

MonkeyMESH Manual

Edition 2



SAFETY



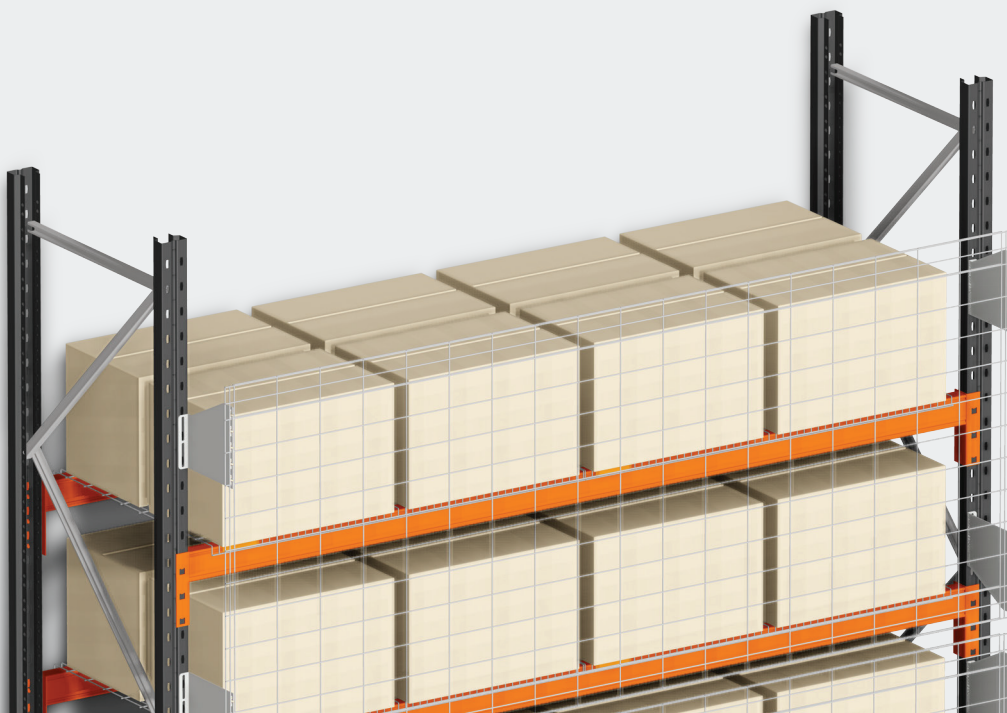
COMPLIANCE



PERFORMANCE



COMPETTIVE



MonkeyMESH® is best in class

+ Safety

- > Reduce risk of fall hazards
- > Control access direction of stock

✓ Compliance

- > Ensure dedicated flue space
- > Compatible with most rack designs

↻ Performance

- > Modular panel and bracket system
- > Positive lock secures position

🏆 Competitive

- > Efficient design
- > Quick and easy to install

Introduction

Delta is committed to delivering safe, compliant and high performing products for storage solutions. As part of this commitment we have developed MonkeyMESH, a wire backing and anti-collapse mesh system. This system incorporates a number of innovations that will assist you in meeting your project needs.

This document provides an overview of how MonkeyMESH components are packaged, how to assemble each Kit and the recommended way to install the system.

For further information about MonkeyMESH and its installation, or other Delta products, please contact us:

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E info@deltashelving.com

⚠ Please note

MonkeyMESH is NOT a load-bearing structure. While designed to prevent stock up to 25kg from falling, it is NOT designed to support stock weight for any extended period of time.

MonkeyMESH is NOT a pallet buffer and is NOT designed to withstand repeated or major impacts.

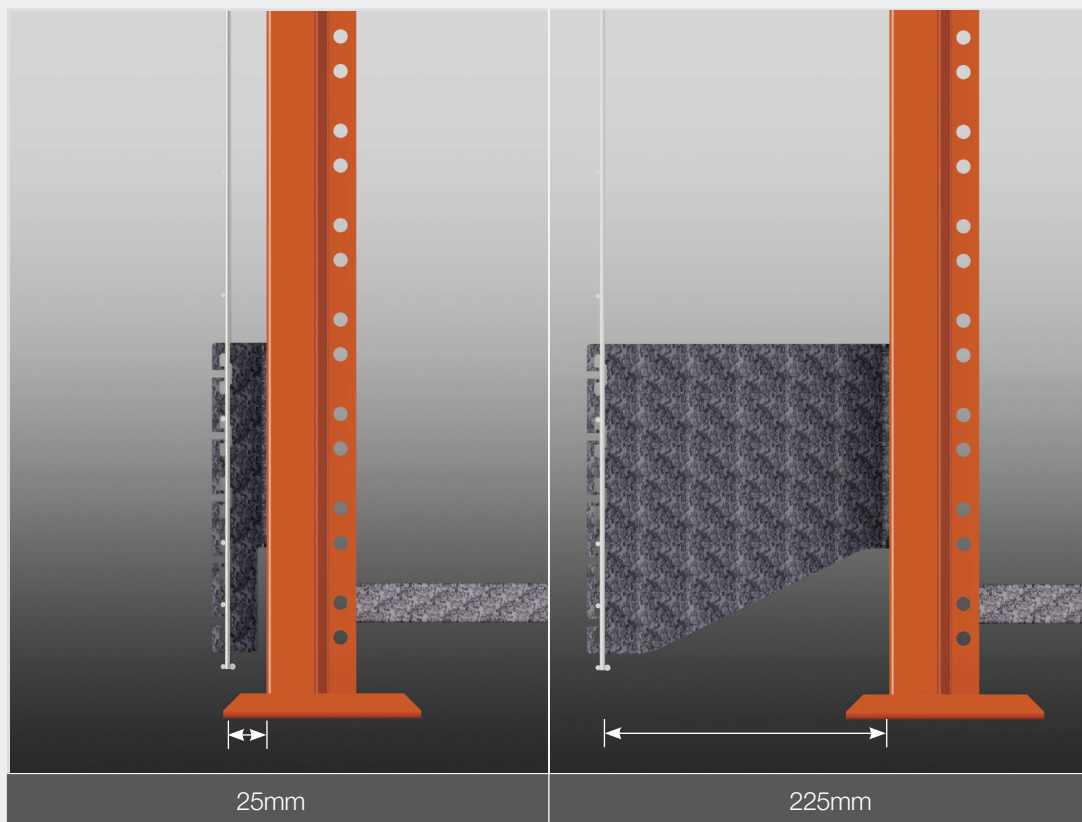
Components

There are two major components to each MonkeyMESH Kit: Panels and Brackets.

MonkeyMESH Panels are available in the following dimensions:

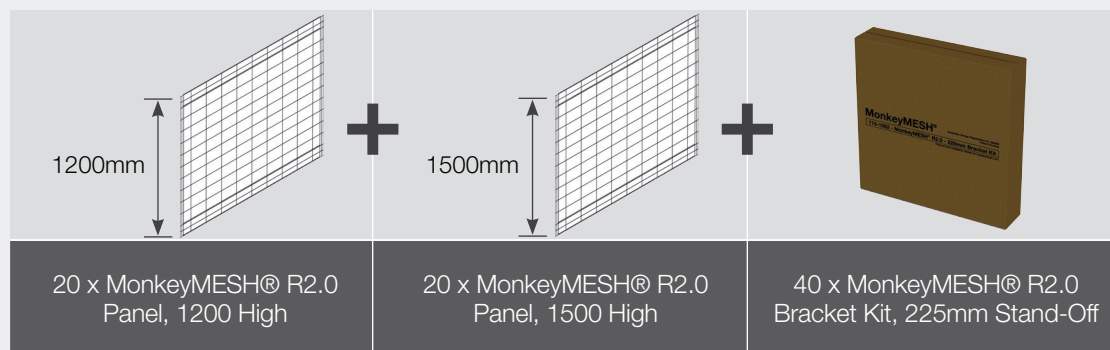
| <u>Clear Entry Range</u> | <u>Actual Widths</u> | <u>Actual Heights</u> |
|--------------------------|----------------------|-----------------------|
| 1350mm - 1400mm | 1414mm | 1205mm |
| 1500mm - 1550mm | 1564mm | 1505mm |
| 2550mm - 2600mm | 2614mm | |
| 2700mm - 2750mm | 2764mm | |

MonkeyMESH Brackets are available in two stand-off depths:



Kits and Packaging

Although ordered as kits, MonkeyMESH is delivered in components. For example, if you ordered 10 sets of a **5400 High MonkeyMESH Kit with a 225mm Stand-Off** you would receive the following:



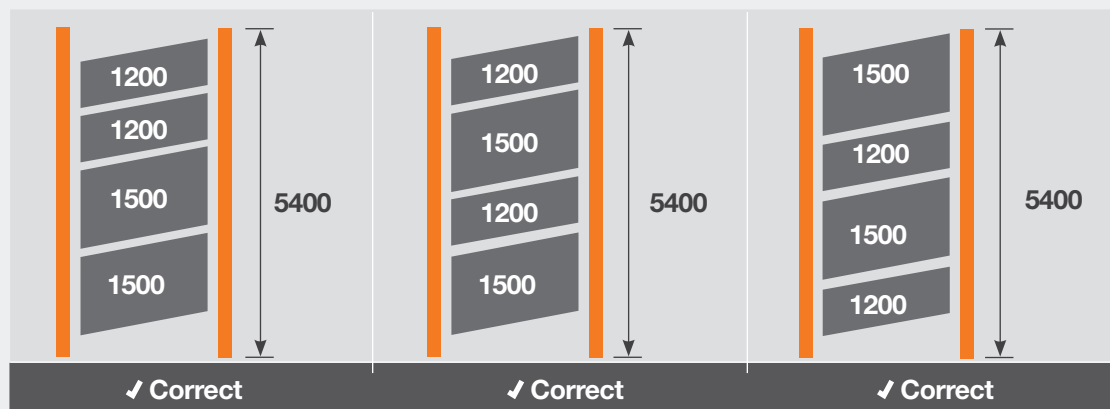
There is one Bracket Kit for each Panel supplied. Each MonkeyMESH Bracket Kit contains:



When it comes to installation, to make one **5400 High Kit with 225mm Stand-Off** you would need to select:

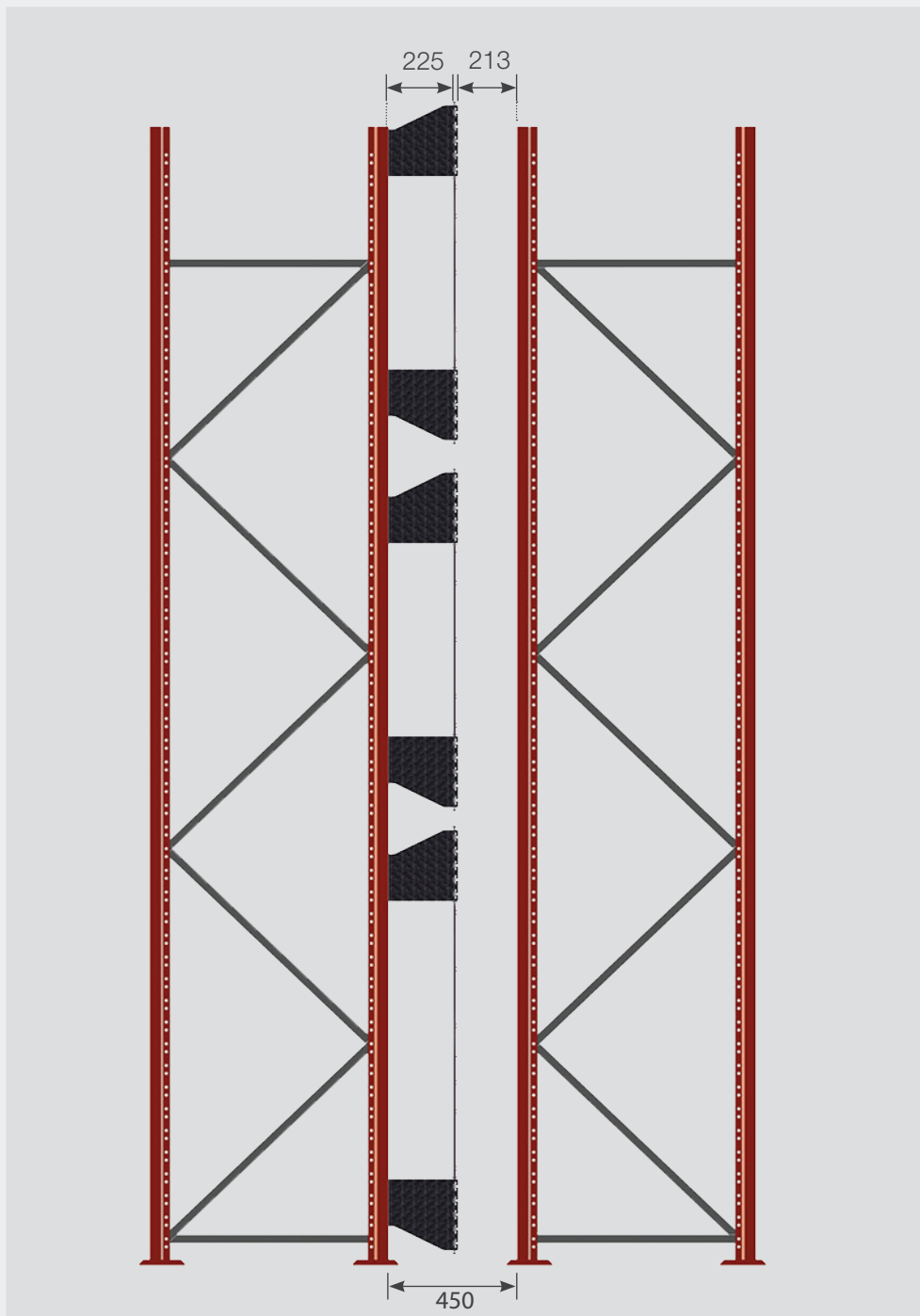
- > **2 x MonkeyMESH® R2.0 Panel, 1200 High**
- > **2 x MonkeyMESH® R2.0 Panel, 1500 High**
- > **4 x MonkeyMESH® R2.0 Bracket Kits, 225mm Stand-Off**

There is no specific vertical order by which the MonkeyMESH Panels from each Kit must be installed.



Application

The following diagram provides an indication of the measurements of an installed MonkeyMESH Kit on a back-to-back selective racking configuration. Please note that this configuration is provided for illustrative purposes only: your racking configuration, MonkeyMESH Bracket orientation and other variables may differ in practice. All measurements are in millimetres (mm).



Assembling MonkeyMESH

This section describes the correct way to assemble MonkeyMESH. By following these instructions you will achieve the highest Return On Investment from your wire backing system and contribute to a safe workplace.

Before assembly or use of MonkeyMESH, the specifier must ensure that the product supplied is correct and appropriate to your workplace. You should also check deltashelving.com to ensure that you have the current version of this MonkeyMESH Manual.

For the purposes of the product warranty and to ensure both the safety and integrity of your workplace, MonkeyMESH must be installed, used and maintained as detailed in this manual.

If the product you are attempting to install does not match the description or requirements of this manual or the site specifics are not compatible with the product, do not install the MonkeyMESH wire backing system. Contact Delta immediately to assist in resolving the issue.

Planning Your Installation

The following tools are required for installation:

- > Ratchet and socket extension to suit M8 screws and nuts
- > An M8 spanner

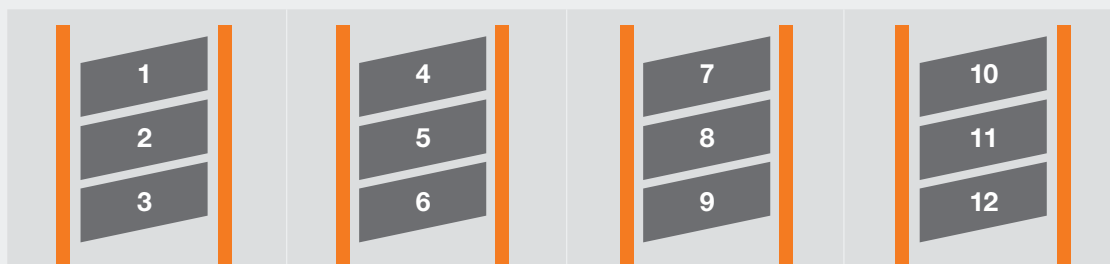
Additionally, we recommend the use of the following Personal Protective Equipment (PPE):



Throughout the development of MonkeyMESH we have investigated and tested the safest and most efficient method of installation.

Installation should start at one end of the racking assembly, commencing at the top-most position for a MonkeyMESH Panel. The next section to be installed should be the section immediately underneath, and so on until you reach the bottom of that rack.

The installer should then move to the section of the racking assembly immediately next to the section that now has MonkeyMESH installed, and again start from the top and work down. The following diagram illustrates our recommendation for the order in which MonkeyMESH Panels should be installed:



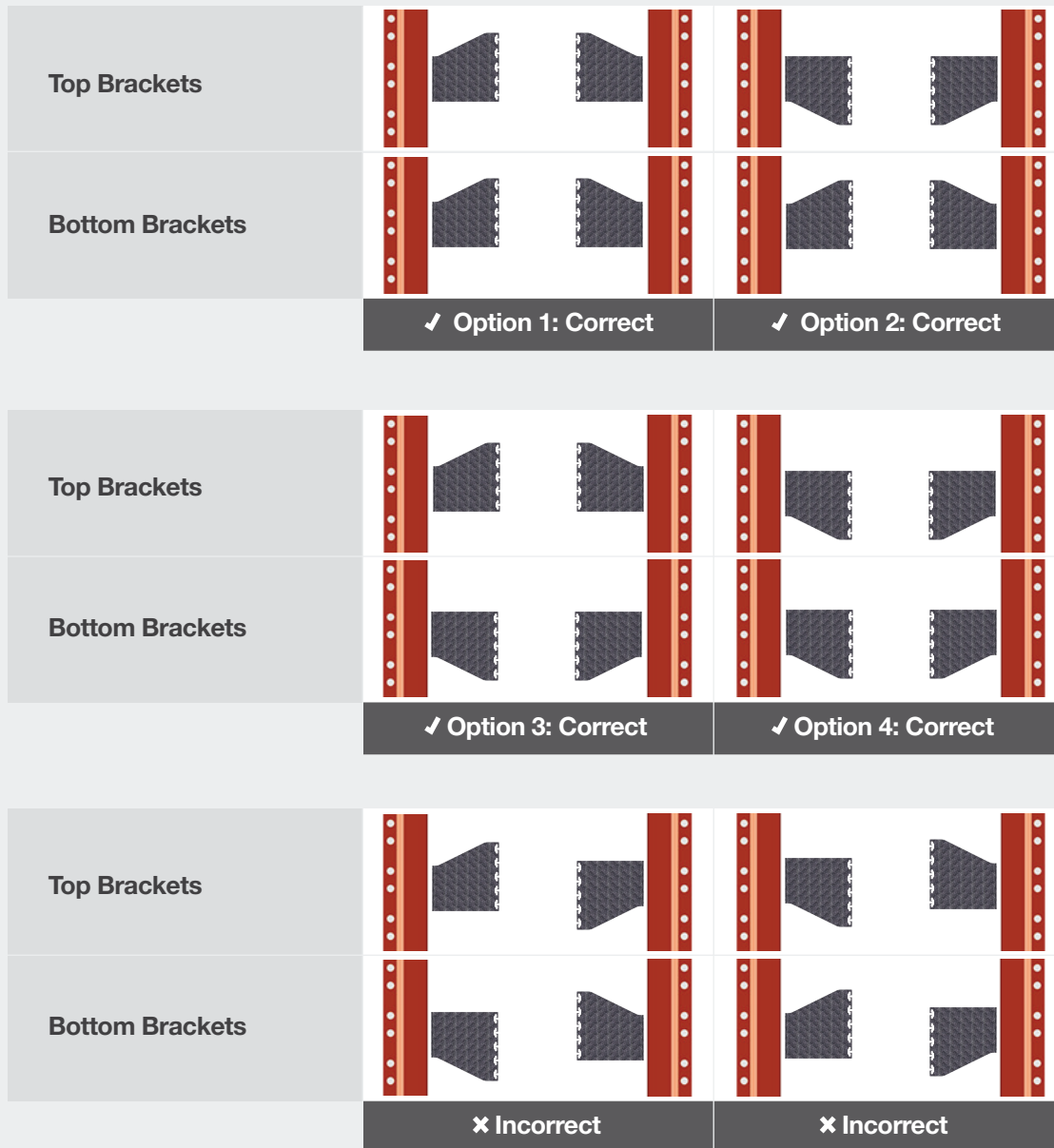
Please note

Before beginning installation, make sure to carefully measure where the MonkeyMESH will go on the racking assembly. If you install the top Bracket too low, the bottom Bracket may not have enough space to be installed.

MonkeyMESH Bracket Arrangement

Each MonkeyMESH Bracket has a “mounting flange”. This is the section of the MonkeyMESH Bracket that will be fixed to the upright. The mounting flange must always be facing “outwards” from where the MonkeyMESH Panel will be.

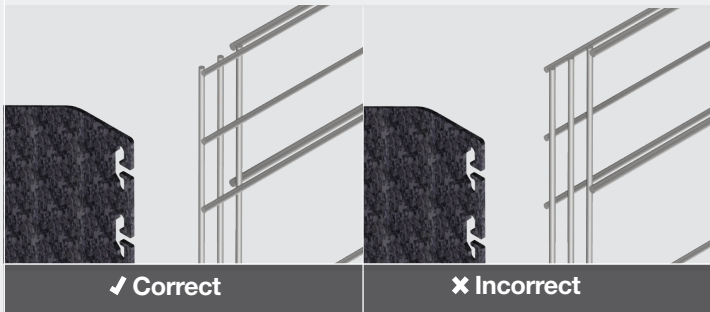
MonkeyMESH Brackets can be used “either way up”, but must always have the mounting flange facing outwards from the MonkeyMESH Panel and must be the “same way up” for both “top brackets” and the same way up for both “bottom brackets”.



For the following instructions, we have chosen Option 3 for the purposes of our illustrations.

MonkeyMESH Panel - Bracket Connection

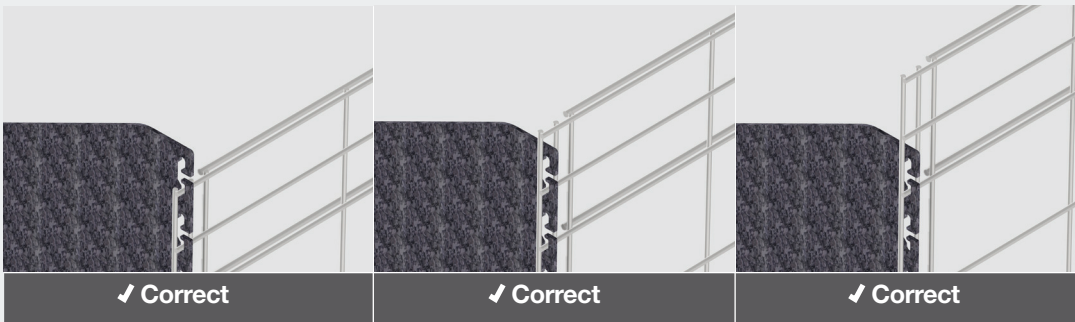
MonkeyMESH Panels feature stiffening wires on one side of the Panel. When installing the Panels, the side with the stiffening wires should be positioned facing towards the racking assembly.



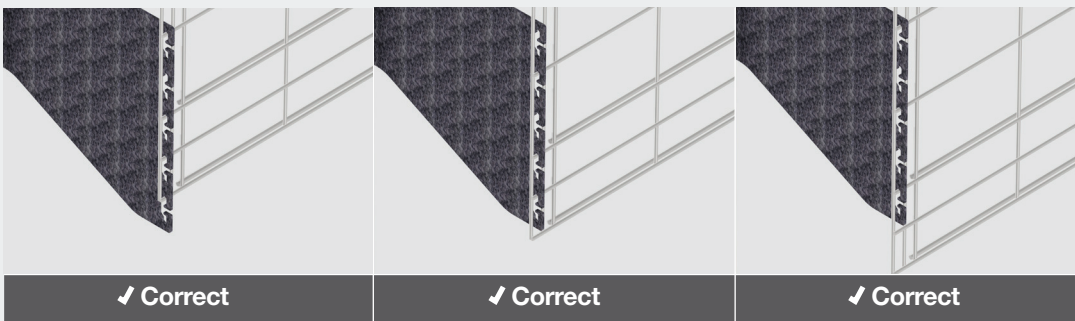
When inserting the Panel into the Brackets, ensure that the Bracket catchment slots are positioned between the three outermost vertical Panel wires.

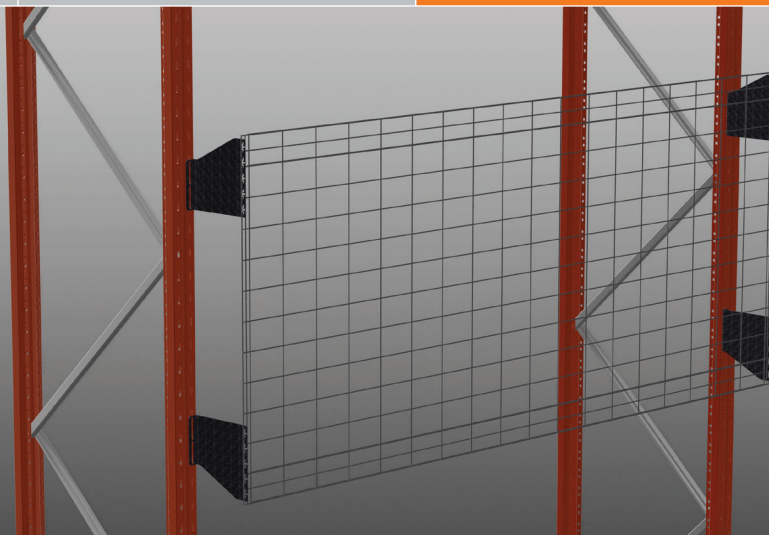


When inserting the Panel into the top Brackets, ensure that one of the three top-most horizontal wires is positioned into the top catchment slot of the Brackets.



When inserting the Panel into the bottom Brackets, ensure that one of the three bottom-most horizontal wires is positioned into the bottom catchment slot of the Brackets.





Installation Progress:



Individual MonkeyMESH Panel Installation

The following are the required steps for installing MonkeyMESH:

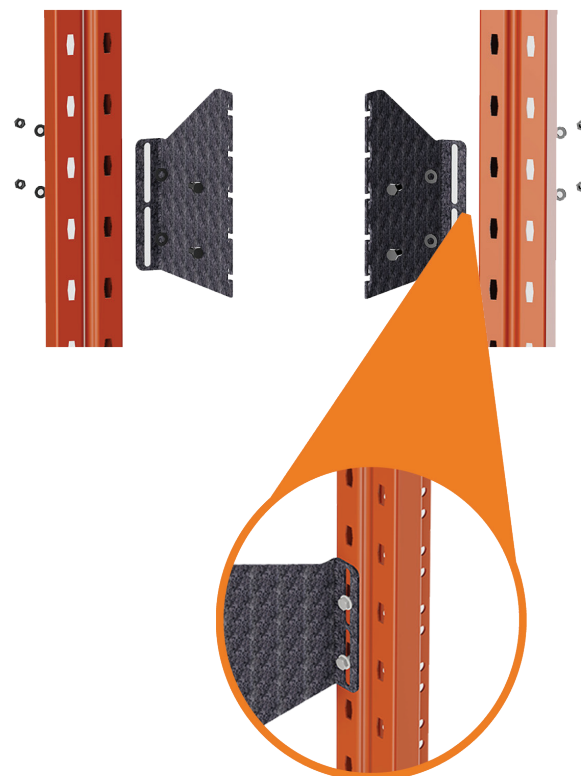
| | |
|---------------|--|
| Step 1 | Position & Fix "Top Brackets" |
| Step 2 | Position MonkeyMESH Panel in "Top Brackets" |
| Step 3 | Position the "Bottom Brackets" |
| Step 4 | Position MonkeyMESH Panel in "Bottom Brackets" |
| Step 5 | Push Down and Fix "Bottom Brackets" |
| Step 6 | Repeat as Required |

Step 1

Position & Fix "Top Brackets"



- Position one MonkeyMESH Bracket at the top left boundary of where you want the MonkeyMESH Panel to cover. This MonkeyMESH Bracket must have the mounting flange facing outwards from where the MonkeyMESH Panel will be.
- Position another MonkeyMESH Bracket at the top right boundary of where you want the MonkeyMESH Panel to cover. This MonkeyMESH Bracket must also have the mounting flange facing outwards from where the MonkeyMESH Panel will be.
- Check that both "top" MonkeyMESH Brackets are at the same height and that both MonkeyMESH Brackets are "the same way up." Tighten the fixings on both MonkeyMESH Brackets (maximum torque is 22Nm).

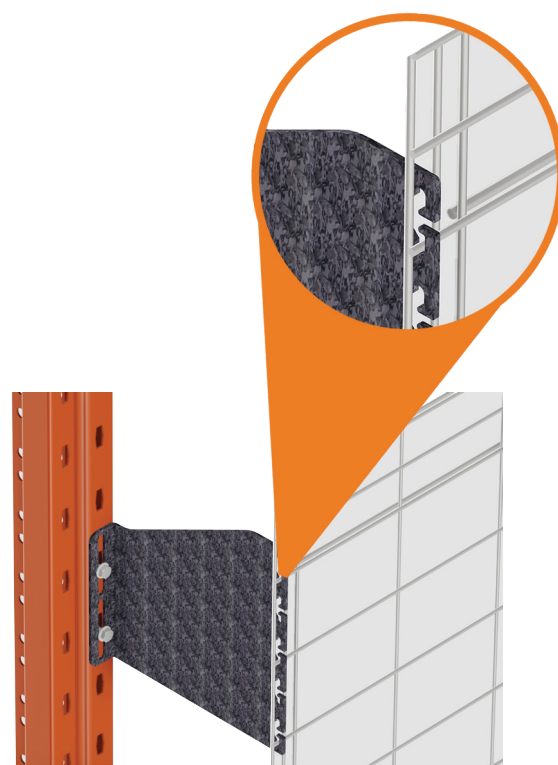


Step 2

Position MonkeyMESH Panel in "Top Brackets"



- Position the MonkeyMESH Panel so that one of the top three horizontal wires slots in to and then "hangs down" in the top catchment slot. Make sure that the panel has the stiffening wires are on the "inside" of the racking assembly.
- Both the left MonkeyMESH Bracket and the right MonkeyMESH Bracket's top catchment slots should have the same horizontal wire in them.
- The MonkeyMESH Panel should be able to hang from these two MonkeyMESH Brackets while installation continues.



Step 3

Position the "Bottom Brackets"



- > Position one MonkeyMESH Bracket at the bottom left boundary of where the MonkeyMESH Panel covers. This MonkeyMESH Bracket must have the mounting flange facing outwards from the MonkeyMESH Panel.
- > Hold in place with fixings, but do not fully tighten.
- > Position another MonkeyMESH Bracket at the bottom right boundary of where the MonkeyMESH Panel covers. This MonkeyMESH Bracket must also have the mounting flange facing outwards from the MonkeyMESH Panel.
- > Hold in place with fixings, but do not fully tighten.
- > Check that both MonkeyMESH Brackets are at the same height and that both MonkeyMESH Brackets are "the same way up".

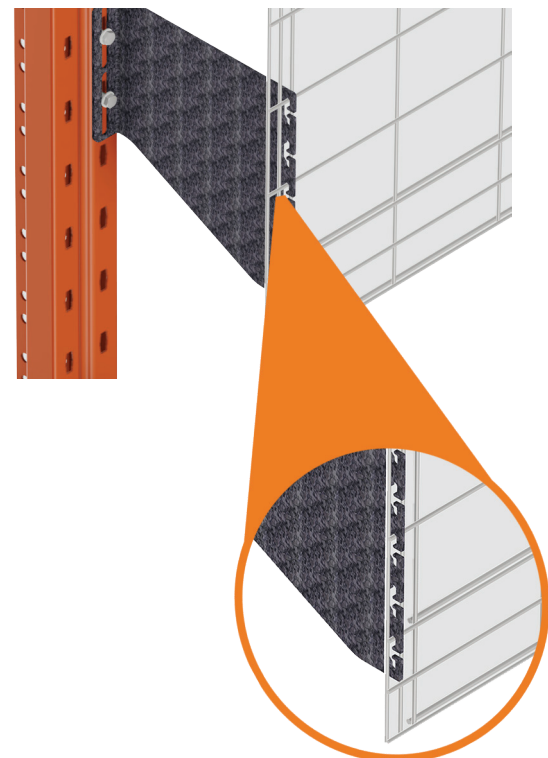


Step 4

Position MonkeyMESH Panel in "Bottom Brackets"



- > Position the MonkeyMESH Panel so that one of the bottom three horizontal wires slots in to the bottom catchment slot.
- > Both the bottom left MonkeyMESH Bracket and the bottom right MonkeyMESH Bracket's bottom catchment slots should have the same horizontal wire in them.

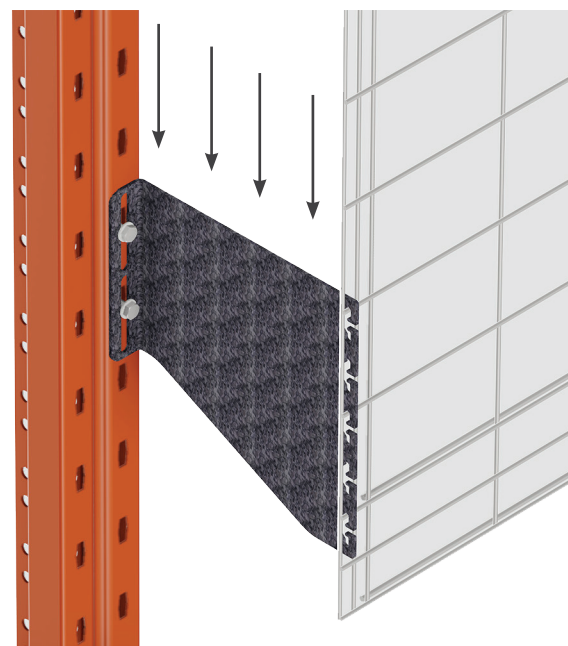


Step 5

Push Down and Fix "Bottom Brackets"



- > Manually push the "bottom" MonkeyMESH Brackets downwards so that the MonkeyMESH Panel's horizontal wires push up into the top part of the MonkeyMESH Brackets' catchment slots. The maximum force that should be used when pushing down is 15kg.
- > The tension created by pushing down on the bottom MonkeyMESH Brackets once the mesh is in place creates a positive lock and adds greater rigidity and strength throughout the MonkeyMESH Panel.
- > Creating this tension is a key requirement of the MonkeyMESH system. Unless this positive lock is created through the application of tension, the wire backing system may not perform to specification.
- > While pressing down to create the tension, tighten the fixings on both MonkeyMESH Brackets (maximum torque is 22Nm).

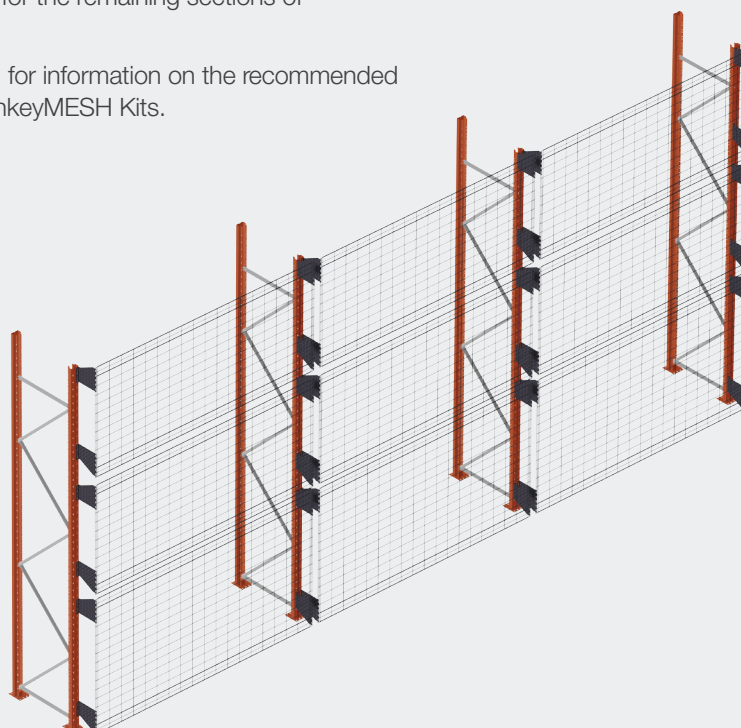


Step 6

Repeat as Required



- > Repeat Steps 1 – 5 as required for the remaining sections of MonkeyMESH to be installed.
- > Refer to the Preparation section for information on the recommended order for installation of your MonkeyMESH Kits.



Inspection

In support of the MonkeyMESH warranty requirements and as part of a safe working environment, regular inspections should be performed for MonkeyMESH. We recommend the following schedule of inspections:

| | |
|----------------------|--|
| Periodically | <ul style="list-style-type: none"> ➤ In line with your regular site maintenance schedule, or at least annually. |
| Post Incident | <ul style="list-style-type: none"> ➤ If a safety incident occurs near or involving MonkeyMESH, or if there is an impact or potential damage to the MonkeyMESH, an inspection should be performed. |

Inspections should include, but not be limited to:

| | |
|----------------------------|---|
| MonkeyMESH Brackets | <ul style="list-style-type: none"> ➤ Ensure MonkeyMESH Brackets are securely fastened to the rack uprights. Tighten fastenings if necessary (maximum torque is 22Nm). ➤ Ensure that the top and bottom Bracket catchment slots are correctly aligned with the MonkeyMESH Panel as per the Assembly & Installation section of this manual. ➤ Check that Brackets are straight and are not damaged or permanently deflected. |
| MonkeyMESH Panels | <ul style="list-style-type: none"> ➤ Ensure that no stock weight is resting on the MonkeyMESH Panel. While MonkeyMESH is designed to prevent stock from falling, it is not a load-bearing structure. ➤ Check that the Panels are straight and are not damaged or permanently deflected. ➤ Check that the tension on the Panels remains firm. |

If a MonkeyMESH Panel or Bracket is damaged or permanently deflected, replacements should be ordered from Delta and installed as soon as possible.

Help and Support

For further information about MonkeyMESH and its installation, or other Delta products, please contact us:

T +61 2 9773 9000 (Australia) or +31 88 3350 000 (Europe)

E info@deltashelving.com