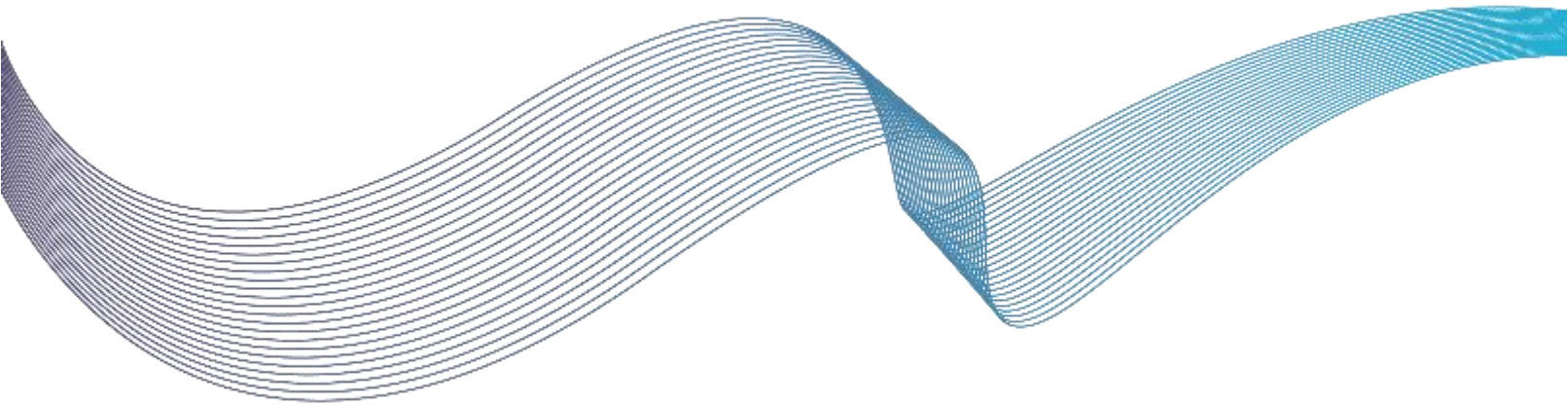


Internal Cabinets, Raising and Securing onto Floors



Approvals:

	Name	Title	Date
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Reviewer:			
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Change History:

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Overview

Occasionally there is the need to install the Hyperoptic cabinets at floor level. This could be due to numerous aspects and should be outlined by the planner and indicated within the installation proposal.

Scope of works

The cabinets are predominantly designed to be wall mounted, but there is the option of these cabinets being installed and secured onto the floor.

The cabinets are needed to be securely fixed to the planned constructional structure.

Floor mounted cabinets are needing to be raised off the floor.

This is to avoid any liquids accessing the internals of the cabinets following a flood or a spillage.

By having the cabinet raised allows the base cabling access point of the cabinet to remain in use and allow the cabinet door to be opened easier and unhindered.

Planning Considerations

At planning stage, all potential locations for the cabinet are to be surveyed.

The location of the cabinet is essential to allow the cabling network to be designed and deployed as efficient as possible.

The cabinet location is to be in a secure and clean environment and away from other services that could impede the access or create an issue if there was an event of a fault of the service, such as water spillage following a pipe burst.

Another aspect that will be considered within the survey is the aesthetics of the site and the whether the cabinet will contravene any building regulations or if the build has any listing or grading that will not permit the cabinets from being mounted on the walls.

Installation Process

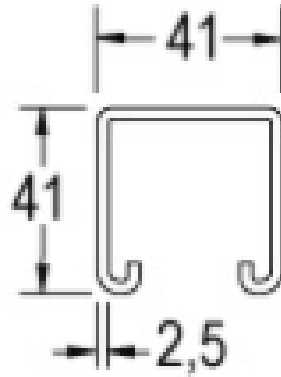
Products to Raise the Cabinet from the Floor

Unistrut Channel and Fixings

To correctly install the cabinet and allow for it to be raised from the floor level, lengths of Unistrut Channel will be used as a plinth.

The Unistrut Channel can be supplied to the required length – 50mm or cut to the required length from a longer length. (Usually 3mtrs)

The Unistrut Channel comes as a 41mm x 41mm and has a profile that is open on one edge as below:



The open edge should be installed facing up so the cabinet can be placed upon it.
The Unistrut Channel comes either with a plain or slotted back.
The slotted back version does not require pre-drilling to provide a fixing hole.



The Unistrut Channel will be positioned to align with the position of the cabinet.
The Unistrut Channel will be fixed to the floor with suitable fixings permitted by the structure and the depth of the floor.
These fixings will possibly be an insert anchor fixings like the below illustrated item:



This fixing is inserted into a pre-drilled hole and then screwed down, which will expand the plastic anchor securing the fixing in place.

1 penny washer is to be used to ensure the fixing securely holds the Unistrut Channel in place.



Securing the Cabinet to the Unistrut Channel

The Internal Hyperoptic cabinet is designed to be wall mounted and so has pre-drilled holes in its rear panel, but no holes are in the base.

To secure the cabinet to the Unistrut Channel 4 x holes are required to be drilled into the base of the cabinet to align with the location of the installed Unistrut Channel.

The hole is to be sized to allow a M8 roof bolt to be inserted through the hole.



4 x M8 Long Spring Channel Nut is to be fitted into the Unistrut Channel.



This is achieved by inserting the spring nut into the channel with the spring facing down to the base of the Unistrut Channel.

A 90° clockwise turn positions the grooves and teeth of the nut with the inserted edges of the Unistrut Channel.



The cabinet is then to be placed onto the Unistrut Channel and positioned so the drilled holes within the base of the cabinet are aligned above the holes within the Spring Nut.

The M8 bolt can then be inserted into the holes in the cabinet and into the spring nuts, where they can be screwed down until the cabinet is secured in position.

Hyperoptic Internal Cabinet with Unistrut Channel positioning:



Illustrated plan of floor fixing solution:

