



## Laser Welding Safety Enclosures

With the introduction of Laser Welding, this has led to the need for dedicated safety enclosures in order to provide a safe working environment for both the laser welding operator and other staff members working nearby.

Safety is of the upmost importance with laser welding, the class 4 lasers could blind someone if they're not wearing suitable PPE, and that's why the laser welding machines that we supply need to be used in a safety interlock enabled enclosure. This insures that no-one can interact with the laser without appropriate PPE. Our range of modular safety enclosures can be built to suit your exacting requirements. Whether you need to fit the enclosure into a specific location within the workshop, or to accommodate certain size workpieces.

Depending on your situation, a roof is also available for the enclosure, this is required should there be a 2nd story, or mezzanine floor that could allow someone to see into the booth during operation.

A standard configuration of a 3m x 3m enclosure includes a single sliding door and a vision panel featuring laser safe glass to allow other staff to look in. There is a safety interlock system which attaches to our Light**WELD** Laser Welding systems.

The optional roof system includes the option of a lighting set-up as well. The modular design means you can build a system to suit your needs.



**An example of a 3x3m enclosure with a single hinged door**



## Main Features

- 1m modular panels
- Mix and max with solid, laser-safe vision panels or doors.
- Supplied with a safety interlock system for connecting to an IPG LightWELD System
- Powder coated, solid steel construction
- Quick and simple assembly - just bolts together
- Flexible and re-configurable to suit a dynamic workplace
- Supplied with a Fuse board, 32A 240V Socket and 2 x 2Gang 13A Sockets
- Suitable conduit and connection components for electric works

## Optional Equipment

- Additional panels / vision panels
- Double Door System for larger booths
- Enclosed roof system
- Lighting Systems
- CCTV Welfare System
- Welding Table
- Welding Table Accessories
- Extraction Systems

While a 3x3 enclosure is our standard size, with the 1m modular panels, you can configure a booth to any size as required, larger or smaller.

In larger set-ups, every 3 panels in any direction will require a vertical support post, and horizontal capping is required across the top of all panels.

As standard, a hinged door is supplied, however we can supply a sliding door if this is preferred for space requirements or if it is more suitable.

For safety of non-users, the safety interlock must be used in conjunction with a laser welder, and if there is any risk of someone being in an elevated position that could see into the booth (2nd storey / mezzanine floor), a roof system must also be used.



**Integrated Electrical Panel & Fuseboard**



**Laser Safe Glass Viewing Panel**



**Door Mounted Safety Interlock Switch**

## TECHNICAL SPECIFICATIONS

These booths are entirely modular, and can be as small as a 2m x 2m booth, or as large as required. Our standard booth size recommendation would be a 3m x 3m booth, which includes a door in one of the 1m panels for access in and out of the booth.

MODEL	3x3m Enclosure (No Roof)	
STOCK CODE	820-SCE-KIT3X3	
Panel Sizes (Each)	mm	1,000 x 2,300
Composition	Single skin steel partion panel with box section and angle frame	
Safety Interlock	Single safety interlock supplied for connection to the IPG LightWELD Laser Welder	
Access	Standard single-hinged door panel with laser-safe vision window (940mm x 2000mm opening)	
Panels	10x Standard Panels, 1x Vision Panel (910mm x 320mm laser-safe vision window), 1, Door Panel	
Finish	Powder coated single skin steel panels	
Width	mm	3,110
Length	mm	3,110
Height	mm	2,300