



**CANADA  
2023**

# Erosion Control & Permeable Paving Systems





# VODALAND today

Established in 2000, Vodaland is an international manufacturer and supplier specializing in the fields of water collection and removal, custom project engineering, and terrain development.

**7** countries  
USA, Canada, France, Spain, Poland, Romania, Ukraine



<b>4</b> Production Plants	<b>11</b> Sales offices	<b>ISO</b> certified according to ISO 9001	<b>R&amp;D</b> own service R&D	<b>i</b> Project Service	<b>350</b> international team of workers
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## Categories



- ✓ Trench Drains
- ✓ Slot drains
- ✓ Industrial Drains
- ✓ Catch Basins



- ✓ Oil/water separators



- ✓ Erosion Control Grids
- ✓ Plastic Paving Grids



- ✓ Manhole Covers
- ✓ Garden Border/Edging

# Product Title Terminology

Series	
<b>BASE</b>	Classified as load classes A-C
<b>PRO</b>	Classified as load classes D-E
<b>MEGA</b>	Classified as load classes D-F
Product Lines	
<b>Concrete</b>	Product made of Fiber Concrete material
<b>Polymer concrete</b>	Product made of Polymer Concrete material
<b>Plastic</b>	Product made of PPE Plastic material
<b>STAINLESS</b>	Fully Stainless Steel system
Width	
<b>Inches</b>	The inches in product title refers to internal width

## Series explanation



**BASE series:**  
**Load Class A15-C250**  
Small & medium loads, being ideal for residential areas and light commercial application.



**PRO series:**  
**Load Class D400-E600**  
Medium & heavy-duty loads such as gas stations, parking garages, warehouses & forklifts, and curbsides.



**MEGA series:**  
**Load Class D400-F900**  
Used for heavy duty & extreme loads such as heavy traffic roads & highways, industrial zones, and airports.







TERRA



# Load Classifications

Load classifications have been done according to EN 1433; the only standard written specifically for grated trench drains, and internationally recognized.

Each item is designed for a specific load class. The load classes will aid you in choosing the right channels and Grates in accordance with the requirements of your construction project.

EASY Series		A 15 (3,300 lbs.)	Pedestrians, bicycles and wheel chair traffic. Pedestrian zones, parks, recreation areas, stadiums etc.
		B 125 (27,500 lbs.)	Medium-duty pneumatic tire traffic, autos and light trucks at speeds less than 20 m.p.h. Residential areas, parking lots, etc.
		C 250 (55,000 lbs.)	Heavy-duty pneumatic tire forklifts, tractor-trailers, buses. Road shoulders, auto services, garages, etc.
PRO Series		D 400 (88,000 lbs.)	Heavy-duty hard tire forklifts, trucks. Gas stations, car washes, industrial areas, warehouses, etc.
		E 600 (132,000 lbs.)	General dock and aircraft pavements.
		F 900 (198,000 lbs.)	General docks and aircraft pavements subject to high wheel loads.

# Type of Surface Drainage

**Linear Drainage Systems** are used to collect storm-water and melted snow from a large area.



Linear and Point Drainage Systems are both used in storm-water removal and distribution, each with their own function and purpose. The linear channels collect and drain water from the surface, providing safety for road surfaces and pedestrian traffic.

**Point Drainage Systems** are used for local collection of storm-water and snowmelt.



Point drainage systems perform the function of collecting water at a center point. Our catch basins and inline catch basins are equipped with a basket to catch debris and sand, preventing excess sediments going into the system.

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# EasyPave and EasyPave Pro grids

Vodaland EasyPave Grid: With 2 inches of height, it will withstand loads of up to 88,000 lbs and it can do so standalone before even applying an aggregate. It also comes with the ability to use installation anchors to provide additional support and security (optional). So, what makes the EasyPave system better than the competition? Vodaland engineers have put in many hours of research to include the most modern features in each unit.



### ADVANTAGES

**Taller than all others**

A taller grid allows for more aggregate to be added, which results in more strength, and means it better contains the aggregate over time.

**"S" turn grid design**

We designed our EasyPave system with a wave-like pattern that narrows at the edges. This allows for more strength, meaning ultra-heavy loads such as plow trucks, semi-trucks, and even tanks can go over this – and that is even when it's not filled!

**The Slide and Lock Installation**

The slide-and-lock installation method prevents any possibility of disconnection. Other paving grids come with a push-down mechanism to connect the units together, but this can result in the units disconnecting when driven over. Because our grids connect horizontally, no amount of pressure from above or below will cause them to disconnect.

**Anchor System (optional)**

Our EasyPave grids come with the option of using installation anchors; a feature not often included by competitors. These anchors provide additional support during installation by preventing the grids from shifting during the pouring of aggregate. Once installed, it continues to provide ongoing support to the grid by holding it firmly to the ground.

**Aggregate and Permeability**

The system is 100% permeable, so water penetrates directly through the bottom of the system into the ground. No chance for erosion from any weather or from transportation of heavy loads. Allows for the use with soil and grass growth, which can reduce the visibility of the grid and provide a seamless look with the rest of your yard.



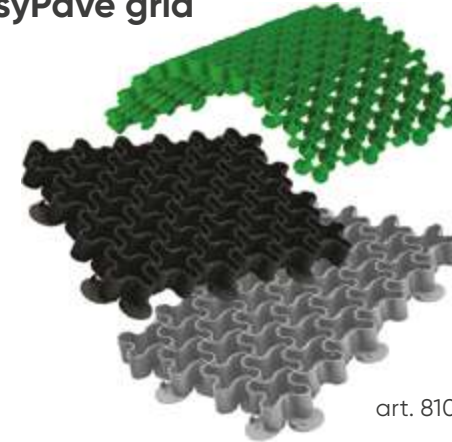
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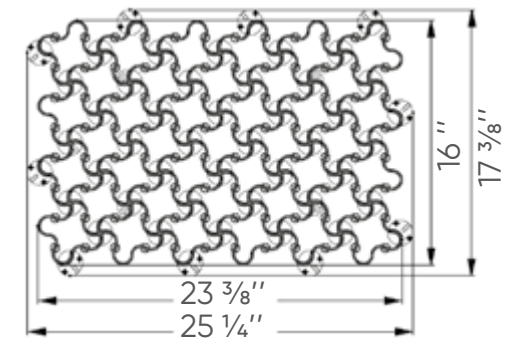
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### EasyPave grid



art. 8100-CH

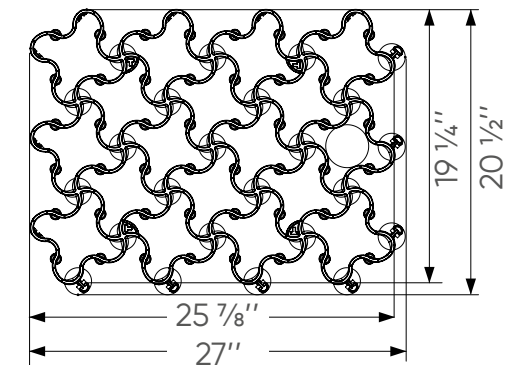


Name	Colour	Lenght, in	Width, in	Height, in	Weight, lb	Material
EasyPave Grid	Black, Green, Gray	25 1/4"	17 3/8	2	3.39	Plastic

### EasyPave Pro grid



art. 8103-BK



Name	Colour	Lenght, in	Width, in	Height, in	Weight, lb	Material
EasyPave Pro Grid	Black	27	20 1/2	2	4.0	Plastic



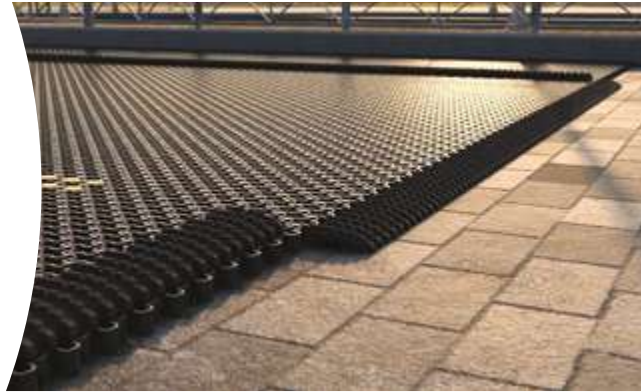


# EasyPave accessories

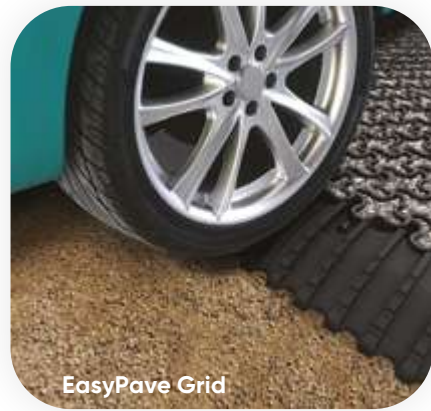
## EasyRamp

Our product that works with both Easypave and Hexpave - our EasyRamp! This is the solution to all the entrance leveling problems to your installations with our pavers. No longer do you have to dig down in your transition area, to be able to drive onto your Hexpave or Easypave.

Our EasyRamp is the solution that our customers have been asking for, and Vodaland listens. They can be installed even after your installation, so anytime is a good time to make your transition area, or your driveway / parking lot last longer, and more controlled.



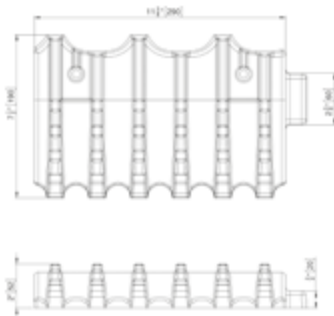
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EasyPave Grid



HEXpave Grid



Each unit is made of 100% recycled RUBBER. Meaning even the heaviest of vehicles are able to utilize this. They come in 12 inch wide sections, that can be anchored down with our Easypave anchors OR or J hook anchors. Simple install and Ramp up to your pavers!



If you are in a large lot, they can also be installed as a speed-bump on top of the Easypave or Hexpave grid to reduce over speeding. Also can be installed as a parking lot edge bumper to promote vehicles stopping at specific areas.



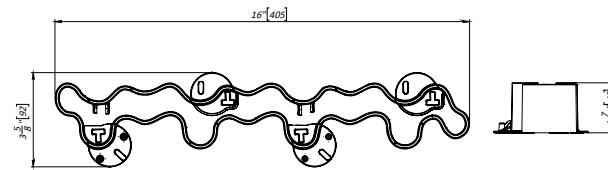
Recommended to purchase J Hooks or Easypave/Hexpave Anchors for installation

## EasyBend

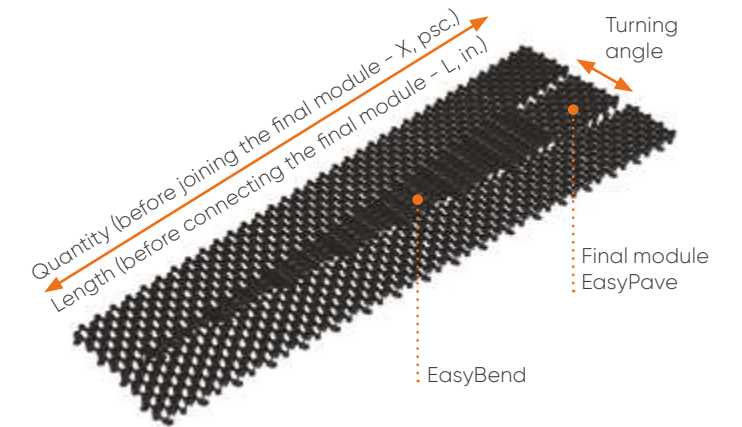
EasyBend units will seamlessly integrate with our EasyPave system to create a gradual turn in your installation, making EasyPave compatible with any project.



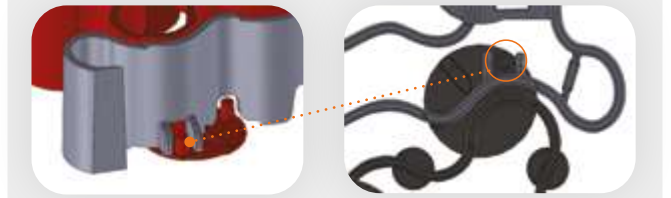
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EasyBend is intended to provide a turning radius for our EasyPave permeable paving grid.



### Installation



Filling angle (°, Degrees)	9,71	7,79	6,51	5,6	4,91	4,38	3,96	3,61	3,32	3,08	2,87	2,69	2,53	2,39	2,26	2,15
EasyPave Quantity, X (psc.)	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
EasyBend Quantity, Y (psc.)	24	28	36	44	49	54	57	67	74	79	88	96	99	109	115	122
Lenght, (in)	94	118	141	165	188	212	235	259	282	306	329	353	376	400	423	447



# HEXpave grid

Vodaland's HEXpave grid: With 1 inch of height, it will withstand loads of up to 27,500 lbs with aggregate fill. It comes with an optional anchoring system on slight incline installations (up to 10%)

## ADVANTAGES

- Unique Design**

Our specially designed 2-inch hexagonal pattern provides the perfect shape for containing the aggregate that you choose to use.

- Open for grass**

HEXpave system allows for more grass to grow through with its hex openings and integrated design technology. This makes for the perfect system for walkways, patios, and small vehicle areas.

- Snap and lock installation**

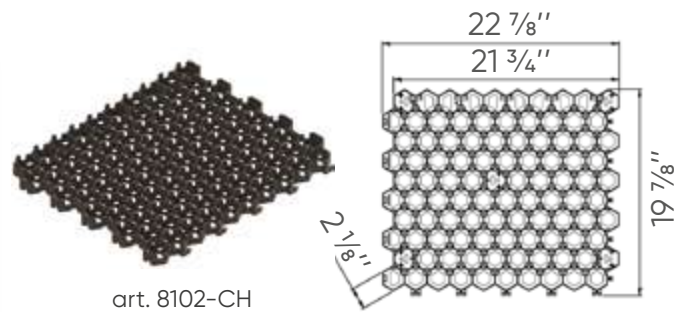
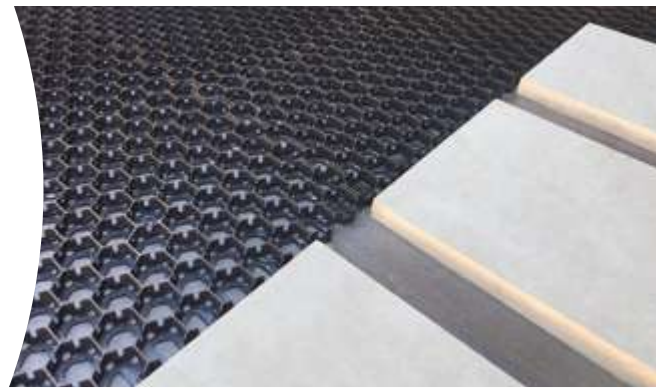
The HEXpave system comes with a snap-and-lock installation that leaves no trace of where it connects.

- Anchor System (optional)**

Our HEXpave grids come with the option of using installation anchors; a feature not often included by competitors. These anchors provide additional support during installation by preventing the grids from shifting during the pouring of aggregate. Once installed, it continues to provide ongoing support to the grid by holding it firmly to the ground.

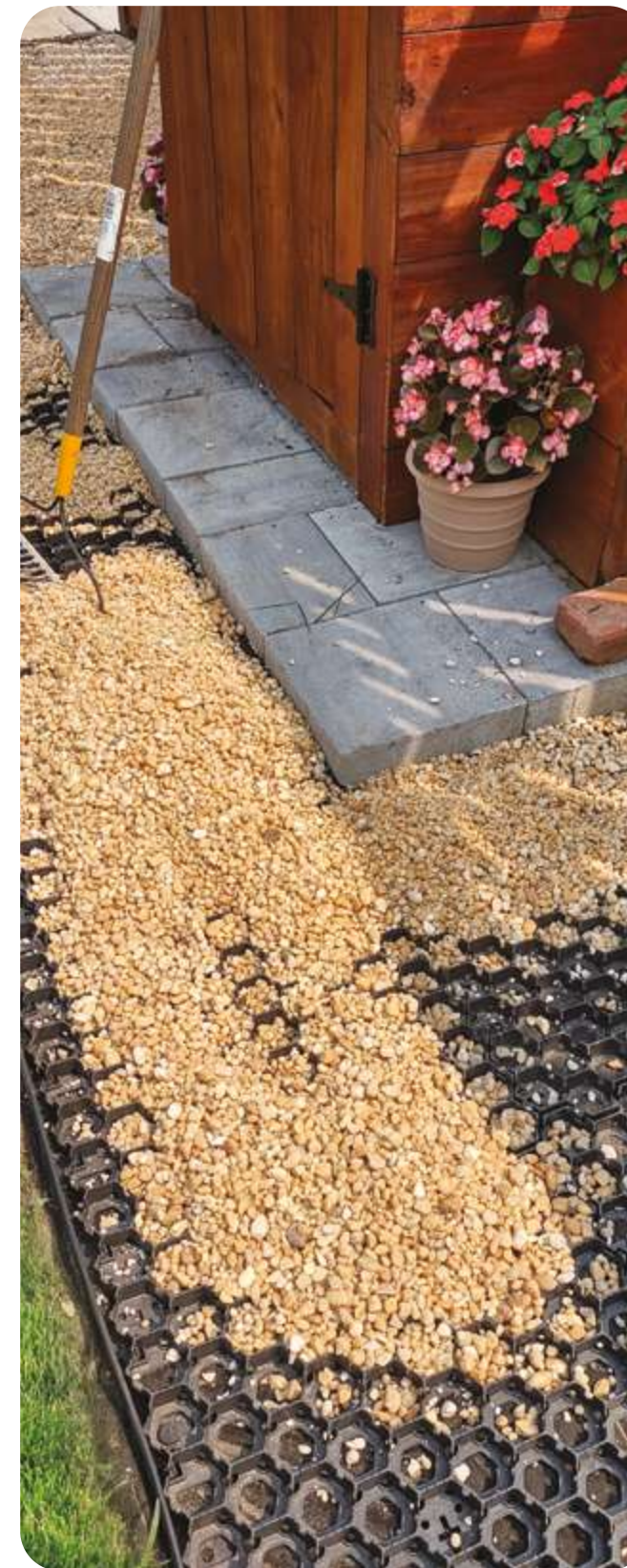
- Air and permeability**

The system is 100% permeable, so water penetrates directly through the bottom of the system into the ground. No chance for erosion from any climate or through continuous transportation of heavy loads. Allows for the use with soil and grass growth, which can reduce the visibility of the grid and provide a seamless look with the rest of your yard



## PARAMETERS

Article	8102-CH
Material	100% Recycled Polyethylene
Coverage	Each units covers 3.3 sq ft after connection
Dimensions	23" x 20" x 2"
Load Class	B - 27,500 lbs
Article (Anchors)	6842



Name	Colour	Lenght, in	Width, in	Height, in	Weight, lb	Material
HEXPave Grid	Black	22 7/8"	19 7/8"	1 1/8"	2	Plastic



# Geocell – erosion control system

Our Geo Ground Grid is the "end all be all" for your erosion problems. Made with a flexible poly (100% Recycled Material) and with our lifetime warranty, this will bring you piece of mind. We carry three specific sizes (heights). The 2" geo grid - mainly meant for home / gardening and walking pathways. The 4" Geo grid which is for your pads, hill sides, and common erosion problems. The 8" geo grid is more for your extremely heavy-duty situations and also for retaining walls. Saving you a lot of money in relation to normal concrete retaining walls.



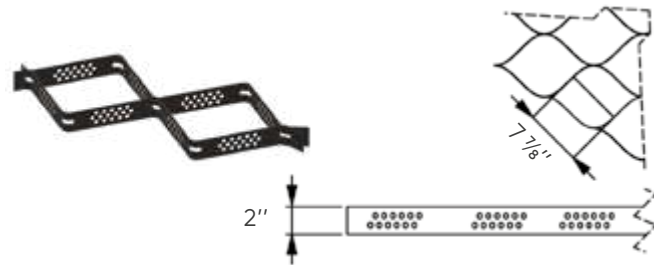
## GREAT FOR ALL SITUATIONS

- Retaining Walls
- Parking Spaces
- Driveways
- Grass Installs

Geo / Ground Grid parameters			
	2" THICK	4" THICK	8" THICK
Article	8750	8710	8720
Material	Modified Polyethylene		
Coverage	160 SQ FT		
Dimensions	8.4 FT x 19.7 FT		

## 2" THICK GEO / GROUND GRID

Our 2" thick ground grid is perfect for all sorts of projects; from landscaping to light load pads. It is best used in residential settings or in situations that require a thin grid that can fit in tight spaces. Its small size makes it easy to install while still providing great support for your aggregate.

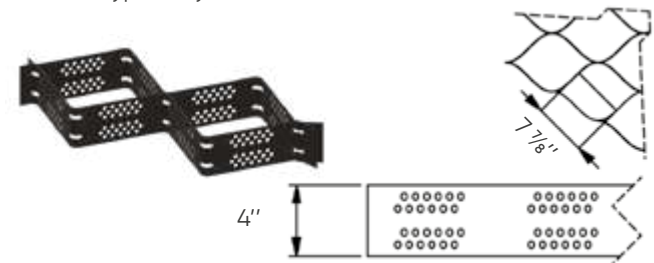


### USES:

- Walking paths
- Light Pedestrian Areas
- Gardening / Landscaping

## 4" THICK GEO / GROUND GRID

Our 4" thick ground grid is perfect for all sorts of projects. It is most often used in situations that require the grid to withstand heavy driving loads. If your driveway has an incline, this grid is your best choice. (up to a 45-degree slope) This system can only be used for driving and parking when used with a large gravel aggregate. For use with grass to support parking/driving, we recommend you refer to our Easypave system.

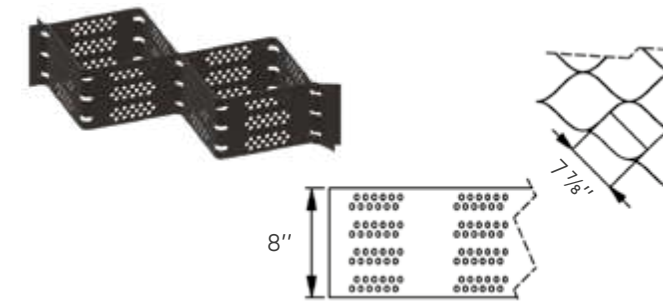


### USES:

- Parking Pads
- Retaining Walls
- Walking Paths
- Erosion Control
- Paver Base
- Shed Base
- Temporary Lot
- Horse Stables / Paddocks

## 8" THICK GEO / GROUND GRID

Our 8" thick ground grid is perfect for projects that require the sturdiest and most durable product. Recommended for heavy-duty parking-lots/roads, commercial landscaping, steep retaining walls, or any project that will hold heavy loads or use a large size aggregate. Even with its size and weight, this grid proves to be an easy installation in comparison to competing ground grids.



### USES:

- Heavy Duty Driveway / Steep Installation
- Horse Paddocks
- Retaining Walls
- Steep Slopes

## PLASTIC ANCHORS



art. 8970-M

We recommend for all Geo Ground Grid installations that you consider utilizing our plastic geo grid anchors. The anchors assist by allowing you to expand the grid to its max and anchor it down tightly, before proceeding with the fill. Our anchors (made in PPE plastic or galvanized steel) remain in the grid after installation to provide additional longevity to the tension of the grid.

## J HOOK REBAR ANCHORS



Alternatively, another great option it to use our J Hook Rebar Anchors for Geo Ground Grid installations.

10 Pack of Rebar J Hook anchors - can be used with our 2 inch, 4 inch and 8 inch Geo Ground Grid. Can be utilized for anchoring anything down from fences to play grounds and much more! Coated for rust proof as well. These can be left within the grid, or removed and used again. The durable 1/4 inch rebar is easy to hit directly in the ground. They are fitted with a chisel point end to be able to hit into even hard ground, leaving no issues with installation. Basic installation - is utilizing three of the 10 packs per grid. We recommend these anchors on each corner on the grid, and throughout the perimeter. Needed on sloped installations mostly.





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