

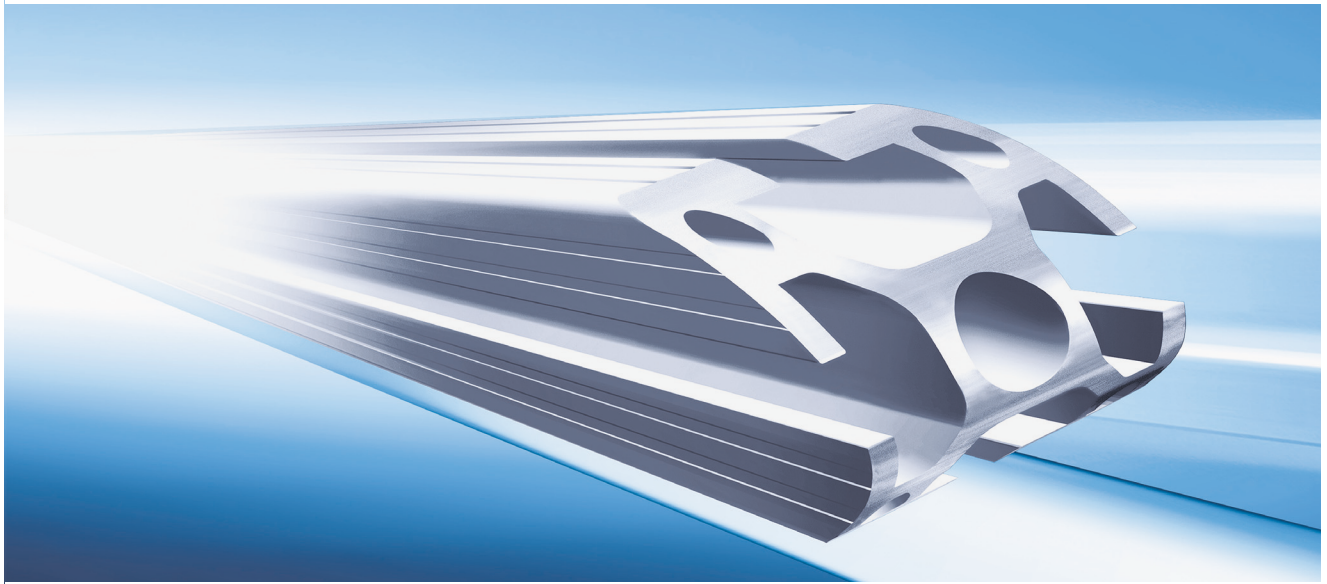


» Safety barriers

GB
1/2023

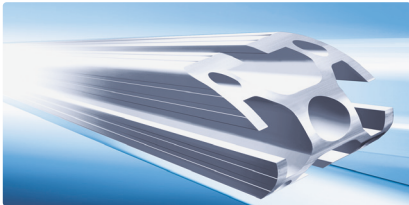
 **MayTec**[®]

The key ...



» The Profile System

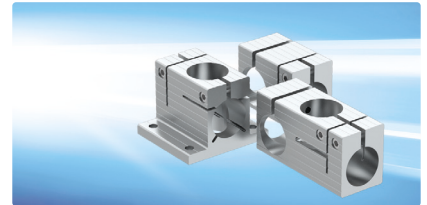
powered by
MayCAD
Design Software



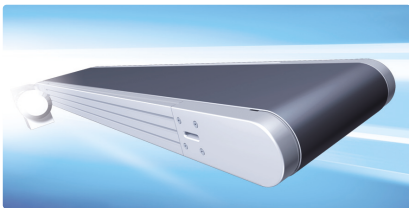
The Profile System



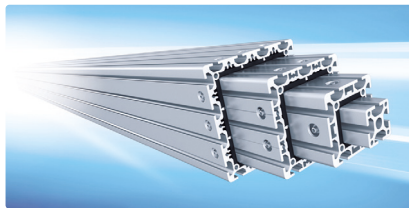
The Clean-Room System



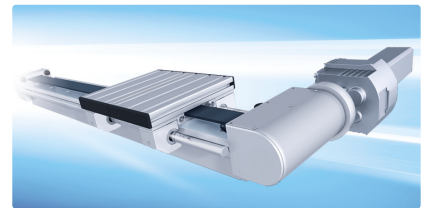
The Tube Clamping System



The Conveyor System



The Telescopic System



The Linear System



The Personnel Transfer System



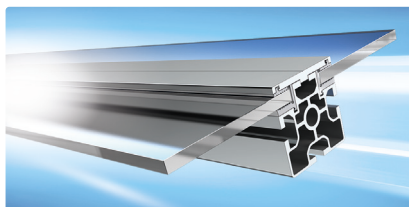
The Skid Transfer System



The Dust Protection System



Safety Barriers

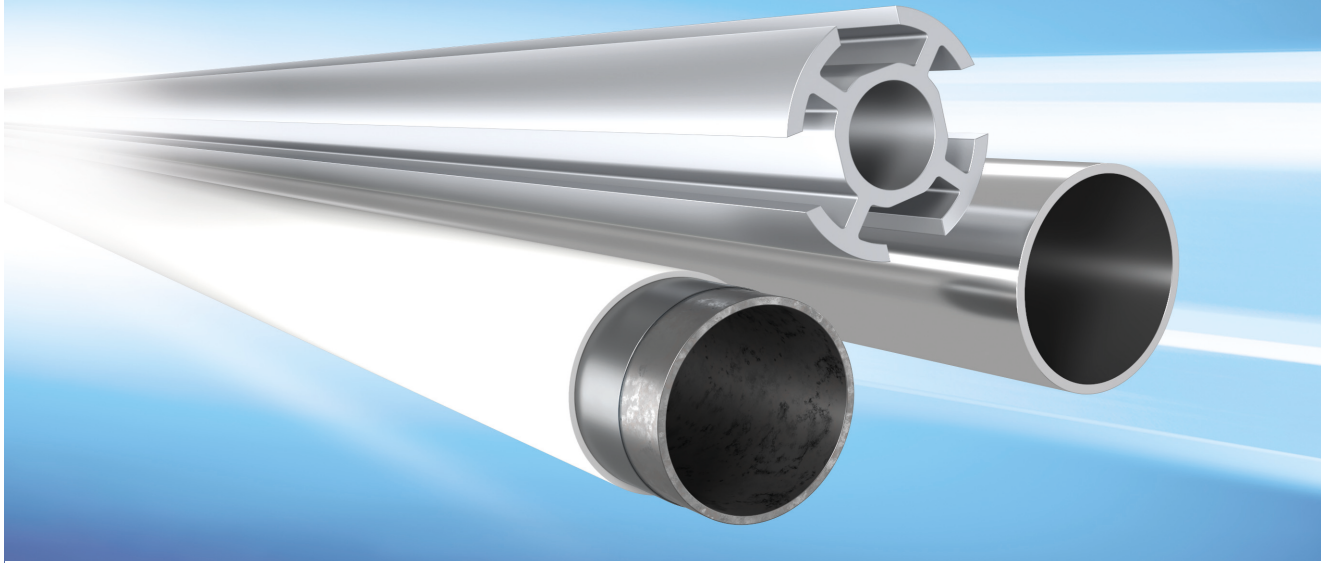


The Modular Wall System



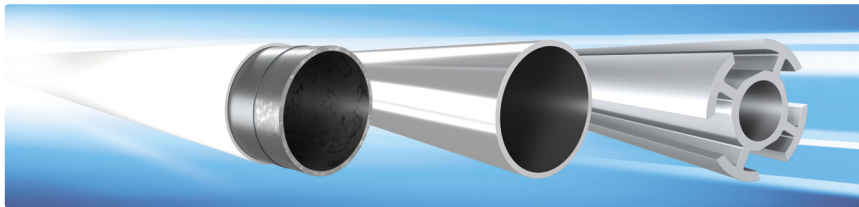
Noise Resist

... to success !



» The Pipe & Joint System

powered by
MayTube
 Design Software



The Pipe & Joint System



The Trailer System

The ideal modular system

MayTec offers a comprehensive, harmonised modular system. All modules can be combined in any way conceivable.

The accessories provide functional and aesthetic solutions for a wide range of applications.

Service

The MayTec service is as versatile as the MayTec modular system.

You may choose:

- delivery of standard elements ex-factory
- delivery of profiles, pipes and accessories cut to size according to parts list for customer's assembly
- delivery of pre-fitted modular components
- delivery of completely assembled units
- assembly at your premises


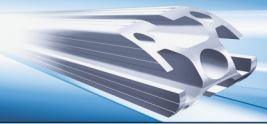
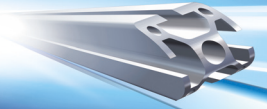
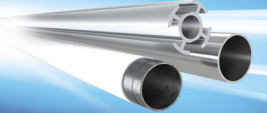

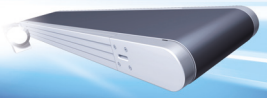
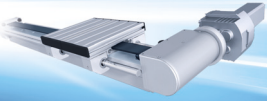
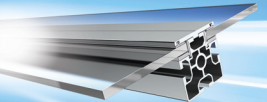

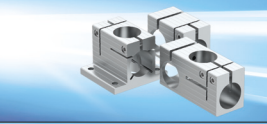
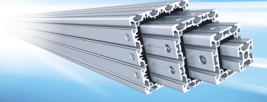

Implementation

The MayTec modular system is easy to process and quick to assemble. Its flexible and modular construction means it can be easily modified and is reusable at any time.

An experienced team will support you in implementing the MayTec system, tailored to your individual applications, taking into consideration your dimensions, loading capacity and stability.

Applications

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> • assembly and inspection stations • display systems • exhibition cabinets and stands • FiFo shelves • flow shelves | <ul style="list-style-type: none"> • machine bases • machine enclosures • machine guarding • partitions and protective walls • plant equipment | <ul style="list-style-type: none"> • protective and work cabinets • sequence trolleys • special shelves • transfer and supply trolleys • work stations |
|---|---|---|

	Title	DE	GB	FR	ES	IT	CZ
	Product Summary	•	•	•	•	•	•
	The Profile System	•	•	•	•	•	
	The Inch System		•				
	The Pipe & Joint System	•	•		•	•	
	The Trailer System	•	•			•	
	The Conveyor System	•	•	•		•	
	The Linear System	•	•				
	The Modular Wall System	•	•			•	
	Safety Barriers	•	•				
	The Tube Clamping System	•					
	The Telescopic System	•	•			•	
	MayCAD / MayTube	•	•	•	•	•	

 Download at <http://maytec.com.de>

	Page
Frame variations	3
Unit without frame	3
Unit with frame	3
Mounting of panel elements	4
Classifications.....	5
Standard unit dimensions	6
Safety barriers: Designs.....	7
Safety barrier unit without frame.....	7
Safety barrier unit with frame	8
Single hinged door.....	9
Double hinged door.....	10
Sliding door.....	11
Profiles.....	12
Profile group 40, E3-slot, P (plain).....	12
Profile group 40, E3-slot	12
Profile group 45, E4-slot, P (plain).....	12
Panel profiles 30, F-slot, P (plain)	13
Panel profiles 40, E3-slot, P (plain)	14
Panel profiles 50, E4-slot, P (plain)	15
Wire net profiles 30, F-slot, P (plain)	16
Wire net profiles 40, F / E3-slot, P (plain)	16
Standards for guards	17
Static load	18
Dynamic load	19
Test layout.....	19
Safety barrier unit without frame.....	20
Safety barrier unit with frame	21

Design: Unit without frame



Design: Unit with frame

Fastening with brackets



Design: Unit with frame


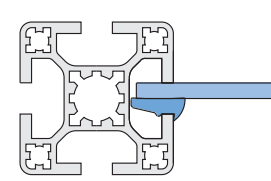
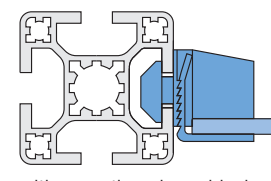
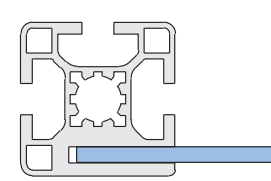
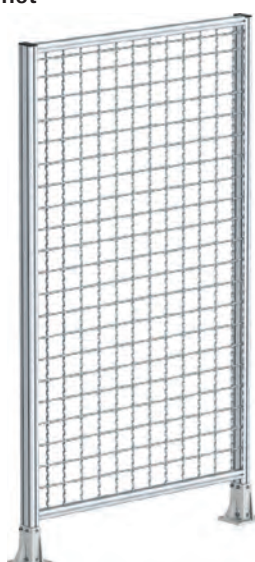
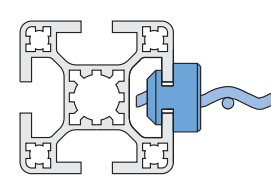
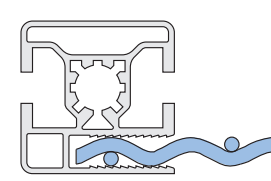
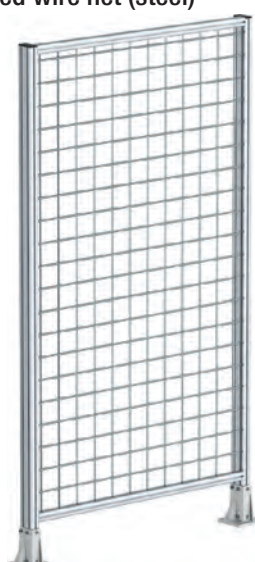
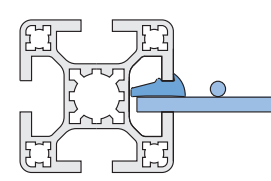
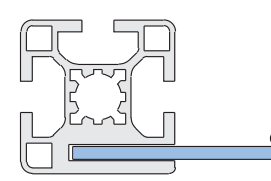
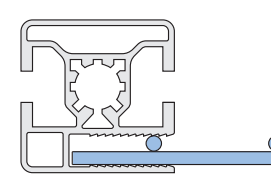
Fastening with angles

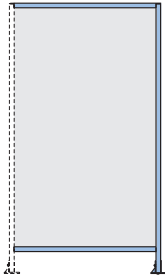
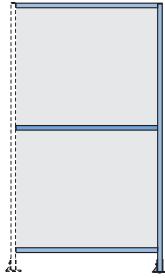
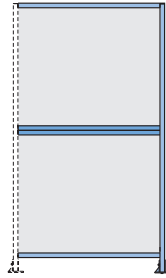
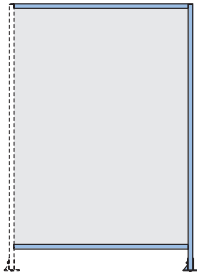
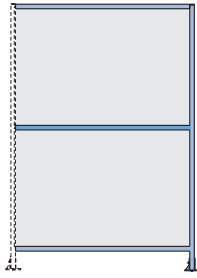
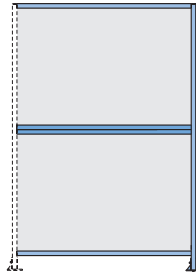
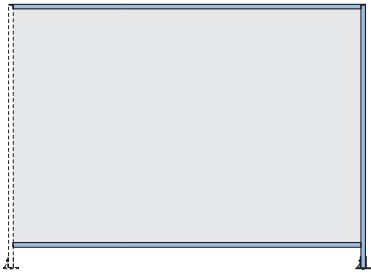
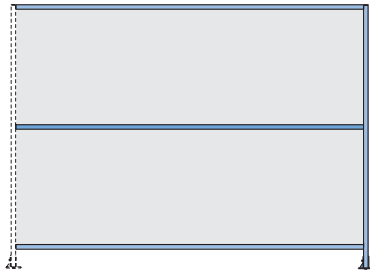
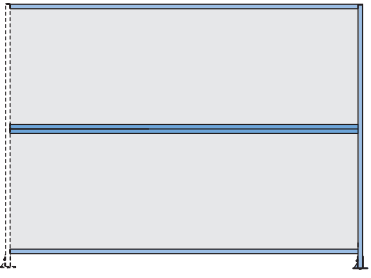
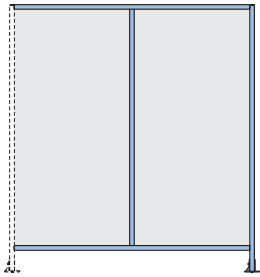
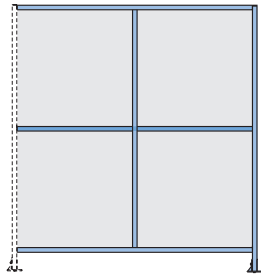
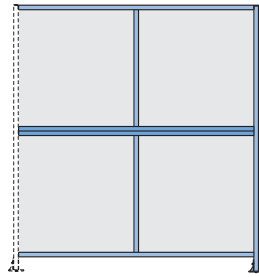
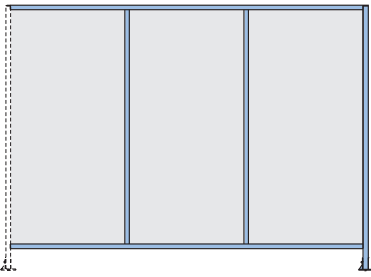
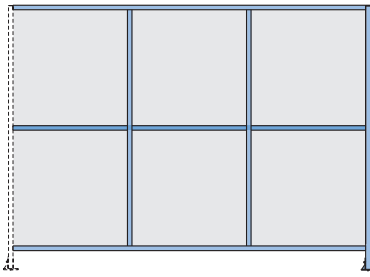
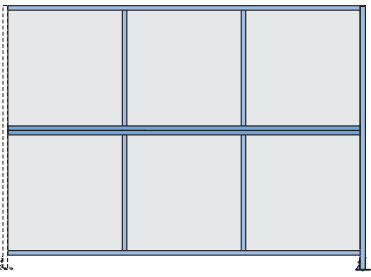


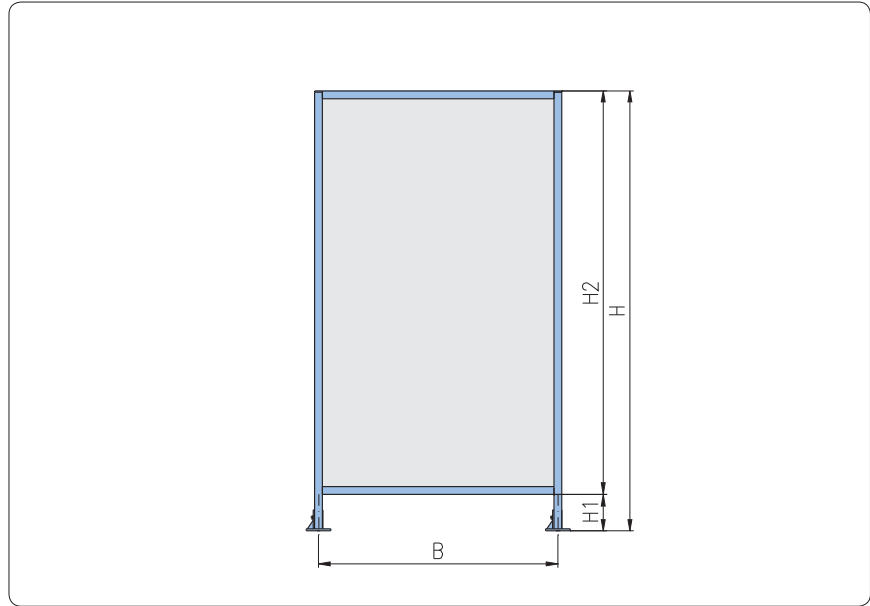
Design: Unit with frame

Fastening with hanging brackets

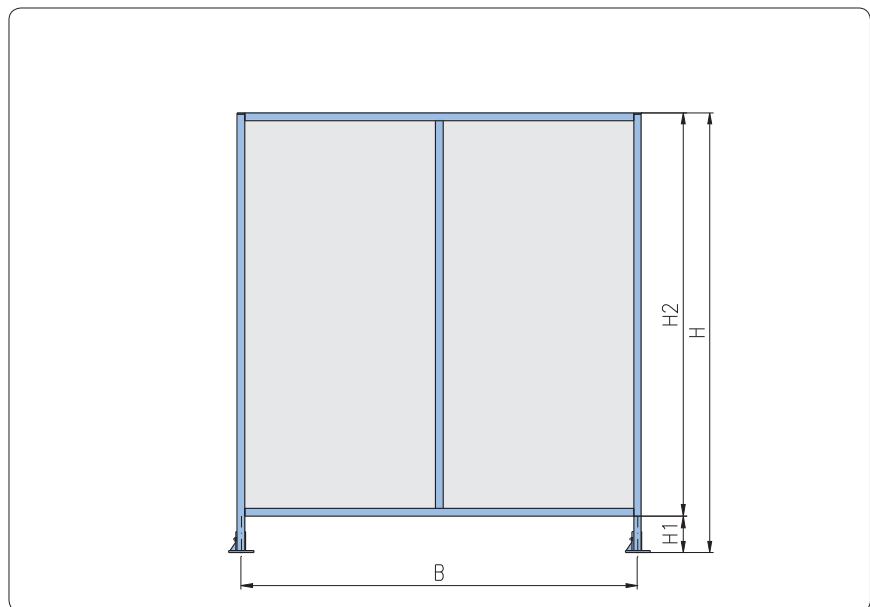


Panel element	Frame profile		
	Standard	Panel	Wire net
<p>Polycarbonate</p> 	 <p>with wedge profile</p>  <p>with mounting clamp blocks</p>		
<p>Wire net</p> 	 <p>with mounting sockets</p>		
<p>Welded wire net (steel)</p> 	 <p>with wedge profile</p>		

without cross strut	with cross strut	divided
		
		
		
		
		

Single panel unit


H	H1		B				
1,800	200	300	250	500	750	1,000	1,250
2,000							
2,200							
2,300							
2,300							

Double panel unit


H	H1		B			
1,800	200	300	1,500	1,750	2,000	2,500
2,000						
2,200						
2,300						
2,300						

**Safety barrier unit:
without frame**


Unit			Post														
Panel element	Frame profile			Mounting			Post profile										
	Standard	Pa- nel	Wire net	of panel element			Standard						Panel				
	40×40, 4E	45×45, 4E	40×40	30×30	40×40	wedge profile	m. clamp blocks	mounting sockets	40×40	40×80	80×80	80×80, corner	45×45	45×90	60×80 5E	60×80 6E	
Polycarbonate trans- parent	4 mm	•					•	•		•	•	•	•				
			•				•	•					•	•			
				•												•	•
Wire net	alu	3×20×20 mm	•						•	•	•	•					
				•									•	•			
		4×30×30 mm	•							•	•	•	•				
	steel	4×30×30 mm, 4×40×40 mm	•							•	•	•	•				
				•										•	•		
		4×30×30 mm, 4×40×40 mm	•							•	•	•	•				
Welded wire net (steel)	3×25×25 mm	•					•		•	•	•	•					
			•										•	•			
	4×40×40 mm	•							•	•	•	•					
			•											•	•		
Welding protecting glass	4 mm	•					•		•	•	•	•					
			•										•	•			
				•												•	•

**Safety barrier unit:
with frame**


Unit			Post												Fastening					
Panel element	Frame profile					Mounting			Post profile						of element					
	Standard		Pa- nel	Wire net		of panel element			Standard				Panel							
	40×40, 4E	45×45, 4E	40×40	30×30	40×40	wedge profile	m. clamp blocks	mounting sockets	40×40	40×80	80×80	80×80, corner	45×45	45×90	60×80 5E	60×80 6E	haning bracket	angle	bracket	
Polycarbonate trans- parent	4 mm					•	•		•	•	•	•					•	•	•	
		•				•	•					•	•				•	•	•	
			•												•	•	•	•	•	
Wire net	alu	3×20×20 mm	•					•	•	•	•						•	•	•	
			•						•			•	•				•	•	•	
		4×30×30 mm	•						•	•	•	•					•	•	•	
	steel	4×30×30 mm, 4×40×40 mm				•	•		•	•	•	•	•	•				•	•	
			•						•									•	•	•
					•	•				•	•	•	•	•				•	•	
										•	•	•	•	•				•	•	•
Welded wire net (steel)	3×25×25 mm		•			•			•	•	•	•					•	•	•	
		•					•					•	•				•	•	•	
	4×40×40 mm		•			•			•	•	•	•					•	•	•	
		•					•						•	•				•	•	•
Welding protecting glass	green- brown	4 mm	•			•			•	•	•	•					•	•	•	
			•				•					•	•				•	•	•	
				•											•	•		•	•	•

Single hinged door


Unit			Post														
Panel element	Frame profile			Mounting			Post profile										
	Standard	Panel	Wire net	of panel element			Standard						Panel				
	40×40, 4E	45×45, 4E	40×40	30×30	40×40	wedge profile	m. clamp blocks	mounting sockets	40×40	40×80	80×80	80×80, corner	45×45	45×90	60×80 5E	60×80 6E	
Polycarbonate transparent	4 mm					•	•		•	•	•	•					
		•				•	•						•	•			
			•												•	•	
Wire net	alu	3×20×20 mm						•	•	•	•						
			•					•				•	•				
		4×30×30 mm	•						•	•	•	•					
	steel				•	•				•	•	•					
		4×30×30 mm, 4×40×40 mm	•						•	•	•	•					
			•						•				•	•			
Welded wire net (steel)	3×25×25 mm					•			•	•	•	•					
		•					•					•	•				
	4×40×40 mm	•							•	•	•	•					
			•										•	•			
Welding protecting glass	green-brown	4 mm				•			•	•	•	•					
			•										•	•			
				•												•	•

Double hinged door


Unit			Post												Locking					
			Frame profile			Mounting			Post profile											
Panel element			Standard	Pa- nel	Wire net		of panel element			Standard						Panel				
			40×40, 4E	45×45, 4E	40×40	30×30	40×40	wedge profile	m. clamp blocks	mounting sockets	40×40	40×80	80×80	80×80, corner	45×45	45×90	60×80 5E	60×80 6E	top	bottom
Polycarbonate trans- parent	4 mm	•					•	•		•	•	•	•					•	•	
			•				•	•						•	•			•	•	
				•													•	•	•	•
Wire net	alu	3×20×20 mm	•						•	•	•	•						•	•	
				•										•	•			•	•	
		4×30×30 mm	•							•	•	•	•					•	•	
	steel	4×30×30 mm, 4×40×40 mm				•	•			•	•	•	•	•	•				•	•
			•							•									•	•
					•	•				•	•	•	•	•	•				•	•
										•	•	•	•	•	•				•	•
Welded wire net (steel)	3×25×25 mm	•					•		•	•	•	•						•	•	
			•										•	•				•	•	
	4×40×40 mm	•					•		•	•	•	•						•	•	
			•							•				•	•				•	•
Welding protecting glass	4 mm	•					•		•	•	•	•						•	•	
			•										•	•				•	•	
				•												•	•		•	•

Sliding door


Unit			Post																
Panel element	Frame profile					Mounting			Post profile										
	Standard		Pa- nel	Wire net		of panel element			Standard							Panel			
	40×40, 4E	45×45, 4E	40×40	30×30	40×40	wedge profile	m. clamp blocks	mounting sockets	40×40	40×80	80×80	80×80, corner	45×45	45×90	60×80 5E	60×80 6E			
Polycarbonate trans- parent	4 mm	•				•	•		•	•	•	•							
			•				•	•					•	•					
				•												•	•		
Wire net	alu	3×20×20 mm	•					•	•	•	•								
				•					•				•	•					
		4×30×30 mm	•						•	•	•	•							
	steel	4×30×30 mm, 4×40×40 mm			•	•			•	•	•	•	•	•					
			•						•					•	•				
					•	•				•	•	•	•	•	•				
										•	•	•	•	•	•		•		
Welded wire net (steel)	3×25×25 mm	•				•			•	•	•	•							
			•				•						•	•					
	4×40×40 mm	•				•			•	•	•	•							
			•				•						•	•					
Welding protecting glass	4 mm	•				•			•	•	•	•							
			•				•						•	•					
				•												•	•		

light				
Description	Profile 40×40, 4E, LP	Profile 40×80, 6E, LP	Profile 80×80, 8E, LP	
bar, 6 m	1.11.040040.43LP.60	1.11.040080.64LP.60	1.11.080080.83LP.60	
packing unit (number)	1.11.040040.43LP.61 (8)	1.11.040080.64LP.61 (4)	1.11.080080.83LP.61 (2)	
moment of inertia cm ⁴	$I_x = 9.9$ $I_y = 9.9$	$I_x = 62.7$ $I_y = 17.7$	$I_x = 114.0$ $I_y = 114.0$	
moment of resistance cm ³	$W_x = 4.9$ $W_y = 4.9$	$W_x = 15.6$ $W_y = 8.8$	$W_x = 28.4$ $W_y = 28.4$	
weight kg/m	G = 1.5	G = 2.5	G = 4.1	

Profile group 40 mm, E3-slot

Profile group 45 mm, E4-slot, P (plain)

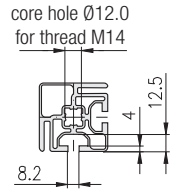
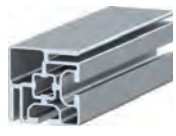
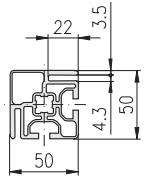
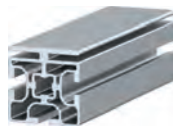
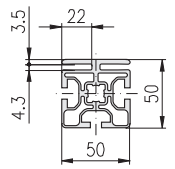
heavy		light		
Description	Profile 80×80, 8E, angle, S	Description	Profile 45×45, 4E, LP	Profile 45×90, 6E, LP
bar, 6 m	1.11.080080.87S.60	bar, 6 m	1.11.045045.43LP.60	1.11.045090.64LP.60
packing unit (number)	1.11.080080.87S.61 (2)	packing unit (number)	1.11.045045.43LP.61 (8)	1.11.045090.64LP.61 (4)
moment of inertia cm ⁴	$I_x = 120.0$ $I_y = 120.0$	Trägheitsmoment cm ⁴	$I_x = 13.5$ $I_y = 13.5$	$I_x = 98.0$ $I_y = 27.5$
moment of resistance cm ³	$W_x = 23.8$ $W_y = 23.8$	Widerstandsmoment cm ³	$W_x = 6.0$ $W_y = 6.0$	$W_x = 21.8$ $W_y = 12.2$
weight kg/m	G = 6.3	Gewicht kg/m	G = 1.9	G = 3.3

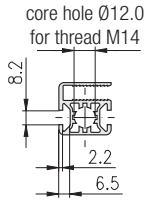
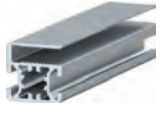
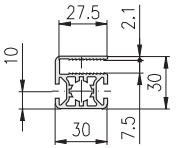
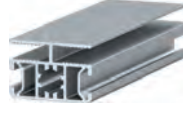
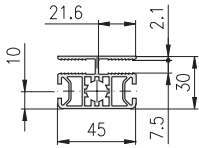
<div style="border: 1px solid black; border-radius: 5px; padding: 2px; display: inline-block; background-color: #e0e0e0;">light</div> 	 	 	 	 	
	Description	Panel profile 30×30, OF, LP	Panel profile 30×30, 2F, corner, LP 4	Panel profile 30×30, 3F, LP 4	Panel profile 30×50, 3F, LP 4
	bar, 6 m	1.14.030030.03LP0.60	1.14.030030.22LP4.60	1.14.030030.33LP4.60	1.14.030050.34LP4.60
	packing unit (number)	1.14.030030.03LP0.61(10)	1.14.030030.22LP4.61(10)	1.14.030030.33LP4.61(10)	1.14.030050.34LP4.61 (6)
	moment of inertia cm ⁴ moment of resistance cm ³ weight kg/m	$I_x = 3.8$ $I_y = 3.8$ $W_x = 2.4$ $W_y = 2.4$ G = 1.1	$I_x = 3.3$ $I_y = 3.3$ $W_x = 2.2$ $W_y = 2.2$ G = 1.0	$I_x = 3.3$ $I_y = 2.8$ $W_x = 2.2$ $W_y = 1.8$ G = 0.9	$I_x = 5.5$ $I_y = 11.8$ $W_x = 3.6$ $W_y = 4.8$ G = 1.5

<div style="border: 1px solid black; border-radius: 5px; padding: 2px; display: inline-block; background-color: #e0e0e0;">light</div> 	 	 	 	
	Description	Panel profile 30×30, 2F, LP 5	Panel profile 30×50, 2F, LP 5	Panel profile 30×30, 2F, LP 6
	bar, 6 m	1.14.030030.23LP5.60	1.14.030050.24LP5.60	1.14.030030.23LP6.60
	packing unit (number)	1.14.030030.23LP5.61(10)	1.14.030050.24LP5.61(10)	1.14.030030.23LP6.61 (6)
	moment of inertia cm ⁴ moment of resistance cm ³ weight kg/m	$I_x = 4.3$ $I_y = 3.3$ $W_x = 2.8$ $W_y = 2.2$ G = 1.2	$I_x = 7.0$ $I_y = 14.7$ $W_x = 4.7$ $W_y = 5.9$ G = 1.9	$I_x = 3.6$ $I_y = 2.8$ $W_x = 2.4$ $W_y = 1.9$ G = 1.0

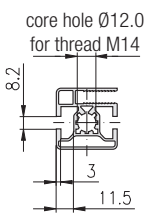
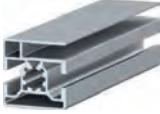
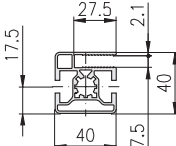
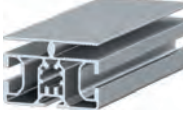
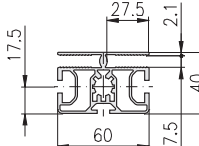
<p>light</p>					
	Description	Panel profile 40×40, 2E, corner, LP 4	Panel profile 40×40, 3E, LP 4	Panel profile 40×60, 3E, LP 4	Panel profile 60×80, 5E, LP 4
	bar, 6 m	1.14.040040.22LP4.60	1.14.040040.33LP4.60	1.14.040060.34LP4.60	1.14.060080.54LP4.60
	packing unit (number)	1.14.040040.22LP4.61 (8)	1.14.040040.33LP4.61 (8)	1.14.040060.34LP4.61 (8)	1.14.060080.54LP4.61 (4)
moment of inertia cm ⁴	$I_x = 10.3$ $I_y = 10.3$	$I_x = 10.2$ $I_y = 8.7$	$I_x = 14.8$ $I_y = 26.3$	$I_x = 100.4$ $I_y = 50.4$	
moment of resistance cm ³	$W_x = 5.2$ $W_y = 5.2$	$W_x = 5.1$ $W_y = 4.3$	$W_x = 7.4$ $W_y = 8.8$	$W_x = 25.1$ $W_y = 16.8$	
weight kg/m	G = 1.8	G = 1.65	G = 2.4	G = 3.8	

<p>light</p>	Profile for door stop				
	Description	Panel profile 60×80, 6E, LP 4	Profile 20×30, 1F, LP	Assembly drawing	Assembly drawing
	bar, 6 m	1.14.060080.64LP4.60	1.11.020030.14LP.60		
packing unit (number)	1.14.060080.64LP4.61 (4)	1.11.020030.14LP.61 (10)			
moment of inertia cm ⁴	$I_x = 88.1$ $I_y = 52.0$	$I_x = 2.2$ $I_y = 1.4$	$I_x = 113.0$ $I_y = 64.0$	$I_x = 89.2$ $I_y = 53.3$	
moment of resistance cm ³	$W_x = 22.1$ $W_y = 17.3$	$W_x = 1.5$ $W_y = 1.4$	$W_x = 28.5$ $W_y = 21.3$	$W_x = 22.3$ $W_y = 17.7$	
weight kg/m	G = 3.7	G = 0.7	G = 4.5	G = 4.4	

<p style="text-align: center;">light</p> 	 	 		
Description	Panel profile 50×50, 2E, corner, LP 4	Panel profile 50×50, 3E, LP 4		
bar, 6 m	1.14.050050.22LP4.60	1.14.050050.39LP4.60		
packing unit (number)	1.14.050050.22LP4.61 (6)	1.14.050050.39LP4.61 (6)		
moment of inertia cm ⁴	$I_x = 19.4$ $I_y = 19.4$	$I_x = 24.1$ $I_y = 21.4$		
moment of resistance cm ³	$W_x = 7.6$ $W_y = 7.6$	$W_x = 8.0$ $W_y = 8.5$		
weight kg/m	G = 2.4	G = 2.7		

light				
	 	 		
Description	Wire net profile 30×30, 2F, LP 7.5	Wire net profile 30×45, 2F, LP 7.5		
bar, 6 m	1.15.030030.23LP7.60	1.15.030045.24LP7.60		
packing unit (number)	1.15.030030.23LP7.61(10)	1.15.030045.24LP7.61 (8)		
moment of inertia cm ⁴	$I_x = 2.6$ $I_y = 3.2$	$I_x = 4.3$ $I_y = 7.4$		
moment of resistance cm ³	$W_x = 1.7$ $W_y = 2.1$	$W_x = 2.9$ $W_y = 3.3$		
weight kg/m	$G = 0.86$	$G = 1.15$		

Wire net profiles 40, F / E3-slot, P (plain)

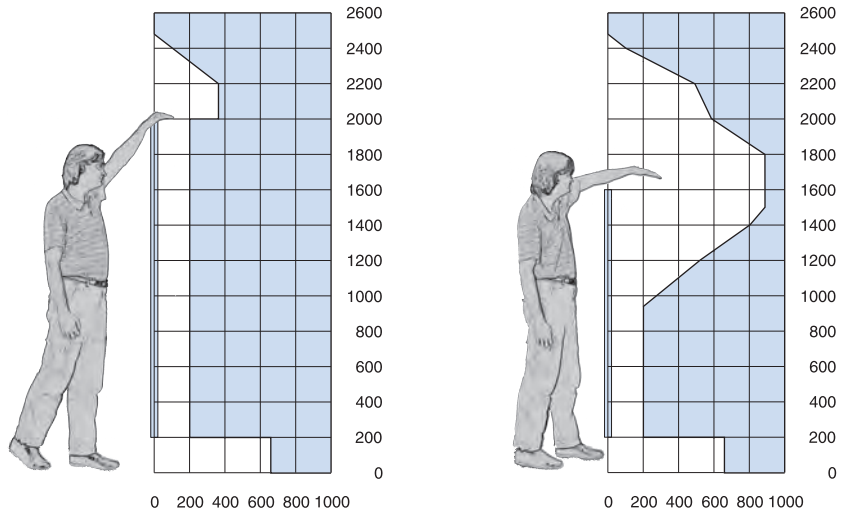
light				
	 	 		
Description	Wire net profile 40×40, 2E, LP 7.5	Wire net profile 40×60, 2E, 1F, LP 7.5		
bar, 6 m	1.15.040040.23LP7.60	1.15.040060.34LP7.60		
packing unit (number)	1.15.040040.23LP7.61 (8)	1.15.040060.34LP7.61 (8)		
moment of inertia cm ⁴	$I_x = 7.5$ $I_y = 8.2$	$I_x = 12.2$ $I_y = 22.5$		
moment of resistance cm ³	$W_x = 3.8$ $W_y = 4.1$	$W_x = 6.1$ $W_y = 7.5$		
weight kg/m	$G = 1.35$	$G = 1.97$		

Standards for guards

Besides the essential safety requirements of the **machinery directive 98/37/EC** and the **DIN EN ISO 12100 part 1+2 - safety of machinery** - the following standards (Type B Standards) apply when designing guards, e.g. safety barriers.

EN 294 - Safety distances to prevent danger zones being reached by the upper limbs

The safety distances depend on the height and size of the opening in the safety guard. A mesh size of 40x40 mm requires a safety distance of 200 mm. The following figures show the safety distance profiles in accordance with **EN 294** and **EN 811** for two different heights of the safety barrier. The safety distance layout of a concrete safety barrier always requires a risk assesment according to **DIN EN ISO 12100**.

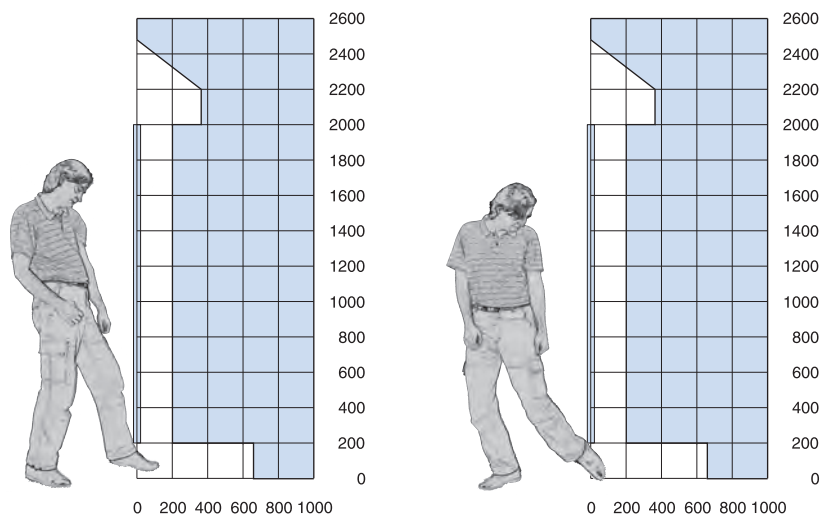


EN 811 - Safety distances to prevent danger zones being reached by the lower limbs

When the following preconditions are fulfilled EN 811 allows greater openings than EN 294:

- the related persons are at least 14 years old
- it is justifiable predictable that for reaching the hazardous area only the lower limbs are used.

In accordance with EN 811 openings greater than 180 mm (slit shaped) or 240 mm (square / circular type) allow access to the whole body. Besides this an extended rule exists for ground clearance, where access from upright position is assumed. Ground clearance of 200 mm results in a safety distance of 665 mm for the feet area, as it is shown in the following figures.



DIN EN 953 - Guards

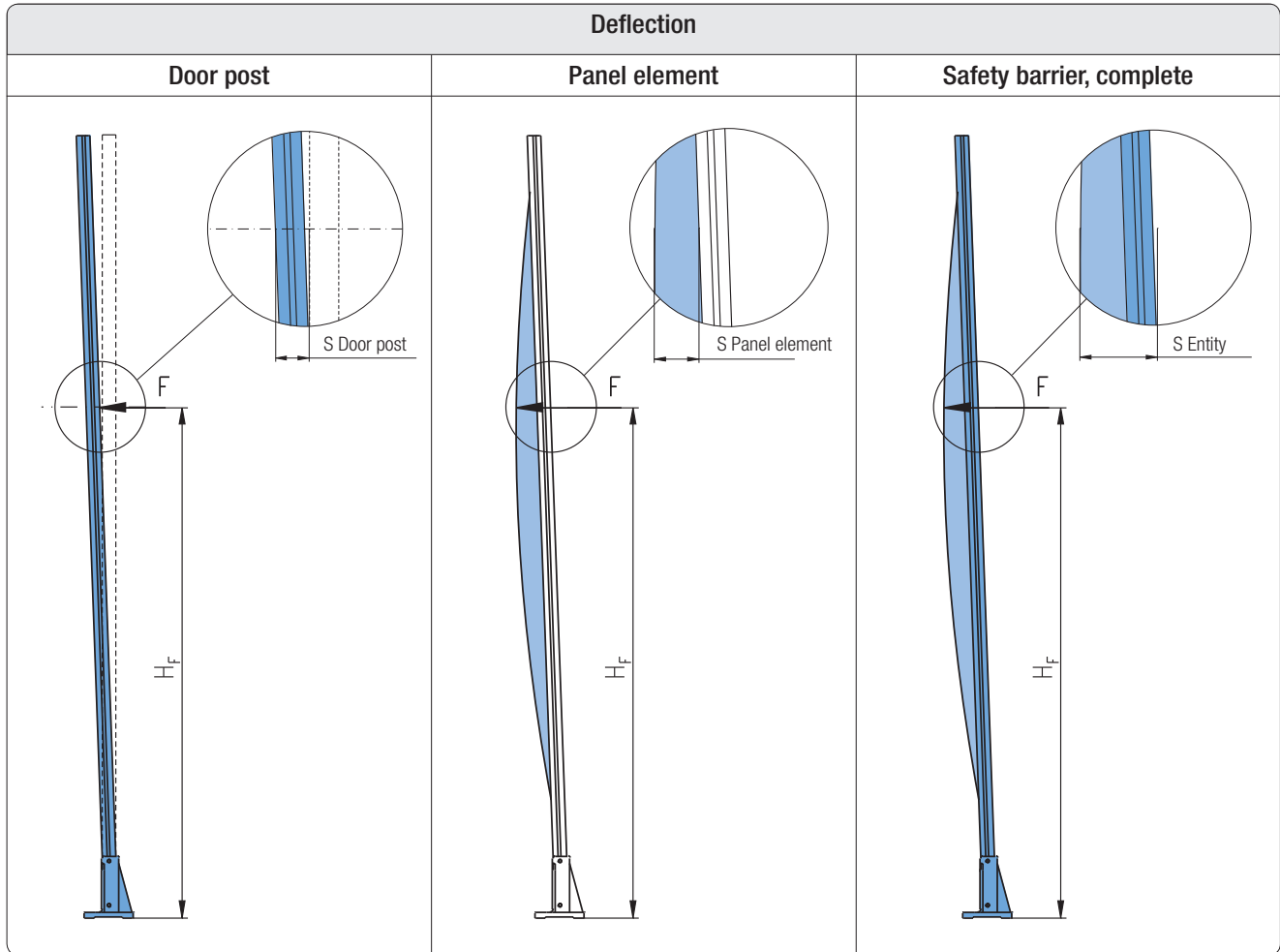
General requirements for the design and construction of fixed and movable guards

Note

If for a certain machinery a special machinery safety standard (Type C Standard) is provided, the specifications of this Type C Standard take precedence.

Examples of Type C Standards:

- DIN EN 619 - Continuous handling equipment and systems
 - DIN EN 693 - Hydraulic presses
 - DIN EN 775 - Industrial robots.
- Recommendations for safety

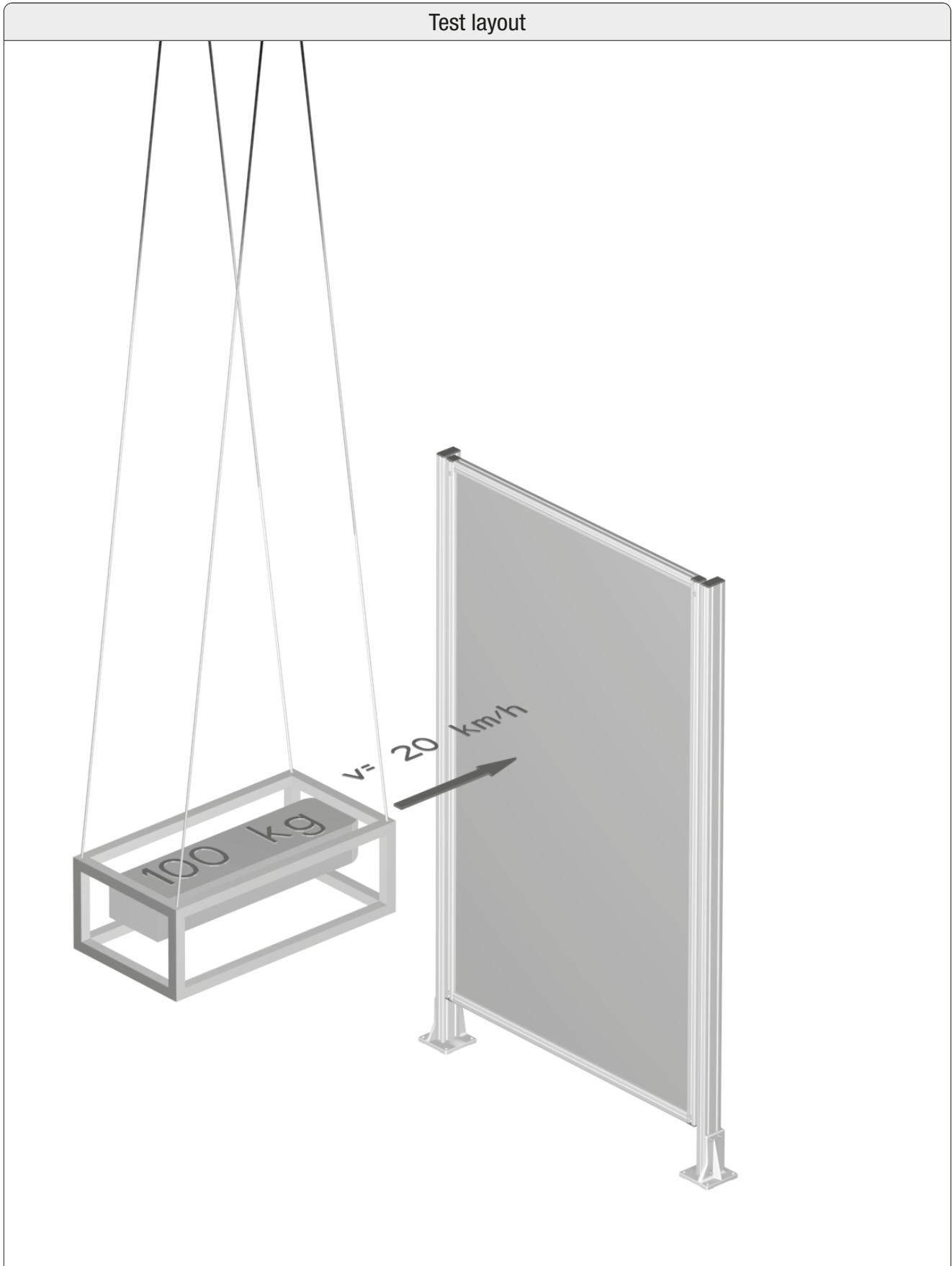


Safety barrier element: without frame
Panel element: Polycarbonate 4 mm

F in N							
100	150	300	450	600	1,000	1,500	2,000

Standard profile	Door post	H _F		S in mm						
	Profile 40×80, 6E, LP	1,000	1.0	2.0	3.0	5.0	6.0	10.0	15.0	20.0
	1,500	3.5	5.0	10.0	15.0	20.0	35.0	62.0	95.0	
Safety barrier, complete		H _F = 1,500		S in mm						
Profile 40×80, 6E, LP	Door post	2.0	2.5	5.0	8.0	10.0	17.5	31.0	48.0	
Profile 40×40, 4E, LP	Panel element	30.0	38.0	49.0	59.0	65.0	82.0	98.0	115.0	
	Entity	32.0	40.5	54.0	67.0	75.0	99.0	129.0	163.0	

Panel profile	Door post	H _F		S in mm						
	Profile 60×80, 6E, Panel, LP	1,000	1.0	1.5	2.0	3.0	5.0	8.0	12.0	16.0
	1,500	2.6	3.5	7.0	10.0	14.0	26.0	40.0	52.0	
Safety barrier, complete		H _F = 1,500		S in mm						
Profile 60×80, 6E, Panel, LP	Door post	1.5	2.0	3.5	5.0	7.0	13.0	20.0	26.0	
Profile 40×80, 3E, Panel, LP	Panel element	35.0	39.0	48.0	54.0	60.0	73.0	84.0	94.0	
	Entity	36.5	41.0	51.5	59.0	67.0	86.0	104.0	120.0	



Test conditions

During this test a body of 100 kg is accelerated to 20 km/h.
During impact of the body into the test barrier an energy of 1600 Joule will be released.
The impact zone is located at the upper third of the test barrier.

Safety barrier unit: without frame

Test with:

Panel element:

Polycarbonate 4 mm

Post:

Panel profile 60×80 mm

Frame:

Panel profile 40×40 mm



before impact



at impact



after impact

Result

MayTec safety barrier units succeeded all crash tests without permanent damage.



Safety barrier unit: with frame

Test with:

Panel element:

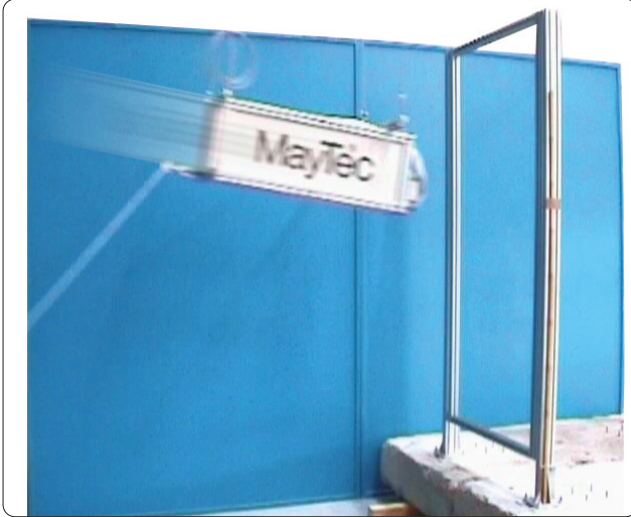
Polycarbonate 4 mm

Post:

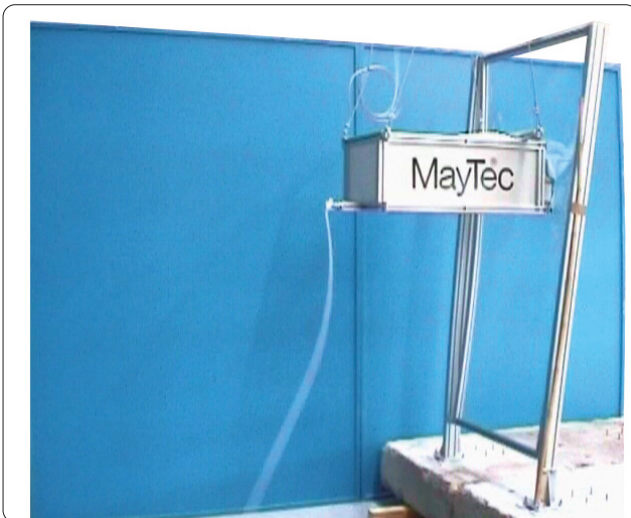
Panel profile 60×80 mm

Frame:

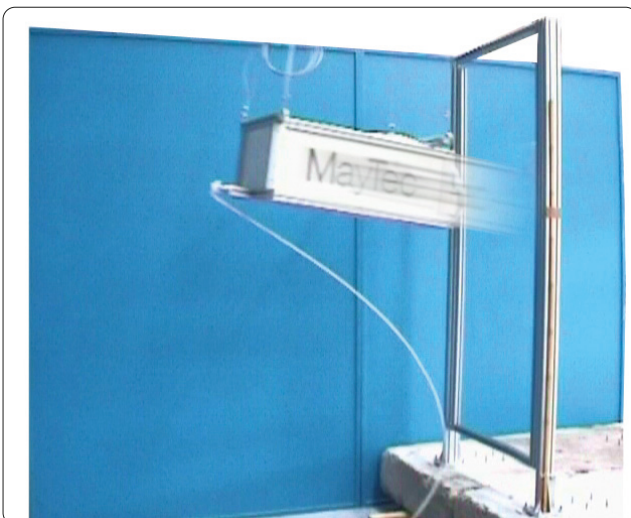
Panel profile 40×40 mm



before impact



at impact



after impact

Result

MayTec safety barrier units succeeded all crash tests without permanent damage.

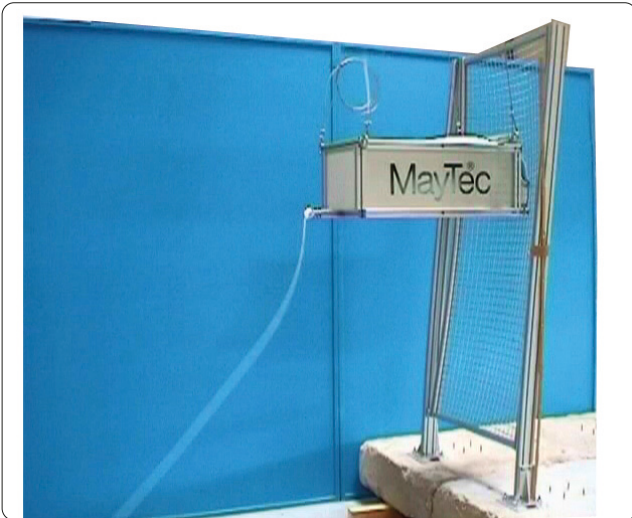


Safety barrier unit: with frame

Test with:	Panel element:	Welded wire net (steel) 4×40×40 mm	
	Post:	Panel profile 60×80 mm	
	Frame	vertical:	Panel profile 40×40 mm
		horizontal:	Wire net profile 30×30 mm



before impact



at impact



after impact

Result

MayTec safety barrier units succeeded all crash tests without permanent damage.



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MayTec GmbH plant in Olching



Accessory storage



Stock of aluminium profiles



Panel storage



Profile machining

The key ...

to success

universal

efficient

functional

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