and 2-1/4".

Length: 48", 60" or cut length.

Star pattern								
0	0	0	0	0	0			
0	0	0	0	0	0			
0	0	0	0	0	0			
0	0	0	0	0	0			
0	0	0	0	0	0			
0	0	0	0	0	0			
0	0	0	0	0	0			

OEM pattern								
0	۲	0	0	0	0			
0	0	00	ര	0	0			
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0	0	00	0	0	0			
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0	0	۲	0	0	0	۲	0
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0	0	0	0	0	0	0	0

Drain hole pattern ° © ©

0000000	00000000	00000000	00000000	00000000	0000000	00000000	00000000
000000000000000000000000000000000000000	000000000000000000000000000000000000000					000000000000000000000000000000000000000	000000000000000000000000000000000000000

Туре

Traction-Grip ladder rungs

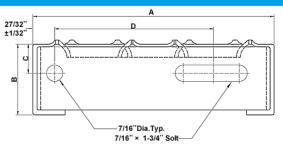
• Hole type: 2-hole, 3-hole and 4-hole.

- Depth: 1-1/2", 1-1/8" and 1-1/2".
- Traction-Grip plank grating
 - Width: 7", 10" and 12".
- Traction-Grip stair treads
 - Width: 7", 10" and 12".
- Channel depth: 2".
- Length: 30", 48" or any cut length.

Channel depth: 1-1/2" and 2".

Table 4: Specification of Traction-Grip Carrier Plate

Length: 120" and 140".



Traction-Grip stair treads carrier plate

	1			
Tread Width A (inch)	Depth B (inch)	Dimension C (inch)	Dimension D (inch)	
5"	1-1/2"	3/4") "	
5	2"	1"	Z	
7"	1-1/2"	3/4"	4"	
I	2"	1"	4	
10"	1-1/2"	3/4"	7"	
10	2"	1"		
12"	1-1/2"	3/4"	9"	
IΖ	2"	1"		

Application

Traction-Grip safety grating is widely used as such things:

- Ramp.
- Ladder rung.
- Platform.

- Stair treads.
- Drainage channel.

- Floor.
- Walkway.



Interlocking Safety Grating

Interlocking safety grating is made of carbon steel, stainless steel and aluminum. The surface of interlocking safety grating has long circular grooves, coupled with the interlocking structure, it is easy for installing and removing, saving the cost and time. In addition, interlocking safety grating has two surface types: serrated and smooth. Serrated surface ensures the safe walking surfaces in any weather. At the same time, the opening area allows rain, snow, soil and other debris to pass through. Interlocking safety grating is widely used as platform, stair treads, walkway, trench drainage and floor in industrial building.

Feature

- High strength and high bearing capacity.
- Do not accumulate rain, snow and dust.
- Durable and economical, the lifespan is long.

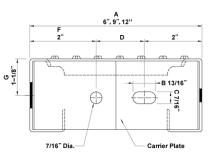
Specification

- Material
 - pre-galvanized carbon steel.
 - 5052-H32 mill finish aluminum.
- Surface treatment: Galvanized, hot rolling, pickling.
- Length: 6000 mm.
- Height (mm): 25, 40, 50, 75.

- Anti-slip to ensure that people are safe.
- Easy to install and disassemble.

- HRPO carbon steel.
- stainless steel 304 or 316.
- Surface type: Smooth surface and serrated surface.
- Width (mm): 150, 200, 250, 300.
- Thickness (mm): 1.5, 2.0, 2.5.

Table 5: Specification of Interlocking Safety Grating Carrier Plate



Interlocking safety grating carrier plate

ltem	A	D	F	G					
nem	Tread Width	Dimension	Dimension	Dimension					
	stair treads without nosing								
IGCP-1	6"	2"	2"	1-1/8"					
IGCP-2	9"	5"	2"	1-1/8"					
IGCP-3	12"	8"	2"	1-1/8"					
		stair treads with nosir	ng						
IGPN-1	7-1/2"	4-1/2"	2-1/2"	1-1/8"					
IGPN-2	10-1/2"	7"	2-1/2"	1-1/8"					
IGPN-3	13-1/2"	7"	2-1/2"	1-1/8"					

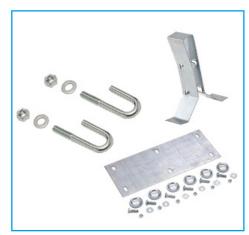
Application

Interlocking safety grating is widely used as:

- Platform.
- Walkway.
- Floor.

- Stair treads.
- Mezzanine.
- Trench drainage.

Safety Grating Accessories 🖬



There are also so many accessories can be used with safety grating to make the installation of safety grating easier and faster, such as J-clips, walkway splice plates, hold-down clamps and hold-down clips, anchor plates and so on.

Fixation can be achieved by placing the J-bolt into the opening of the anchor plate opposite the J-bolt. Walkway splice plates used for connecting side channels. And hold-down clamp is used for fixing interlocking safety grating to I-beam or other anchoring cross-member. All in all, all kinds of accessories can play their role to make the safety grating work better.

Feature

- Galvanized surface treatment protect the accessories against corrosion.
- Making the installation of safety grating faster.
- Accessories can be used year after year.
- Durable with longer lifespan.

Application

- Diamond anchor, anchor plate and walkway splice plate used for diamond-strut safety grating.
- Bolt washer seat, J-clip, mid clip kit, surface splice plate and walkway splice plate used for O-grip safety grating.
- Hold-down clamp, hold down clip and anchor j-bolt used for interlocking safety grating.

Table 6: Diamor	Anchors Kit for Diamond-Str square hole for 5/16" carriage bolt Top View + + 10 ga. (0.1345") Side View Diamond washer details	rut Safety Grating						
Item	Specification	Number						
Diamond Washer	2-1/4" × 3/4"	1						
Carriage Bolt	Carriage Bolt 5/16"-18 1							
Flat Washer								
Hex Nut	5/16"-18	1						

X Material: mill galvanized plain steel or stainless steel 304.

Table 7: Anchor Plate Kit for Diamond-Strut Safety Grating								
ltem	Item Specification Number							
Anchor Plate	3-1/2" × 3-1/2"	1						
J-Bolts	3/8"-16	2						
Flat Washer	3/8"	2						
Hex Nut	3/8"-16	2						

Material: mill galvanized plain steel or stainless steel 304.

Table 8: 30" Lo	ong Wall	kway	Splice	Plate I	Kit for	Diamo	nd-Str	ut Saf	ety Grating
1 ⁷ /8″ —	-	► 3 ³	³ /4" C to C	— 30"				- •	
1		0	0	0	0	0	0	0	4 ¹ / ₂ "
1 ⁷ /8″	•	0	0	0	0	0	0	0	472
	³ /4″			POG-V	VS-30				-
		30) inches lo	ong splic	e plate d	etails			
ltem			Sp	ecification			N	lumber	
Splice plate			2	1-1/2" ×	/2" × 30"		2		2
Hex bolt			1/2	2"-13 × 1	-1/4"		32		32
Hex nut				1/2"-1	3		32		32
Washer			1/2"			32			

Plate thickness: 12 gauge.Finish: mill-galvanized.

Table 9: 7" Long Walk	Table 9: 7" Long Walkway Splice Plate Kit for Diamond-Strut Safety Grating							
ltem	Specification	Number						
Splice plate	4" × 7"	2						
Hex bolt	7/16"-14 × 1-1/4"	16						
Hex Nut	7/16"-14	16						
Washer	7/16"	16						

Plate thickness: 10 gauge.Finish: mill-galvanized.

Table 10: Bolt Washer Seat Kit for O-Grip Safety Grating		
ltem	Specification	Number
Bolt Washer Seat	-	1
Carriage Bolt	3/8"-16	1
Flat Washer	3/8"	1
Hex Nut	3/8"-16	1

* Plank carriage bolt height: side channel height + 1".

Walkway way carriage bolt: 5/16"-18 × 2".

Table 11: J-Clip Kit for O-Grip Safety Grating		
ltem	Specification	Number
P-Bolt Seat	-	1
Carriage Bolt	3/8"-16	1
Flat Washer	3/8"	1
Hex Nut	3/8"-16	1

* Plank carriage bolt height: side channel height + 1".

Walkway carriage bolt: 5/16"-18 × 2".

Table 12: Walkway Splice Plate Kit for O-Grip Safety Grating		
ltem	Specification	Number
Walkway Splice Plate	4-1/2" × 30"	2
Hex Bolt	1/2" × 1-1/4"	32
Hex Nut	1/2"-13	32
Flat Washer	1/2"	32

Table 13: Hold-Down Clamp Kit for Interlocking Safety Grating		
Item	Specification	Number
Hex Head Cap Screw	5/16"-18	1
Flat Washer	5/16"	1
Hex Nut	5/16"-18	1

* Material: mill galvanized plain steel or stainless steel 304.

Table 14: Anchor J-Bolt for Interlocking Safety Grating		
ltem	Specification	Number
J-Bolt	5/16"-18 × 2-13/16"	1
Flat Washer	5/16"	2
Hex Nut	5/16"-18	2

Material: mill galvanized plain steel or stainless steel 304.

SAFETY GRATING

Walcoom Corporation



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