

# Nylon Plugs



Nylon wall plugs are used for hanging or attaching items to solid masonry walls. Their expansion, grip and material properties work together to create a strong anchor point, ensuring stability and longevity.



## Key factors that make nylon plugs effective:

1. Expansion mechanism: Nylon plugs are designed to expand when a screw or fastener is inserted. This expansion is essential as it creates a secure anchor point within the material and provides a tight grip within the hole. The ribbed or tapered design of the plug further enhances friction ensuring a reliable and secure attachment.
2. Load distribution: When a screw or fastener is tightened in the nylon plug, the expanded plug distributes the load across a large surface area within the material. This distribution helps prevent localised stress points and increases the overall load-bearing capacity.
3. Load bearing capacity: Nylon plugs are available in various sizes and designs, each with a specific load bearing capacity.

## How to install nylon plugs:

- Drill a hole to the correct diameter and depth. Clean thoroughly, and remove debris with a vacuum, hand pump, compressed air etc.
- Insert the nylon plug into the hole until flush with the surface of the fixture
- Insert screw into the nylon plug and tighten. See guide below for determining nylon plug size, hole size, and screw size.

## Selecting the correct wall plug and screw length:

- Drilled hole diameter = Nylon Plug size
- Drilled hole depth = Nylon Plug length + min. 10mm
- Screw length = Nylon Plug Length + Thickness of attachment + 5mm

## How do I select the correct wall plug diameter

- Milsons stocks M5, M6, M8 and M10 Nylon plugs
- The nylon plug diameter corresponds to the diameter of the drill hole. The screw diameter is normally 2-3mm less as follows:

Nylon Plug Size	Drill Size	Screw Size (Metric)	Gauge
M5	5mm	2.5mm	3
		2.9mm	4
M6	6mm	3.5mm	6
		4.2mm	8
M8	8mm	4.8mm	10
		5.5mm	12
M10	10mm	6.3mm	14

ⓘ The data provided in this document is for general guidance only and should not be solely relied upon when working to stringent specifications. We recommend consulting with qualified experts regarding any technical queries. This information may change without written notice.