

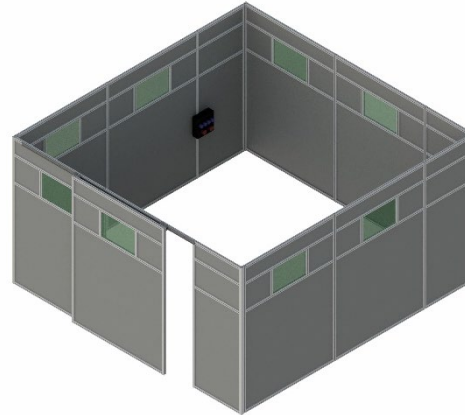


# LASER WELDING LASER CLEANING

BY NOVOFLOW

## DATA SHEET LASER PROTECTION CABIN NF-LSP\*

\*Laser-Shield-Protection



LASER PROTECTION CABIN NF-LSP* (*Laser-Shield-Protection)	
Tested in accordance with DIN EN 60825-4:2017-03: Safety of laser equipment - Part 4: Laser safety barriers	
description	technical data
dimensions	4 x 4 m to 6.2 x 5.4 m
special dimensions	length, width and height, optionally available with roof
panel dimensions and material thickness	1500 x 2050 x 6 mm and 745 x 2050 x 6 mm
edging profile	40 x 40 mm, corner post 40 x 80 mm
sliding door	standard 1 piece 1500 x 2050 mm
number of laser safety windows	1 piece standard (more possible on request)
absorption and blocking of laser radiation according to DIN EN 12254:2010 + AC:2011	315-445 DIR AB4 + M AB4Y OD4+ 800-950 DIR AB5 OD5 >950-1080 D AB5 + IR AB6 + M AB6Y OD6+ >1080-1090 DIR AB5 OD5+
cover layers LSP panel	inner side 1.0 mm, outer side 0.5 mm, cell core 9.6 mm (EN-AW-3003)
compressive strength DIN EN 53291	4.5 MPa
fire protection A2 -DIN EN 13501-1	A2-s1, D0 classification, non-combustibility -A2 - non-combustible -s1 - no smoke development -D0 - no flammable dripping/falling off
exposure limit values	du - beam diameter 1 mm P - Radiant power 1500 - 3000 watts $\alpha$ - beam angle 90° at 1000 mm t - exposure time 1500 W = 60 sec 2000 W = 45 sec 3000 W = 10 sec $\Lambda$ - Wavelength 700-1400 nm (IR-A)





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access control according to DIN EN 60825-4:2017-03	electromagnetic guard locking Keyence GS-M door closed guard locking active (illuminated green) door closed guard locking not active (flashes green) door open (lights up red) locking force approx. 30 N holding force approx. 500 N
illuminated warning display at the access points to the laser environment in accordance with the Optical Radiation Protection Ordinance (OStrV)	LED warning indicator on both sides left and right length 2000 mm door closed guard locking active (illuminated red) door open (lights up green)
emergency release	The emergency release makes it easy to open a door in an emergency and switches off the laser source at the same time.
external safety connection 24 V	Output for external safety connection of your laser source. The door must be closed (LED flashing green, as soon as the welding or cleaning process is started, the door is automatically locked (illuminated green).
wall distributors according to EN 61439-1:2011 EN 61439-4:2013 WV4/32 A	rated current 32 A rated voltage 230/400 V mains frequency 50/60 Hz max. load capacity 22 kW type of earth connection TN-C-S sockets 4x earthing contact 230 V, 2p 1x CEE 16 A 400 V, 5p 1x CEE 32 A 400 V, 5p input plug CEE 32A 400V, 5p fuse protection 1x FI 40 A 4p, 30 mA 4x LS 230 V/16 A 1p 1x LS 400 V/16 A 3p  IP class IP44 dimensions 28 x 11.8 x 34.9 cm weight 3.4 kg

### ATTENTION:

The laser protection composite panels from novoflow GmbH listed here are a semi-finished product intended for further processing. Damage to the primer cannot always be avoided with the primed surface, which is not provided with a protective film. Therefore, there is no claim to a visually good surface. Colour uniformity cannot be guaranteed.

