Brühl

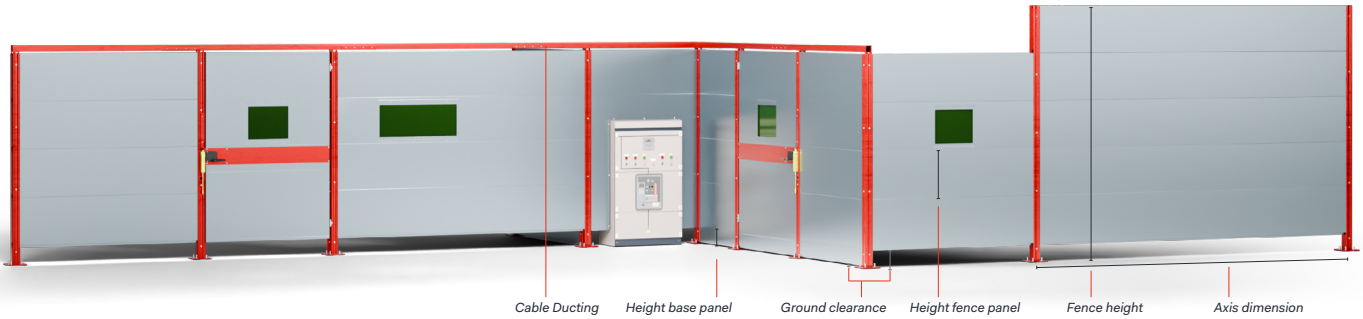
First in safety.

PRODUCT INFORMATION

Protective Fence System Eye Safety Fence

Flexible safety solution for industrial applications

FastLine



Flexible, efficient, refined

- Particularly simple and modular
- Highly cost-effective
- Single-person installation possible
- 3D models available
- Solid (non-transparent)

The *Eye Safety Fence (ESF)* is a flexibly configurable protective fence system for industrial installations with high safety requirements, such as welding or laser processing areas. It provides reliable visual and personnel protection, integrated equipotential bonding, and can be customised to suit specific project requirements. Thanks to lateral tolerance compensation and a hook-in system, the fence can be easily installed by a single person, even on uneven floors. The elements can be adjusted in width on site and, through overlapping installation, form a solid protective surface, including optional openings for technical integrations.

With your quotation, you will receive a free, detailed 3D model of your protective device via *ProService*.
Do you require further support? For maximum efficiency and safety, you can flexibly add our *ProTrim*, *ProDesign* and *ProMeasure* services.
Please note: optional service packages extend delivery times.

ProTrim
Factory pre-cutting of fence panels

ProDesign
Customised technical design

ProMeasure
Product consultation and on-site measurement

Send enquiry

Brühl Safety GmbH
Waldstraße 63 b · 57250 Netphen, Germany
Managing Director
Heinrich Brühl, Kai Wienecke

P +49 (0) 2737 - 5934 0
F +49 (0) 2737 - 5919 46
info@bruehl-safety.com
www.bruehl-safety.com

Your customised Eye Safety Fence

Combine our high-quality *FastLine* mesh panels, posts and doors to create your own *Eye Safety Fence* protective fence. *FastLine* products are stocked items and therefore available particularly quickly and cost-effectively.

If process monitoring is required, panel elements and doors can be equipped with viewing windows made of polycarbonate or welding protection material in customised widths.
For doors with a transom, please note that the transom is covered with a sheet metal element, reducing the clear height to 2200 mm. Further special designs are available on request.

Technical Data Protective Fence System Eye Safety Fence *FastLine*

Standard panel elements (mm)

Design	Height	Description	Window infill	Width	Axis dimension*
ESF-FE	500	Fence panel	O/P/SSB/SSG	Width - 40 mm	1000,1500,2000,2500,3000,3500,4000
ESF-BE	180	Base panel	O/P/SSB/SSG	Width - 40 mm	1000,1500,2000,2500,3000,3500,4000



The sheet metal panel elements are installed in an overlapping arrangement during assembly and interlock via their profile, creating a solid surface.

Posts (mm)

Design	Dimension	Description	Height	Base plate
ESF-DP	QR80	Passage post	2200, 2700	200 × 200
ESF-EPA	QR80	External corner post	2200, 2700	200 × 200
ESF-EPI	QR80	Internal corner post	2200, 2700	200 × 200
ESF-TP	QR80	T-junction post	2200, 2700	200 × 200



Cut-outs are integrated into the posts for hooking in the panel elements.
A clamping strip mounted at the front of the post prevents lateral displacement and unhooking of the panel elements.

Alternating wing door (mm)

Design	Door height	Window infill	Ground clearance	Clear width	Axis dimension* (Width + 150)
ESF-FTW	2200	O/P/SSB/SSG	20, 175	1000, 1200	1150, 1350
ESF-FTWO	2700	O/P/SSB/SSG	20, 175	1000, 1200	1150, 1350



The alternating wing door is equipped with a reversible handing system, allowing the DIN direction to be defined during installation.

Double alternating wing door (mm)

Design	Door height	Window infill	Ground clearance	Clear width	Axis dimension* (Width + 130)
ESF-DFTW	2200	O/P/SSB/SSG	20, 175	2075, 2475	2205, 2605
ESF-DFTWO	2700	O/P/SSB/SSG	20, 175	2075, 2475	2205, 2605



The double alternating door variant enables wide access openings for machinery or material handling.
It is self-supporting and has no central obstruction profile.

Sliding door (mm)

Design	Door height	Window infill	Ground clearance	Clear width	Axis dimension* (Width + 230)
ESF-STW	2200	O/P/SSB/SSG	20, 175	1000, 1500, 2000	1230, 1730, 2230
ESF-STWO	2700	O/P/SSB/SSG	20, 175	1000, 1500, 2000	1230, 1730, 2230



The laterally sliding door provides space-saving access to segregated areas.

* Axis dimension Centre-to-centre distance from post to post
O = none, P = polycarbonate, SSB = red-brown welding protection screen, SSG = green welding protection screen

Send enquiry

Further information *in detail on our website here*

The *Eye Safety Fence* is a robust separating protective device in accordance with:
↗ **Machinery Directive 2006/42/EG**, ↗ **EN ISO 12100**, ↗ **EN ISO 13857**, ↗ **EN ISO 14120** & ↗ **EN ISO 14119**.
It has been tested against an impact energy applied from the operator side of up to 1,600 joules and meets the requirements of ↗ **EN ISO 14120** as well as various corporate specification requirements.

Key advantages at a glance

- *Solid:* panel elements overlap during installation
- *Flexible widths:* panel elements can be cut to size
- *Installation-friendly:* panel elements are hooked into posts; single-person installation possible

Certified and tested quality

Brühl Safety is certified according to ↗ **EN ISO 9001:2015**. All products are tested in in-house laboratories using a pendulum test method in accordance with ↗ **EN ISO 14120 Annex C**. Only after proving durability in realistically simulated load tests are they approved for the market.

CE marking

All protective fence systems are CE marked as complete assemblies and comply fully with the current Machinery Regulation. You can find details *here*.

Add-on systems for safety switches

Additional mounting systems for safety switches are not included as standard with the safety doors.
Our full range is available *here*.

Colours and surfaces

For powder coating of your *ESF* protective fence, ten standard colours are available.
For a small surcharge, you can select from the full RAL colour range to match your corporate design.

Standard colours ESF Powder coating*

RAL 1021	RAL 1018	RAL 3020	RAL 5005	RAL 5017	RAL 7016	RAL 7035	RAL 7037	RAL 9005
Rape yellow	Zinc yellow	Traffic red	Signal blue	Traffic blue	Anthracite grey	Light grey	Dust grey	Jet black

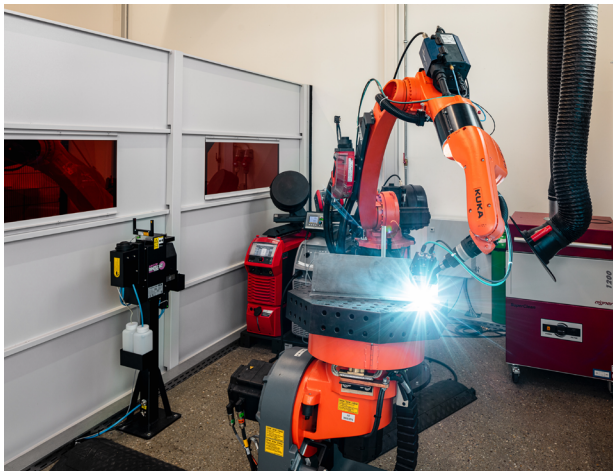
* Hot-dip galvanising available on request – plus 3 working days lead time

3D components available

In combination with *ProDesign*, we provide a 3D model of your project.

Send enquiry

The ESF system in use
Flexible, safe and installed directly on site











Send enquiry