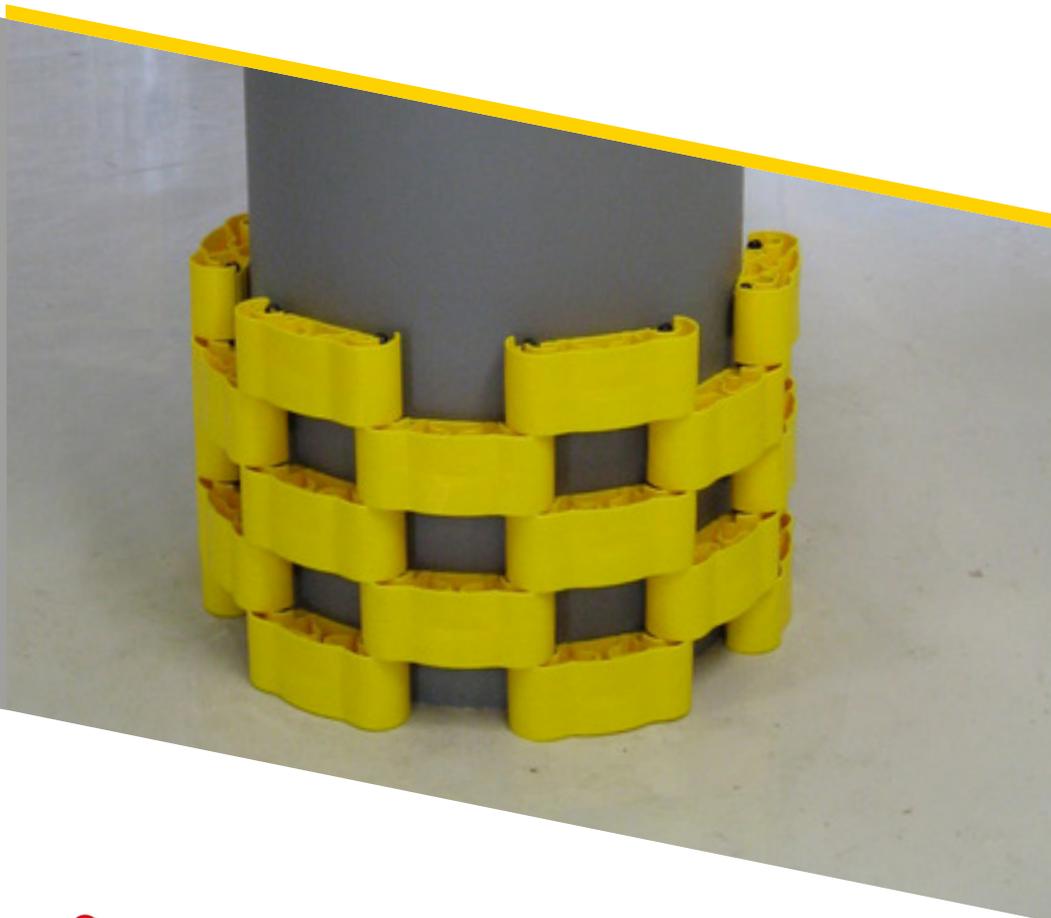


# MAXI COLUMN GUARDS

- Reduce vehicle impact damage to columns, walls & structures
- Improve workplace safety
- Low profile, space saving design
- Quick & easy installation on all column shapes including square, round, H & I beams
- Inexpensive purchase, installation & replacement costs
- Trusted by industry leaders for over ten years
- Suitable for cold stores.

**PROTECT-IT**  
RACK & COLUMN PROTECTION



Start planning with our online configuration tool

## INSTALLING PROTECT-IT™ MAXI COLUMN GUARDS

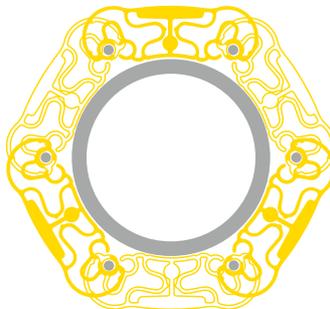
Protect-it™ MAXI column guards can be installed on columns, walls and structures of most shapes and sizes. Each shipping box contains twenty MAXI guards and eight connector pins. Each guard has four pin connector holes (see below) which provide flexible installation options. Use the pin connector holes that best suit the shape and size of your column, wall or structure.



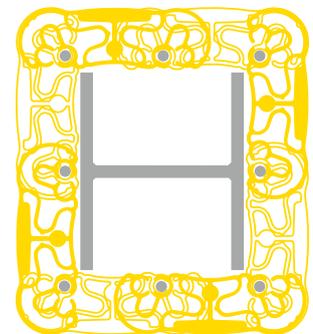
PIN CONNECTOR HOLES



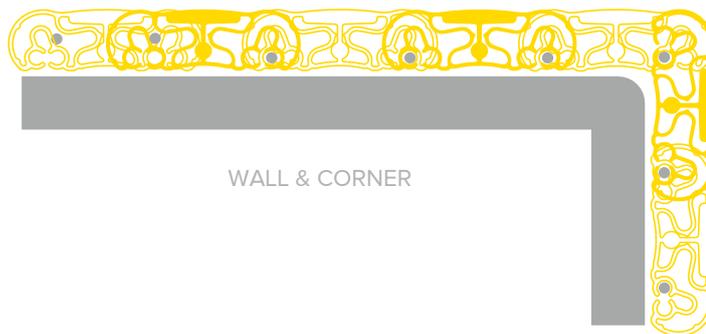
SQUARE COLUMN



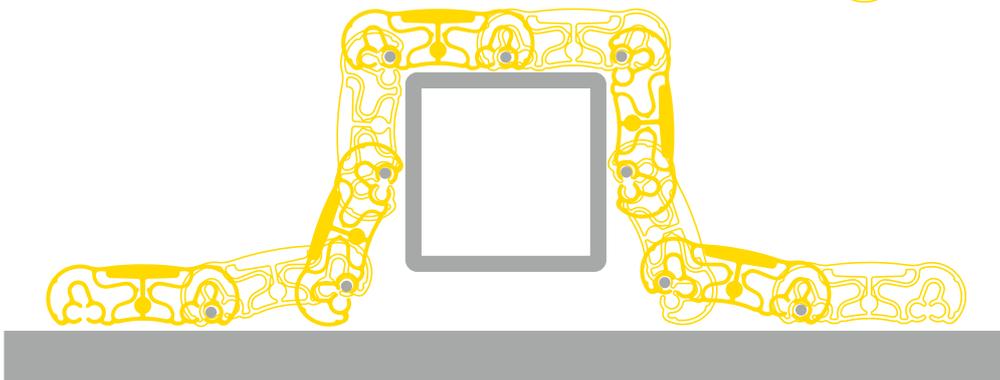
ROUND COLUMN



H COLUMN



WALL & CORNER



COLUMN AGAINST WALL



## Typical Protect-it™ MAXI installation around a column

- 

1

Position MAXI guards loosely around the base of the column.
- 

2

Offset the second layer, aligning the connector pin holes.
- 

3

Insert the connector pins from the top, leaving one corner free (pin heads are at the top of the assembly).
- 

4

Remove the assembly from the column and flip (pin heads are now at the bottom of the assembly).
- 

5

Push the assembly to the bottom of the connector pins.
- 

6

Continue adding to the assembly until it reaches five layers of MAXI guards (500mm high).
- 

7

Insert the last pin connector (with pin head at the top) to complete the assembly.
- 

8

To increase the protection height, repeat these steps to form another assembly above the first assembly.

## Alternative installation of Protect-it™ MAXI to a wall

### Step 1: Construct a panel of MAXI guards

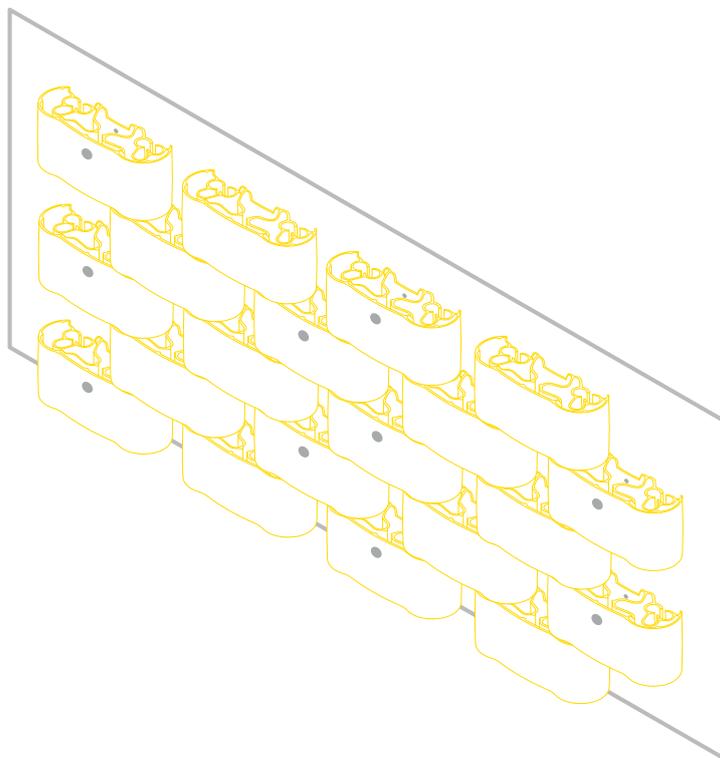
Assemble the MAXI guards to form a panel of your desired shape:

- Position a layer of MAXI guards loosely around the base of the wall
- Stack another layer of MAXI guards on top of the first layer, staggering the MAXI guards and inserting connector pins from the top as you go (with connector pin heads facing upwards)
- Once you have reached your desired panel length, flip the panel (so the pin heads are at the bottom)
- Slide the MAXI guards down the connector pins until they hit the connector pin heads
- Continue adding layers of MAXI guards to the pins until you reach five layers (500mm high)
- To increase the protection height repeat these steps and stack the second panel on top of the first.

### Step 2: Determine a wall anchor layout

Appropriate wall anchors (not included) are required when installing Protect-it™ MAXI on masonry walls. Determine an appropriate anchor pattern to secure the panel to the wall taking into account any site-specific requirements:

- We recommend fixing at least 40% of the guards (i.e. eight guards from each box of twenty) to the wall
- Additional fixings may be required at the ends of a panel (a typical anchor pattern is shown below)

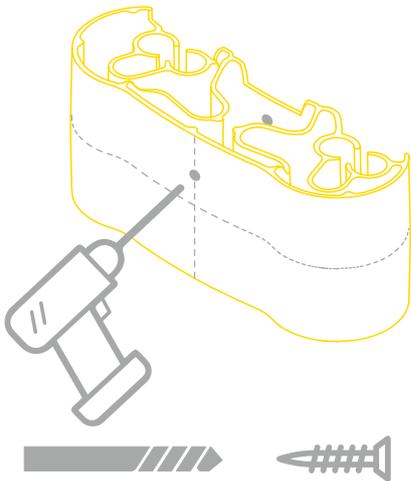


TYPICAL ANCHOR PATTERN

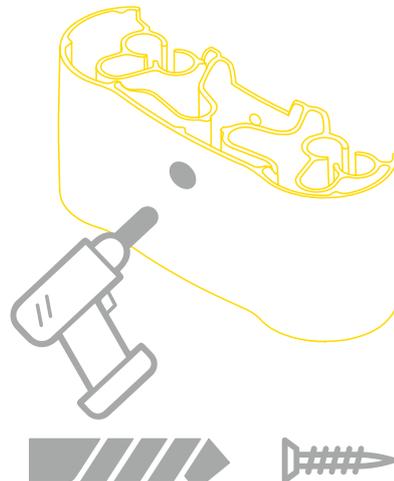
### Step 3: Prepare MAXI guards for anchoring

For each MAXI guard that requires anchoring:

- Choose a drill bit that is slightly larger than the anchor thread diameter and long enough to pass through the front and back walls of the guard
- Drill a hole on the vertical centre-line and slightly above the horizontal centre-line (see diagram below). The hole should pass through the front and back walls of the guard
- Use a larger drill bit to enlarge the hole on the front wall of the guard so that the anchor head can pass through to the back wall of the guard.



DRILL A HOLE THROUGH THE FRONT AND BACK WALLS OF THE GUARD



ENLARGE THE HOLE IN THE FRONT OF THE GUARD

### Step 4: Anchor the MAXI panel to the wall

- Mark the anchor locations on your wall using the holes you drilled in the MAXI guards as a guide
- Prepare the wall to receive your chosen anchors and fasten the panel to the wall using the anchors (following the manufacturer's instructions).



## MAXI column guard technical info

### Materials

The MAXI body is manufactured from ultra high impact polyethylene (HDPE) with the following features:



- Food Grade - when used in accordance with FDA application guidelines, MAXI products meet the requirements of FDA 21 CFR 177.1520 (c) 3.1a and AS2070-1999 section 4.1.1(a)
- Flammability - DIN 4102 B2: normal combustibility (similar to wooden pallets)
- Recyclable through most curbside recycling programs.

MAXI pins are manufactured from high impact acetal with the following features:



- Recyclable through some curbside recycling programs.

### Testing

Our testing process utilises Finite Element Analysis (FEA); a computerised method for predicting how a product reacts to real-world forces and real world impact testing.

- No column damage to a 100UC-15 (4") column after a 2.7 ton forklift impact at 2 km/hour (FEA results)
- Impact analysis - equivalent to 2.7 ton forklift impact at 2.5 km/hour
- No column damage to a 200UC\_59 (8") column after a 2.7 ton forklift impact at 6 km/hour (FEA results)
- Real world impact testing conducted in Germany

### Packaging information

#### MAXI - Box Details

Box of 20 MAXI segments and 8 connecting pins

51cm x 31cm x 25cm

8.4kg