



Schutzeinrichtungen

SAFETY FENCE SYSTEM
HIGH RESISTANT



SAFER THAN SAFE

BRÜHL SAFETY GUARDS

OUR PROMISE

Reliably safeguarding people and machinery:
This is the principle that we have always remained
committed to.

For more than 30 years we have developed state-of-the-art custom-designed safety fence systems. BRÜHL produces durable, high-quality safety guard systems. We provide the optimal solution for every application. After all, there are no compromises when it comes to safety. We work continuously and ambitiously on the optimisation of our safety technologies. BRÜHL boasts a highly specialised staff, competent customer service and the fact that the whole line of safety systems is manufactured exclusively in Germany. This enables us to produce top-quality safety guard solutions according to our principle: Safety is guaranteed.



CERTIFIED SAFETY FOR TOP PROTECTION. THE PENDULUM TEST

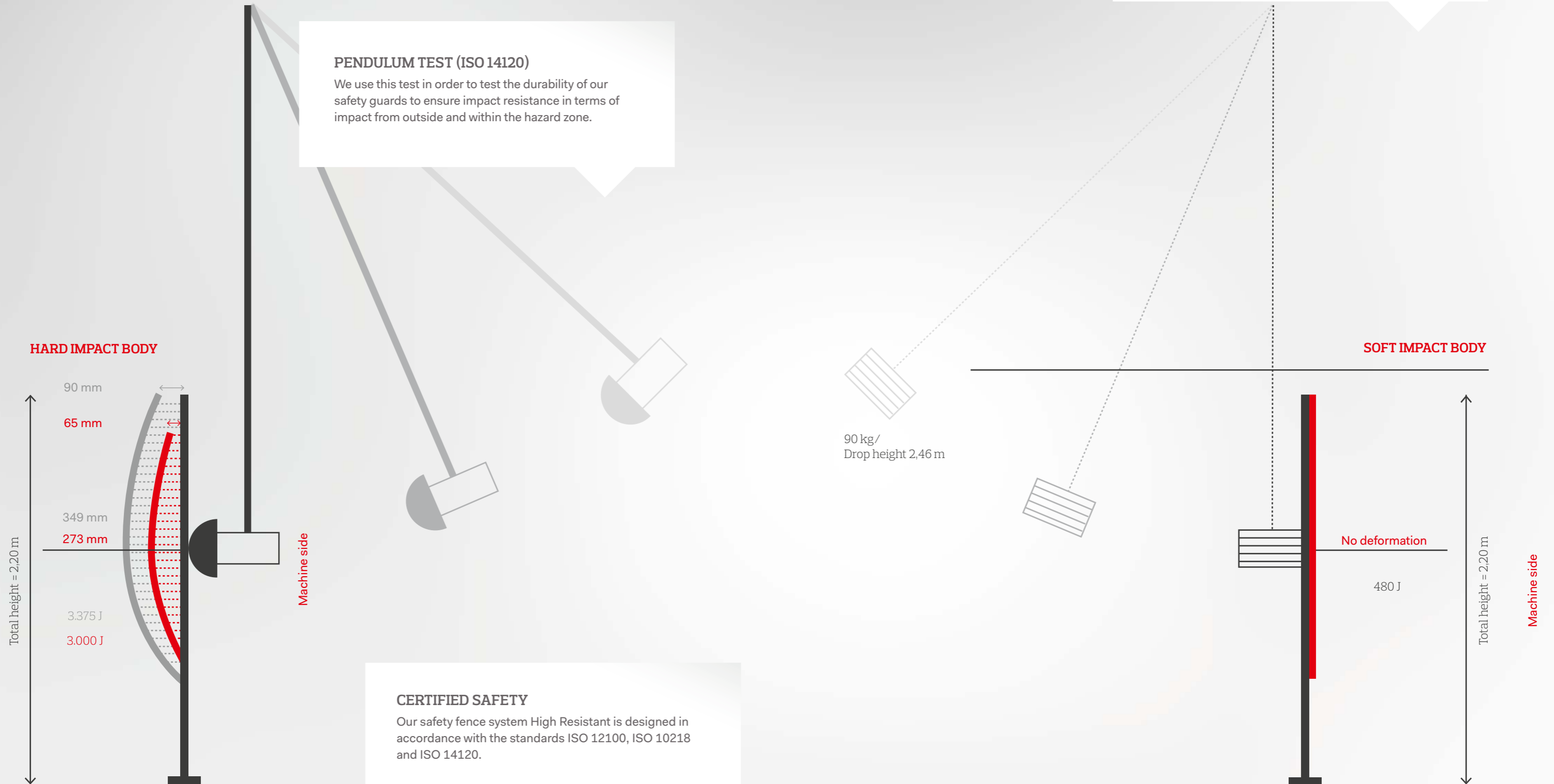
CUSTOMER SERVICE

We are always happy to help you with planning and selecting the right safety guard. The following risks should be considered:

- Impact on the robotic arm and machine (consider maximum speed of collision)
- Loss of material to be handled (consider maximum speed and maximum weight of material to be handled).

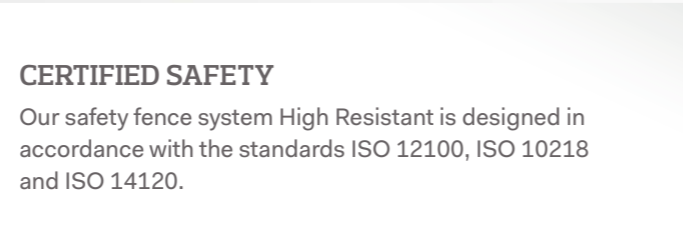
PENDULUM TEST (ISO 14120)

We use this test in order to test the durability of our safety guards to ensure impact resistance in terms of impact from outside and within the hazard zone.



CERTIFIED SAFETY

Our safety fence system High Resistant is designed in accordance with the standards ISO 12100, ISO 10218 and ISO 14120.



SAFETY FENCE SYSTEM HIGH RESISTANT

The robust safety fence system is a modular safety guard according to the Machinery Directive 2006/42/EG, DIN EN ISO 12100, ISO 10218-1, ISO 10218-2, DIN EN ISO 13857, DIN EN ISO 14119 and DIN EN ISO 14120.

It was primarily developed for safeguarding hazard zones for industrial robots from impact and material loss.

“High Resistant” is designed for the increased risk of mechanical collision of the robotic arm and the safety guard. Sections can be complemented and combined with Safety Fence Systems Fence II and Flex II. If access is required to the high risk zones protected by the Safety fence system HIGH RESISTANT, Brühl offers special inward-opening sliding doors and hinged doors.



SAFETY IS GUARANTEED

ALL ADVANTAGES AT-A-GLANCE

FRAME

- Frame profile 35 x 35 mm
- Bars for optimal stability

POSSIBLE COMBINATIONS

- Can be combined with Brühl safety fence systems Flex II and Fence II



BASE PLATE

- Sturdy four-hole base plate for optimal stability
- Fully welded connection of post profile and base plate



POSTS

- Stable steel posts 80 x 80 mm or 120 x 120 mm



MECHANICAL STOP

- L-profile clips on the inside of the upper safety fence area ensure stability of the mesh panels (protected utility model).



STANDARD MESH PANELS

FOR SAFETY FENCE SYSTEM "HIGH RESISTANT"

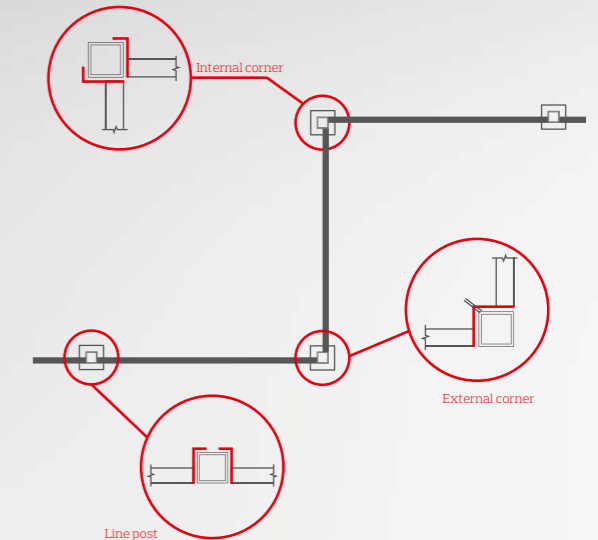
Fence Height	Product	Infill Material		Mesh Panel Height (Ground Clearance 175 mm)	Frame Profile	Mesh Panel Width		
		Flex II						
2200	HR-SZ2	-F		-2025	-35	-1000	-1500	-2000
2400	HR-SZ2	-F		-2225	-35	-1000	-1500	-2000
2600	HR-SZ2	-F		-2425	-35	-1000	-1500	-2000
2700	HR-SZ2	-F		-2525	-35	-1000	-1500	-2000

POSTS

FOR SAFETY FENCE SYSTEM "HIGH RESISTANT"

Fence Height	Product	Post type			Post Profile	
		Line post	Corner post Internal corner	Corner post External corner	80 x 80	120 x 120
2200	HR-SZ2	DP	EP-I	EP-A	80-80	120-120
2400	HR-SZ2	DP	EP-I	EP-A	80-80	120-120
2600	HR-SZ2	DP	EP-I	EP-A	80-80	120-120
2700	HR-SZ2	DP	EP-I	EP-A	80-80	120-120

FENCE PLANNING



SLIDING DOORS

The door posts of these doors are made of a sturdy steel profile with welded four-hole base plates. The special profile, durable steel rollers and polyamide guides guarantee very smooth and precise opening and closing. The door leaf opens on the machine side.

HINGED DOORS

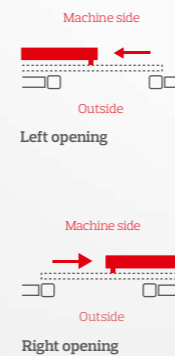
The strike posts and hinge posts for these door sets are made from a sturdy steel profile with welded four-hole base plates. Both door posts are prepared for use as corner or line posts. Owing to the positioning of the welded-on hinges, the door cannot be lifted off its hinges. The door leaf is specially constructed for inward opening.

SLIDING DOOR FOR HANDLE, OPENING ON MACHINE SIDE "HIGH RESISTANT"

Fence Height	Product	Opening Direction		Post Profile		Infill Material Flex II (20 x 200 mm)	Fence Height	Clear Opening			
		Left Opening	Right Opening	80 x 80	120 x 120						
2200	HR-STG	-L	-R	-80	-120	-Z-F	-2200	-800	-1000	-1200	-1400
2400	HR-STG	-L	-R	-80	-120	-Z-F	-2400	-800	-1000	-1200	-1400
2600	HR-STG	-L	-R	-80	-120	-Z-F	-2600	-800	-1000	-1200	-1400
2700	HR-STG	-L	-R	-80	-120	-Z-F	-2700	-800	-1000	-1200	-1400

SLIDING DOOR WITH MORTISE LOCK, OPENING ON MACHINE SIDE "HIGH RESISTANT"

2200	HR-ST5	-L	-R	-80	-120	-Z-F	-2200	-800	-1000	-1200	-1400
2400	HR-ST5	-L	-R	-80	-120	-Z-F	-2400	-800	-1000	-1200	-1400
2600	HR-ST5	-L	-R	-80	-120	-Z-F	-2600	-800	-1000	-1200	-1400
2700	HR-ST5	-L	-R	-80	-120	-Z-F	-2700	-800	-1000	-1200	-1400

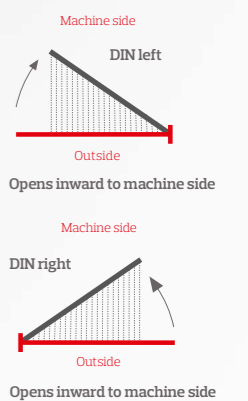


INWARD OPENING HINGED DOOR FOR HANDLE OR LATCH "HIGH RESISTANT"

Fence Height	Product	Handing		Post Profile		Infill Material Flex II (20 x 200 mm)	Fence Height	Clear Opening			
		DIN Left	DIN Right	80 x 80	120 x 120						
2200	HR-FTREO	-L	-R	-80	-120	-Z-F	-2200	-800	-1000	-1200	-1400
2400	HR-FTREO	-L	-R	-80	-120	-Z-F	-2400	-800	-1000	-1200	-1400
2600	HR-FTREO	-L	-R	-80	-120	-Z-F	-2600	-800	-1000	-1200	-1400
2700	HR-FTREO	-L	-R	-80	-120	-Z-F	-2700	-800	-1000	-1200	-1400

INWARD OPENING HINGED DOOR WITH MORTISE LOCK, "HIGH RESISTANT"

Clear Opening											
2200	HR-FTSEO	-L	-R	-80	-120	-Z-F	-2200	-800	-1000	-1200	-1400
2400	HR-FTSEO	-L	-R	-80	-120	-Z-F	-2400	-800	-1000	-1200	-1400
2600	HR-FTSEO	-L	-R	-80	-120	-Z-F	-2600	-800	-1000	-1200	-1400
2700	HR-FTSEO	-L	-R	-80	-120	-Z-F	-2700	-800	-1000	-1200	-1400



Brühl

Schutzeinrichtungen

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