



## » Safety barriers



## The key to success !



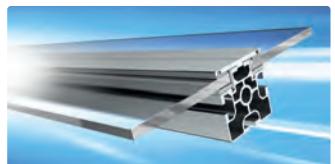
The Profile System



The Clean-Room System



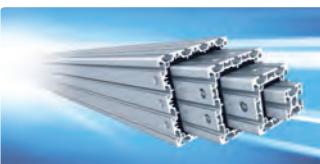
Safety Barriers



The Modular Wall System



The Tube Clamping System



The Telescopic System



The Linear System



The Conveyor System



The Personnel Transfer System



The Skid Transfer System



The Dust Protection System



The Pipe &amp; Joint System



The Trailer System

**powered by**

**MayCAD**  
Design Software

**MayTube**  
Design Software

### The ideal profile system

MayTec offers a comprehensive, harmonised profile system. All profiles 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 profile system.

You may choose:

- delivery of standard elements ex-factory
- delivery of profiles 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 profile 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

- machine bases
- machine enclosures
- machine guarding
- work stations

- assembly and inspection stations
- transfer and supply trolleys
- partitions and protective walls
- protective and work cabinets

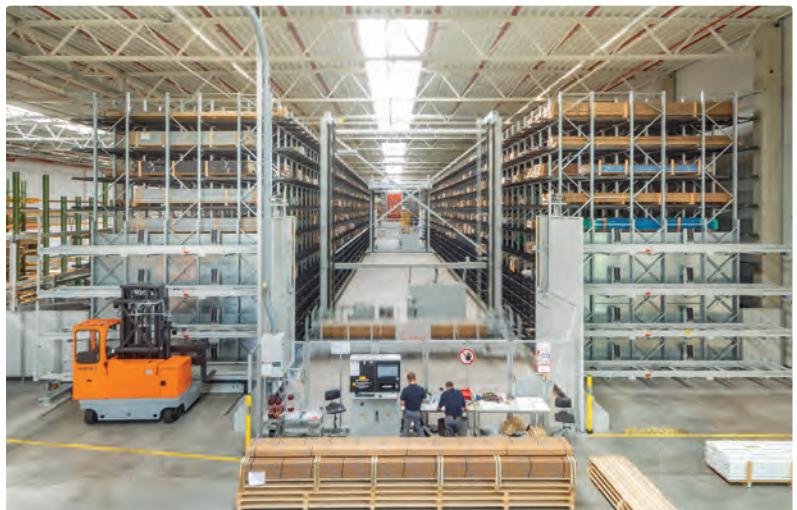
- special shelves
- plant equipment
- display systems
- exhibition cabinets and stands



MayTec GmbH plant in Olching



Accessory storage



Stock of aluminium profiles



Panel storage



Profile machining

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**Design: Unit without frame****Design: Unit with frame**

Fastening with brackets

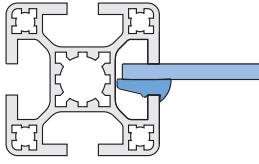
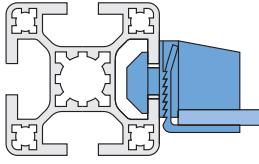
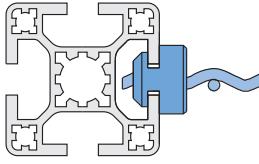
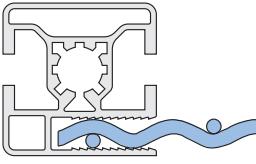
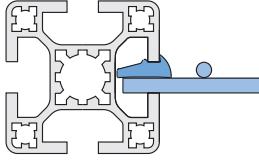
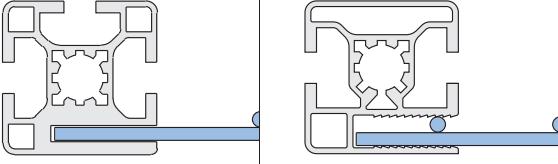
**Design: Unit with frame**

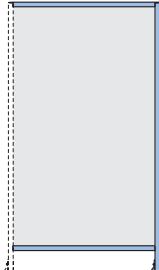
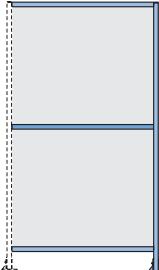
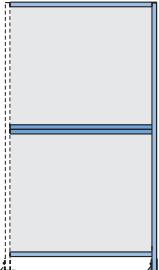
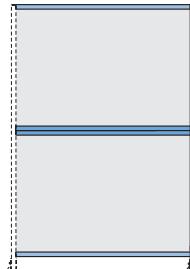
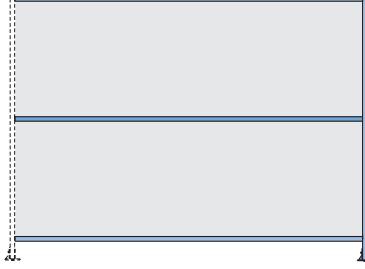
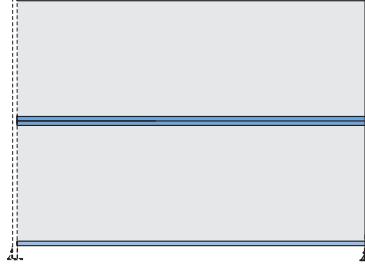
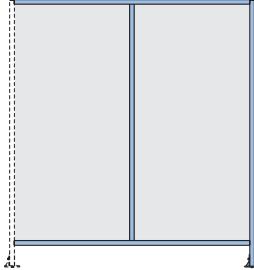
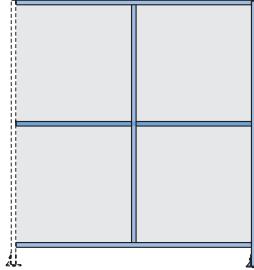
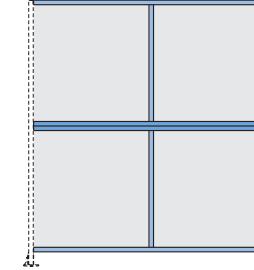
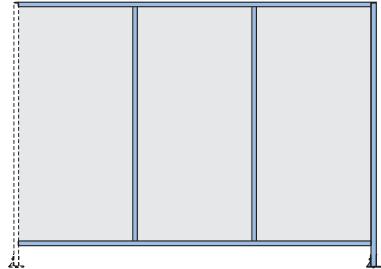
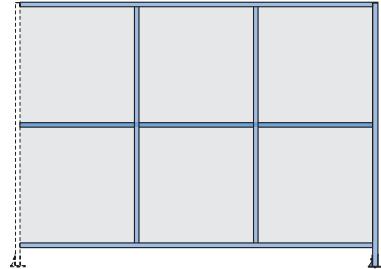
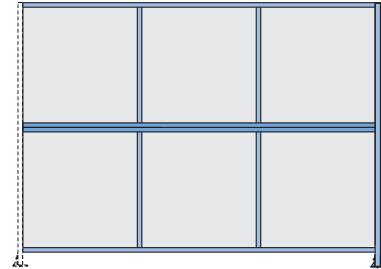
Fastening with angles

**Design: Unit with frame**

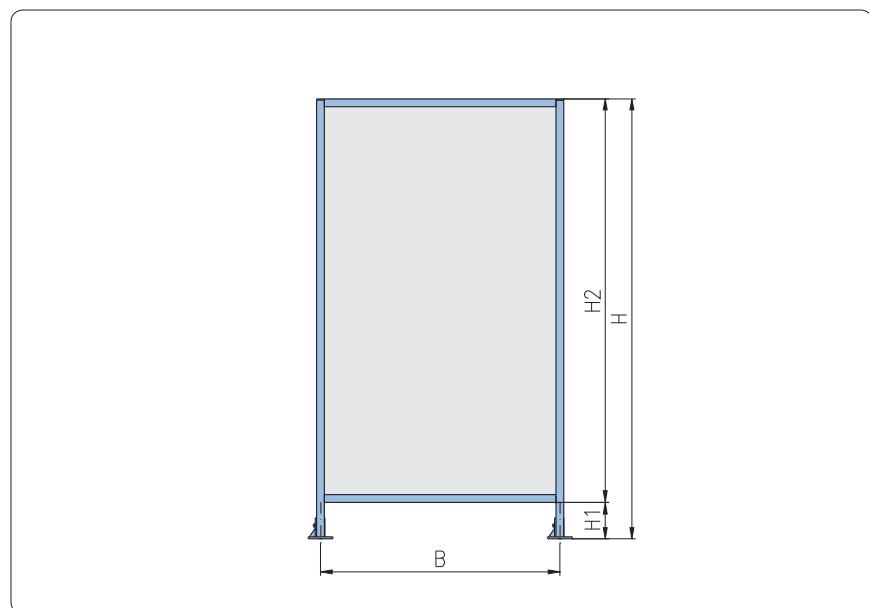
Fastening with hanging brackets



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

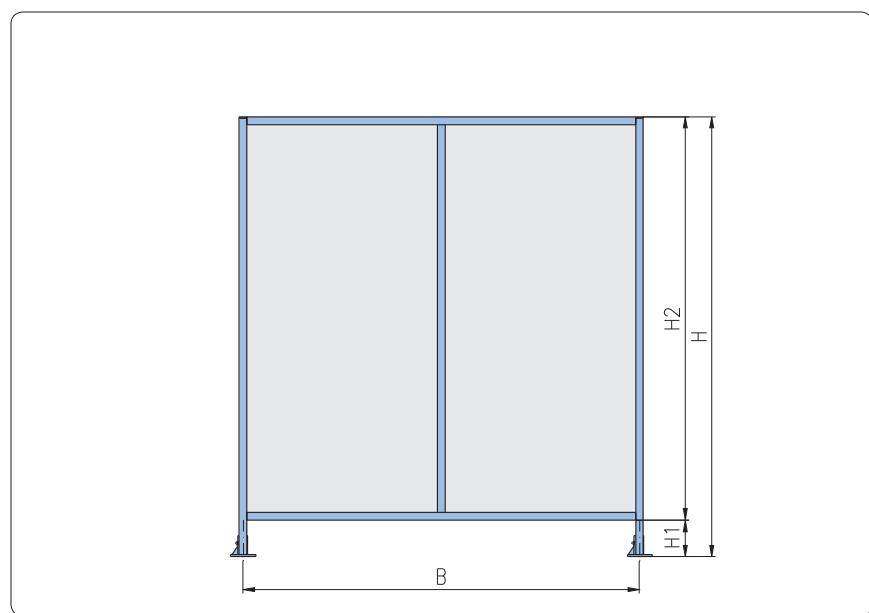
without cross strut	with cross strut	divided
		
		
		
		
		

## Single panel unit



$H$	$H_1$		$B$				
1,800							
2,000	200	300	250	500	750	1,000	1,250
2,200							
2,300							

## Double panel unit



$H$	$H_1$		$B$			
1,800						
2,000	200	300	1,500	1,750	2,000	2,500
2,200						
2,300						

**Safety barrier unit:  
without frame**


Unit										Post					
Panel element		Frame profile			Mounting		Post profile								
		Standard	Pa-	Wire	of panel		Standard		Panel						
40x40, 4E	45x45, 4E	40x40	30x30	40x40	wedge profile	m. clamp blocks	mounting sockets	40x40	40x80	80x80	80x80, corner	45x45	45x90	60x80 5E	60x80 6E
Polycarbonate transparent	4 mm	•	•		•	•		•	•	•	•	•	•	•	•
Wire net alu	3x20x20 mm	•	•			•	•	•	•	•	•	•	•	•	•
	4x30x30 mm	•	•			•	•	•	•	•	•	•	•	•	•
steel	4x30x30 mm, 4x40x40 mm	•	•			•	•	•	•	•	•	•	•	•	•
Welded wire net (steel)	3x25x25 mm	•	•		•		•	•	•	•	•	•	•	•	•
	4x40x40 mm	•	•		•		•	•	•	•	•	•	•	•	•
Welding protecting glass	green-brown	4 mm	•	•	•	•	•	•	•	•	•	•	•	•	•

**Safety barrier unit:  
with frame**


Unit									Post			Fastening
Panel element		Frame profile			Mounting		Post profile			of element		
		Standard	Pa-	Wire	of panel	Standard	Panel					
Polycarbonate	transparent	4 mm	•	40x40, 4E	•	wedge profile	40x40	45x45, 4E	40x80	80x80	80x80, corner	•
			•	45x45, 4E	•	m. clamp blocks	45x45	40x40	40x80	80x80	80x80, corner	•
				40x40	30x30	mounting sockets	45x90	40x40	40x80	80x80	80x80, corner	•
				40x40			60x80 5E	45x90	40x80	80x80	80x80, corner	•
							60x80 6E	60x80 5E	40x80	80x80	80x80, corner	•
Wire net	alu	3x20x20 mm	•		•	•	45x90		40x80	80x80	80x80, corner	•
			•		•	•	60x80 6E		40x80	80x80	80x80, corner	•
							60x80 5E		40x80	80x80	80x80, corner	•
							60x80 6E		40x80	80x80	80x80, corner	•
							60x80 5E		40x80	80x80	80x80, corner	•
Wire net	steel	4x30x30 mm, 4x40x40 mm	•		•	•	45x90		40x80	80x80	80x80, corner	•
			•		•	•	60x80 6E		40x80	80x80	80x80, corner	•
							60x80 5E		40x80	80x80	80x80, corner	•
							60x80 6E		40x80	80x80	80x80, corner	•
Welded wire net (steel)		3x25x25 mm	•		•	•	45x90		40x80	80x80	80x80, corner	•
			•		•	•	60x80 6E		40x80	80x80	80x80, corner	•
							60x80 5E		40x80	80x80	80x80, corner	•
							60x80 6E		40x80	80x80	80x80, corner	•
Welding protecting	green- brown	4 mm	•		•	•	45x90		40x80	80x80	80x80, corner	•
			•		•	•	60x80 6E		40x80	80x80	80x80, corner	•
							60x80 5E		40x80	80x80	80x80, corner	•
							60x80 6E		40x80	80x80	80x80, corner	•
Welding protecting	green- brown	4 mm	•		•	•	45x90		40x80	80x80	80x80, corner	•
			•		•	•	60x80 6E		40x80	80x80	80x80, corner	•
							60x80 5E		40x80	80x80	80x80, corner	•
							60x80 6E		40x80	80x80	80x80, corner	•

## Single hinged door



Unit										Post					
Panel element		Frame profile			Mounting		Post profile								
		Standard	Pa-	Wire	of panel		Standard		Panel						
40x40, 4E	45x45, 4E	40x40	30x30	40x40	wedge profile	m. clamp blocks	mounting sockets	40x40	40x80	80x80	80x80, corner	45x45	45x90	60x80 5E	60x80 6E
Polycarbonate transparent	4 mm	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Wire net alu	3x20x20 mm	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	4x30x30 mm	•	•	•	•	•	•	•	•	•	•	•	•	•	•
steel	4x30x30 mm, 4x40x40 mm	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Welded wire net (steel)	3x25x25 mm	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	4x40x40 mm	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Welding protecting glass	green-brown	4 mm	•	•	•	•	•	•	•	•	•	•	•	•	•

## Double hinged door

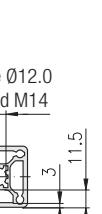
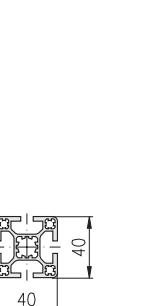
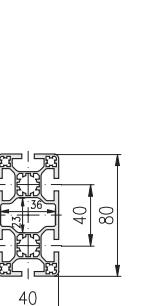
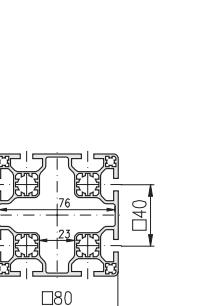


Unit										Post				Locking		
Panel element		Frame profile			Mounting		Post profile									
		Standard	Panel	Wire net	of panel element		Standard	Panel								
Polycarbonate transparent	4 mm	•	40x40, 4E		•	wedge profile	40x40		•	45x45, 4E		45x90	60x80 5E	60x80 6E	top	
			45x45, 4E		•	m. clamp blocks	40x80		•	40x40		80x80	80x80, corner	80x80	bottom	
Wire net alu	3x20x20 mm	•			•	mounting sockets	80x80		•	40x40		45x45	60x80 5E	60x80 6E		
	4x30x30 mm	•			•		80x90		•	45x90		45x90				
steel	4x30x30 mm, 4x40x40 mm	•			•		80x90		•	60x80 5E		60x80 6E				
Welded wire net (steel)	3x25x25 mm	•			•		80x90		•	45x45		45x45				
	4x40x40 mm	•			•		80x90		•	60x80 5E		60x80 6E				
Welding protecting glass	green-brown 4 mm	•			•		80x90		•	45x90		45x90				
		•			•		80x90		•	60x80 5E		60x80 6E				
			•		•		80x90		•	45x45		45x45				

## Sliding door

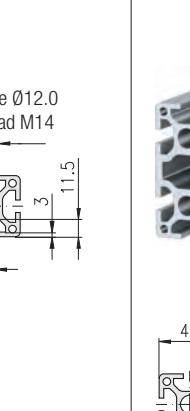
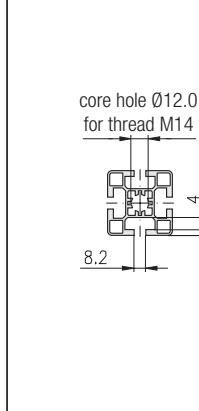


Unit										Post				
Panel element		Frame profile			Mounting		Post profile							
		Standard	Panel	Wire net	of panel element	wedge profile	m. clamp blocks	mounting sockets	Standard	Panel				
Polycarbonate transparent	4 mm	•	40x40, 4E		•	•		•	•	•	•	•	•	
			45x45, 4E		•									
				40x40										
					30x30									
						40x40								
Wire net alu	3x20x20 mm	•				•	•	•	•	•				
			•				•				•	•		
Wire net alu	4x30x30 mm	•				•	•	•	•	•				
			•				•				•	•		
					•	•								
Wire net steel	4x30x30 mm, 4x40x40 mm	•				•	•	•	•	•				
			•				•				•	•		
					•	•								
Welded wire net (steel)	3x25x25 mm	•				•		•	•	•				
			•				•				•	•		
Welding protecting glass	green-brown 4 mm	•				•		•	•	•				
			•				•				•	•		
					•								•	•

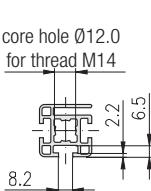
				
				
<b>Description</b>	Profile 40x40, 4E, LP	Profile 40x80, 6E, LP	Profile 80x80, 8E, LP	
<b>bar, 6 m</b>	1.11.040040.43LP.60	1.11.040080.64LP.60	1.11.080080.83LP.60	
<b>packing unit (number)</b>	1.11.040040.43LP.61 (8)	1.11.040080.64LP.61 (4)	1.11.080080.83LP.61 (2)	
<b>moment of inertia cm<sup>4</sup></b>	I <sub>x</sub> = 9.9 I <sub>y</sub> = 9.9	I <sub>x</sub> = 62.7 I <sub>y</sub> = 17.7	I <sub>x</sub> = 114.0 I <sub>y</sub> = 114.0	
<b>moment of resistance cm<sup>3</sup></b>	W <sub>x</sub> = 4.9 W <sub>y</sub> = 4.9	W <sub>x</sub> = 15.6 W <sub>y</sub> = 8.8	W <sub>x</sub> = 28.4 W <sub>y</sub> = 28.4	
<b>weight kg/m</b>	G = 1.5	G = 2.5	G = 4.1	

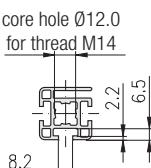
## Profile group 40 mm, E3-slot

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

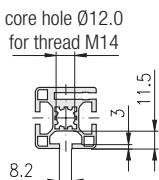
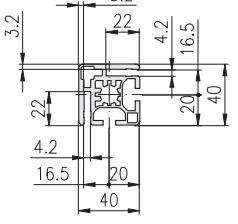
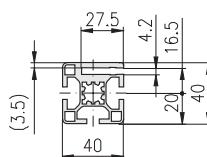
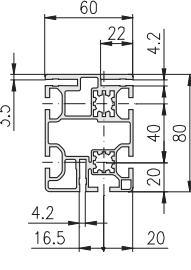
heavy	light	
 <p>core hole Ø12.0 for thread M14</p> <p>core hole Ø5.0 for thread M6</p>	 <p>core hole Ø12.0 for thread M14</p>	
Description	Profile 80x80, 8E, angle, S	Description
bar, 6 m	1.11.080080.87S.60	bar, 6 m
packing unit (number)	1.11.080080.87S.61 (2)	packing unit (number)
moment of inertia cm <sup>4</sup>	$I_x = 120.0 \quad I_y = 120.0$	Trägheitsmoment cm <sup>4</sup>
moment of resistance cm <sup>3</sup>	$W_x = 23.8 \quad W_y = 23.8$	Widerstandsmoment cm <sup>3</sup>
weight kg/m	$G = 6.3$	Gewicht kg/m
		$G = 1.9$
		$I_x = 13.5 \quad I_y = 13.5$
		$W_x = 6.0 \quad W_y = 6.0$
		$G = 3.3$

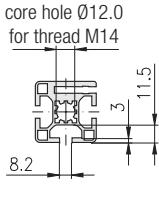
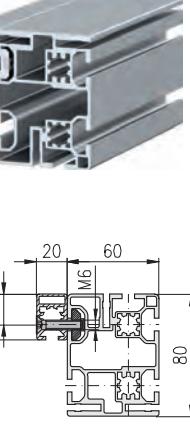
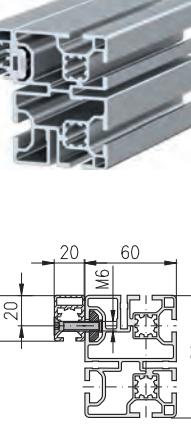
machining data  [Profile machining 1.1A \(Catalogue 'The Profile System'\)](#)

<span style="border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px; display: inline-block;">light</span>	 			
Description	Panel profile 30x30, OF, LP	Panel profile 30x30, 2F, corner, LP 4	Panel profile 30x30, 3F, LP 4	Panel profile 30x50, 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 <sup>4</sup>	$I_x = 3.8$ $I_y = 3.8$	$I_x = 3.3$ $I_y = 3.3$	$I_x = 3.3$ $I_y = 2.8$	$I_x = 5.5$ $I_y = 11.8$
moment of resistance cm <sup>3</sup>	$W_x = 2.4$ $W_y = 2.4$	$W_x = 2.2$ $W_y = 2.2$	$W_x = 2.2$ $W_y = 1.8$	$W_x = 3.6$ $W_y = 4.8$
weight kg/m	$G = 1.1$	$G = 1.0$	$G = 0.9$	$G = 1.5$

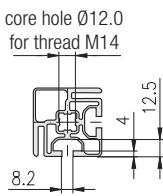
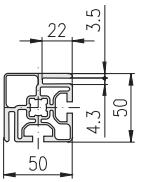
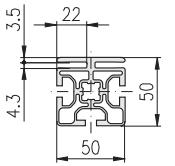
<span style="border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px; display: inline-block;">light</span>	 			
Description	Panel profile 30x30, 2F, LP 5	Panel profile 30x50, 2F, LP 5		Panel profile 30x30, 2F, LP 6
bar, 6 m	1.14.030030.23LP5.60	1.14.030050.24LP5.60		1.14.030030.23LP6.60
packing unit (number)	1.14.030030.23LP5.61(10)	1.14.030050.24LP5.61(10)		1.14.030030.23LP6.61 (6)
moment of inertia cm <sup>4</sup>	$I_x = 4.3$ $I_y = 3.3$	$I_x = 7.0$ $I_y = 14.7$		$I_x = 3.6$ $I_y = 2.8$
moment of resistance cm <sup>3</sup>	$W_x = 2.8$ $W_y = 2.2$	$W_x = 4.7$ $W_y = 5.9$		$W_x = 2.4$ $W_y = 1.9$
weight kg/m	$G = 1.2$	$G = 1.9$		$G = 1.0$

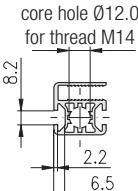
 machining data  *Profile machining 1.1A (Catalogue 'The Profile System')*

light				
				
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 <sup>4</sup>	$I_x = 10.3$ $I_y = 10.3$	$I_x = 10.2$ $I_y = 8.7$	$I_x = 14.8$ $I_y = 26.3$	$I_x = 100.4$ $I_y = 50.4$
moment of resistance cm <sup>3</sup>	$W_x = 5.2$ $W_y = 5.2$	$W_x = 5.1$ $W_y = 4.3$	$W_x = 7.4$ $W_y = 8.8$	$W_x = 25.1$ $W_y = 16.8$
weight kg/m	$G = 1.8$	$G = 1.65$	$G = 2.4$	$G = 3.8$

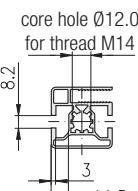
light		Profile for door stop		
				
		Assembly drawing		
Description	Panel profile 60×80, 6E, LP 4	Profile 20×30, 1F, LP		
bar, 6 m	1.14.060080.64LP4.60	1.11.020030.14LP.60		
packing unit (number)	1.14.060080.64LP4.61 (4)	1.11.020030.14LP.61 (10)		
moment of inertia cm <sup>4</sup>	$I_x = 88.1$ $I_y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

 machining data  *Profile machining 1.1A (Catalogue 'The Profile System')*

<span style="background-color: #d9e1f2; border-radius: 5px; padding: 2px 10px;">light</span>     			
Description	Panel profile 50x50, 2E, corner, LP 4	Panel profile 50x50, 3E, LP 4	
bar, 6 m packing unit (number)	1.14.050050.22LP4.60 1.14.050050.22LP4.61 (6)	1.14.050050.39LP4.60 1.14.050050.39LP4.61 (6)	
moment of inertia cm <sup>4</sup> moment of resistance cm <sup>3</sup> weight kg/m	$I_x = 19.4$ $I_y = 19.4$ $W_x = 7.6$ $W_y = 7.6$ $G = 2.4$	$I_x = 24.1$ $I_y = 21.4$ $W_x = 8.0$ $W_y = 8.5$ $G = 2.7$	

<span style="border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px; display: inline-block;">light</span>	  		
Description	Wire net profile 30x30, 2F, LP 7.5	Wire net profile 30x45, 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 <sup>4</sup>	$I_x = 2.6$ $I_y = 3.2$	$I_x = 4.3$ $I_y = 7.4$	
moment of resistance cm <sup>3</sup>	$W_x = 1.7$ $W_y = 2.1$	$W_x = 2.9$ $W_y = 3.3$	
weight kg/m	$G = 0.86$	$G = 1.15$	

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

<span style="border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px; display: inline-block;">light</span>	  		
Description	Wire net profile 40x40, 2E, LP 7.5	Wire net profile 40x60, 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 <sup>4</sup>	$I_x = 7.5$ $I_y = 8.2$	$I_x = 12.2$ $I_y = 22.5$	
moment of resistance cm <sup>3</sup>	$W_x = 3.8$ $W_y = 4.1$	$W_x = 6.1$ $W_y = 7.5$	
weight kg/m	$G = 1.35$	$G = 1.97$	

machining data  *Profile machining 1.1A (Catalogue 'The Profile System')*

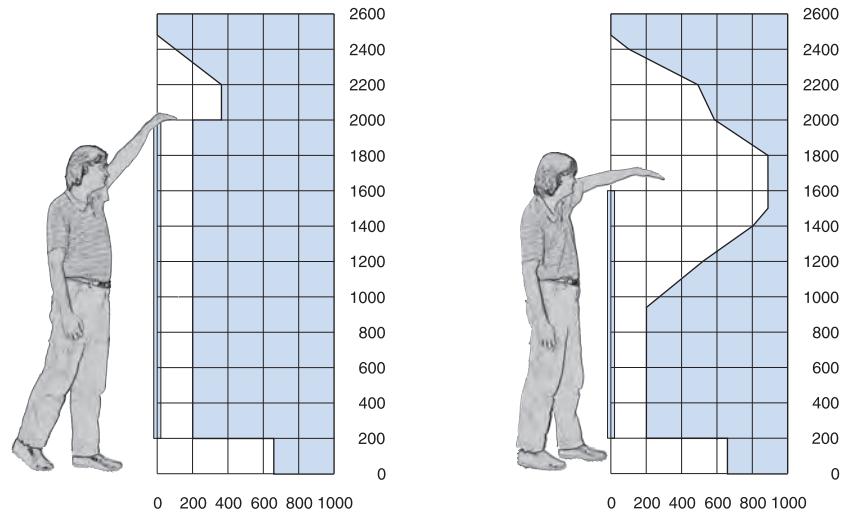
## Standards for guards

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 40×40 mm requires a safety distance of 200 mm.

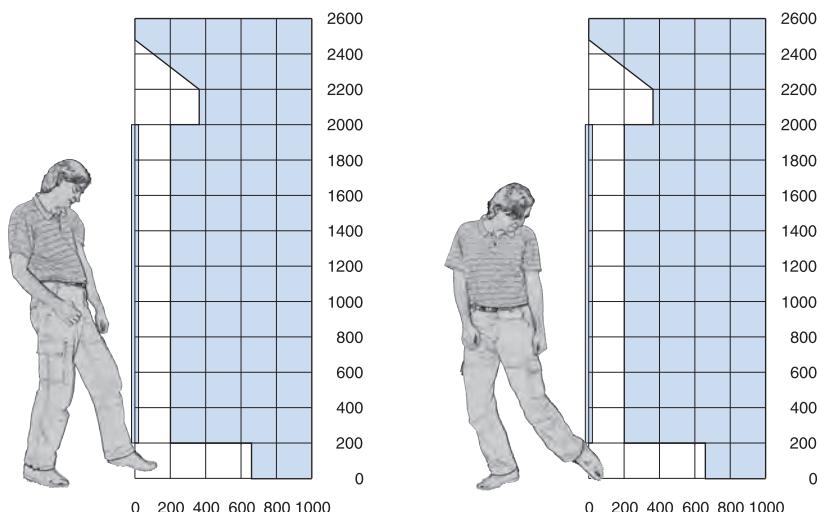
The following figures show the safety distance profiles in accordance with **EN 294** and **EN 811** for two different heights of the safety barrier. The safety distance layout of a concrete safety barrier always requires a risk assessment according to **DIN EN ISO 12100**.



### 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

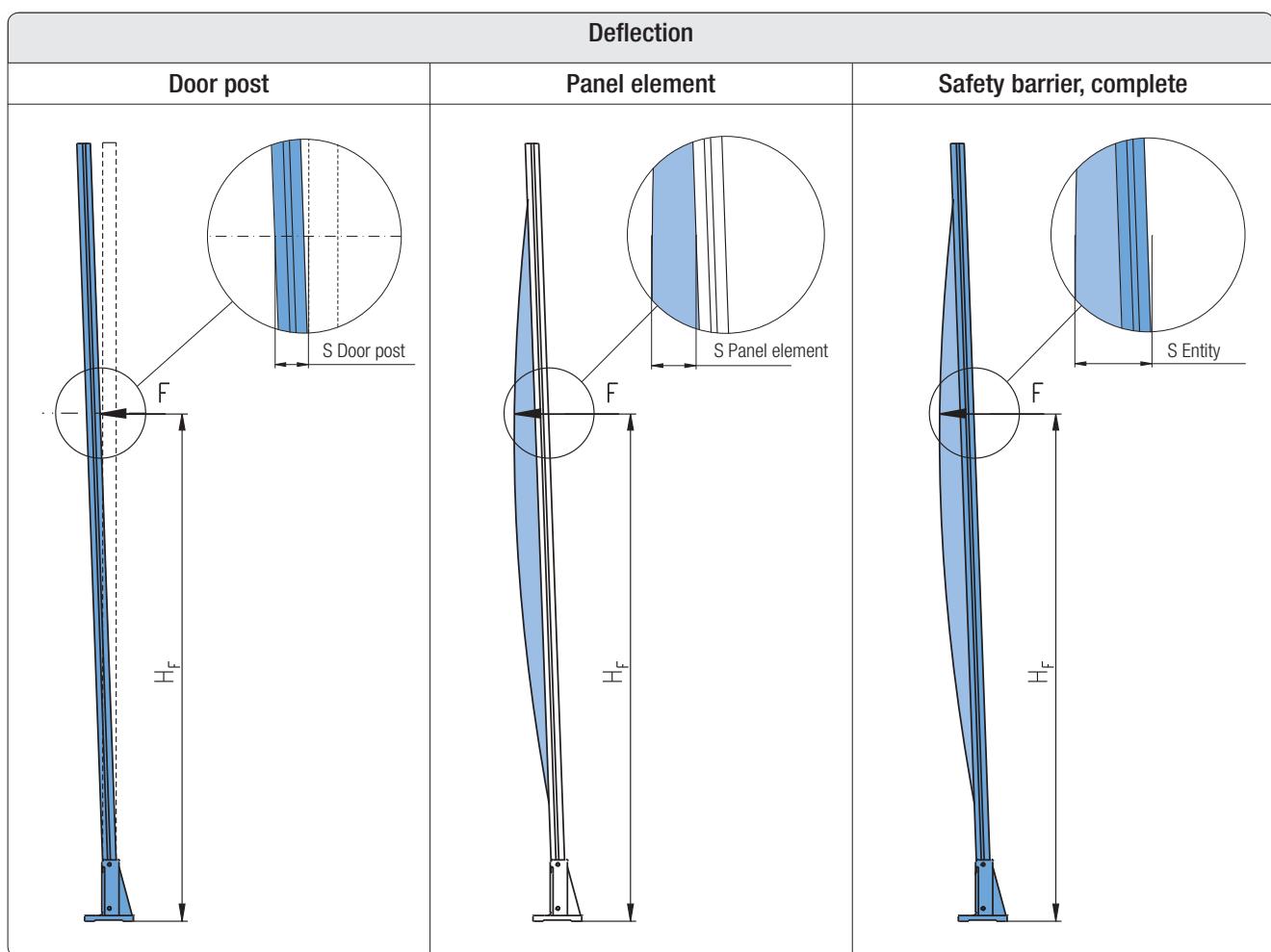
General requirements for the design and construction of fixed and movable guards

## 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

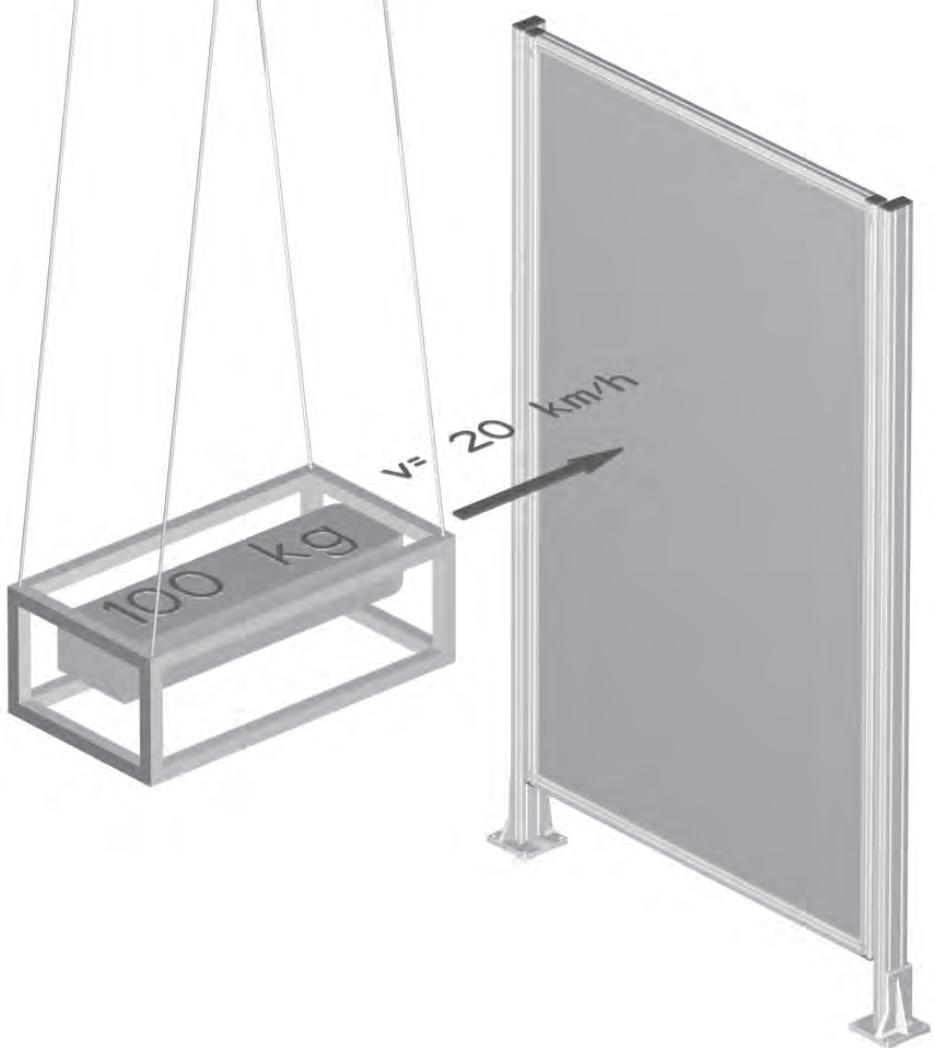

**Safety barrier element: without frame**
**Panel element: Polycarbonate 4 mm**

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

Standard profile	Door post $H_F$ S in mm									
	Profile 40x80, 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
	<b>Safety barrier, complete</b> $H_F = 1,500$ S in mm									
	Profile 40x80, 6E, LP	Door post	2.0	2.5	5.0	8.0	10.0	17.5	31.0	48.0
		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 60x80, 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
	<b>Safety barrier, complete</b> $H_F = 1,500$ S in mm									
	Profile 60x80, 6E, Panel, LP	Door post	1.5	2.0	3.5	5.0	7.0	13.0	20.0	26.0
		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 layout

**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.

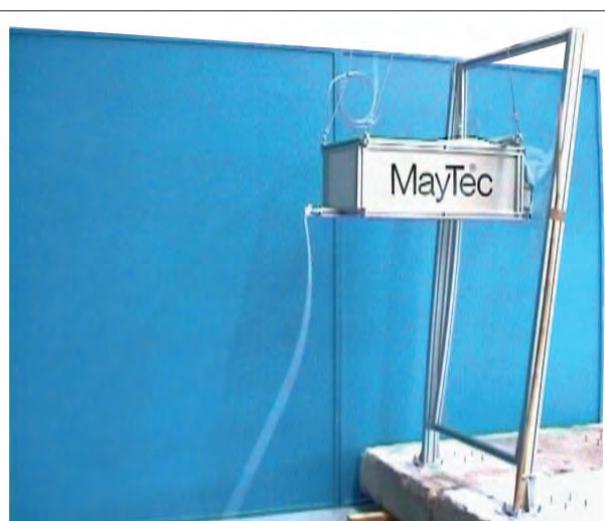


## Safety barrier unit: with frame

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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The key ...

to success

extremely strong

efficient

functional

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