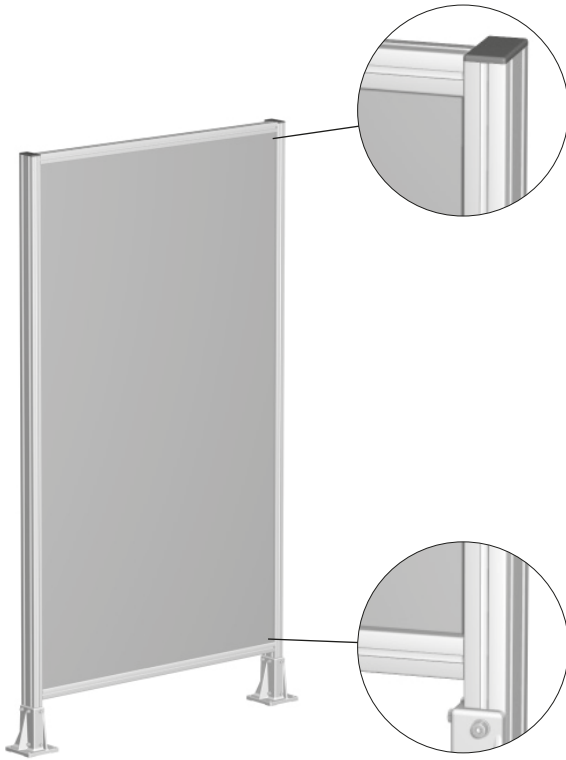




## » Das Schutzzaun System

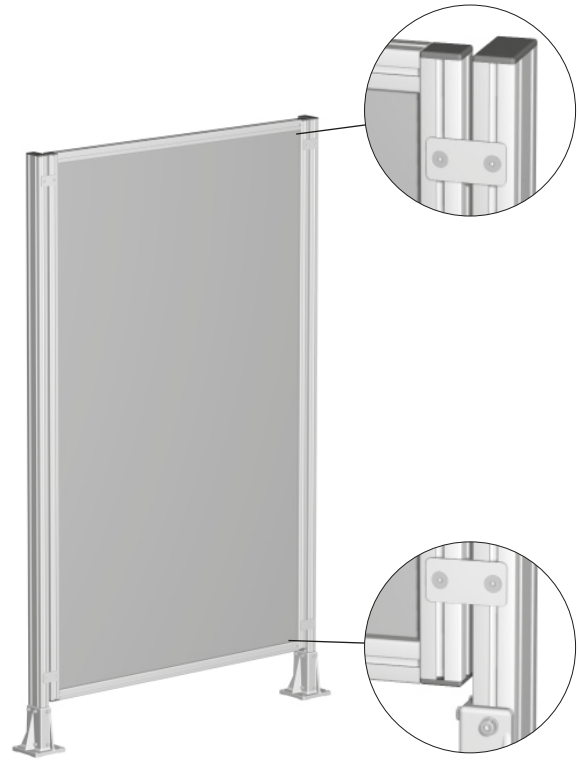
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**Ausführung: Feld ohne Rahmen**



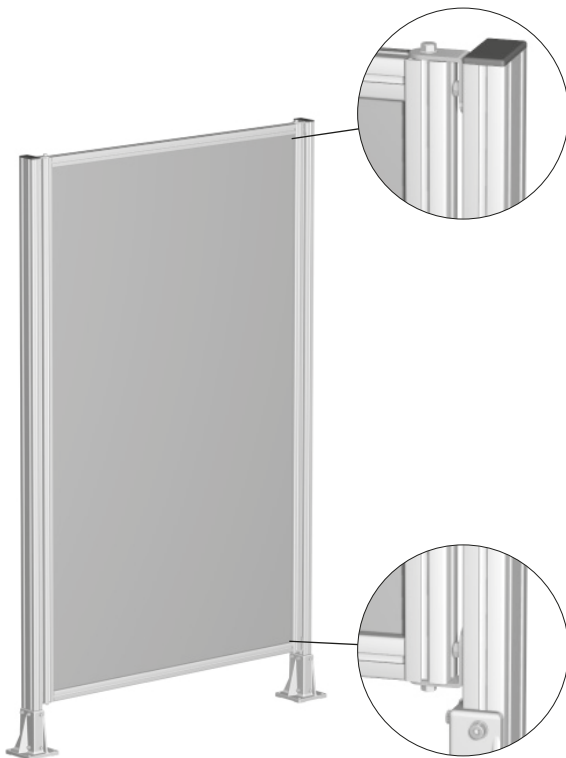
**Ausführung: Feld mit Rahmen**

Befestigung mit Laschen



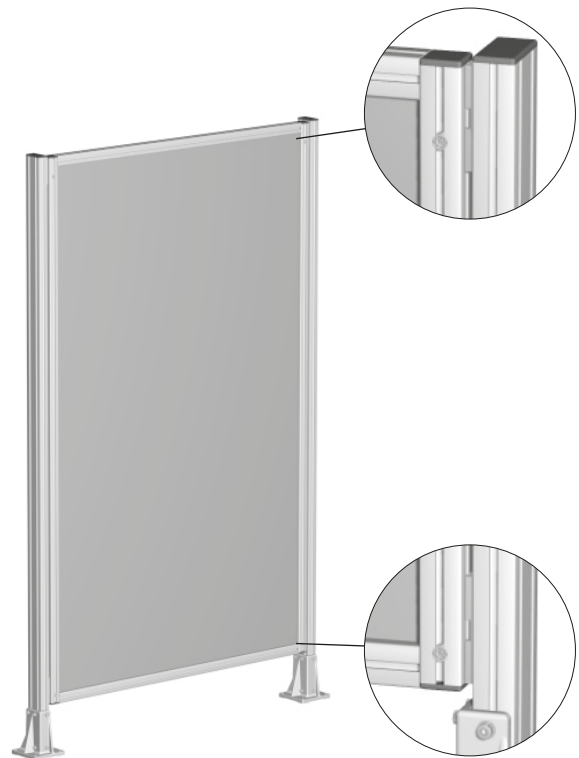
**Ausführung: Feld mit Rahmen**

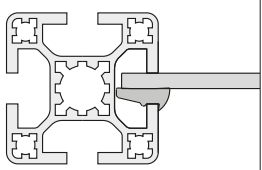
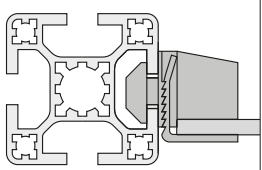
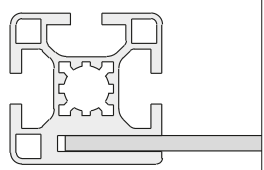
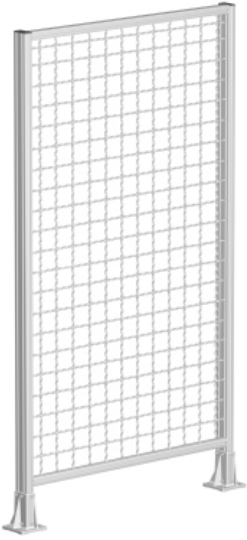
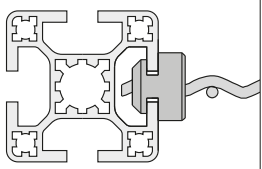
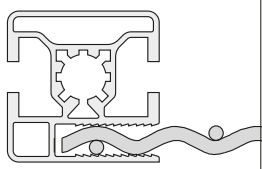
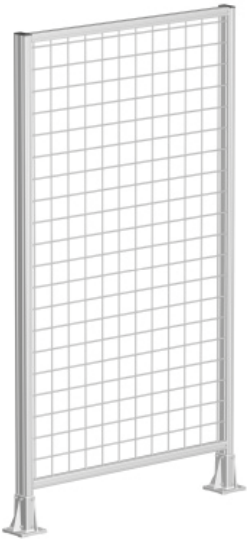
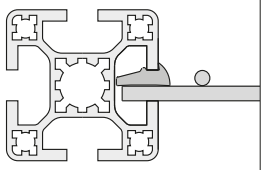
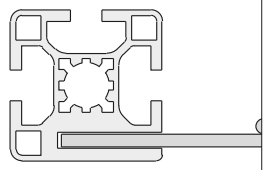
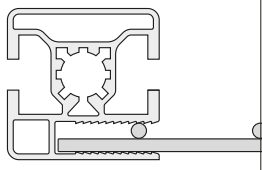
Befestigung mit Winkel

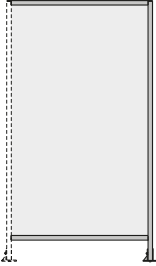
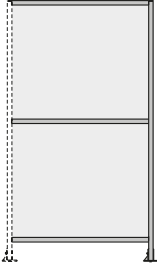
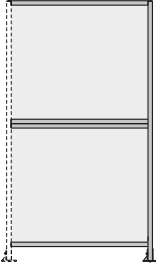
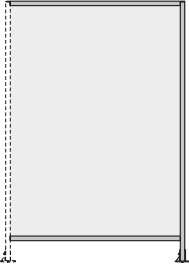
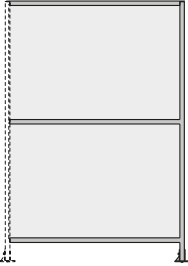
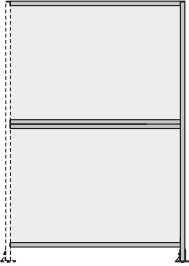
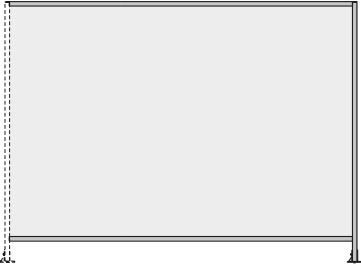
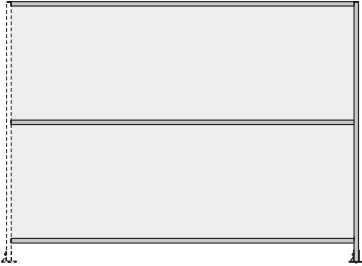
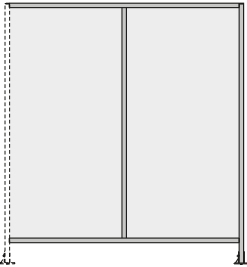
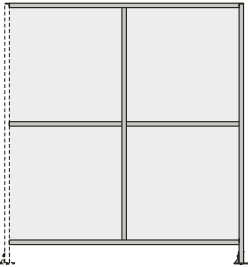
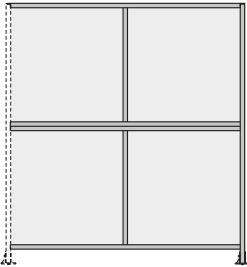
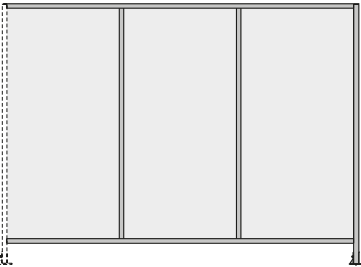
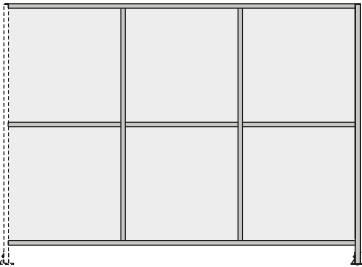
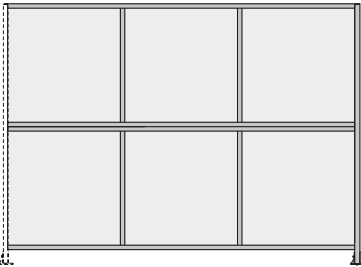


**Ausführung: Feld mit Rahmen**

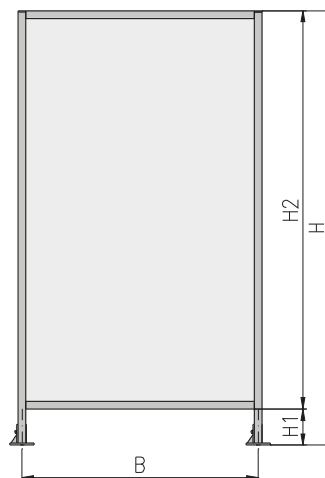
Befestigung mit Aufhängung



| Flächenelement                                                                                                    | Rahmen-Profil                                                                                                                                                                                                    |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                                   | Standard                                                                                                                                                                                                         | Panel                                                                                | Wellengitter                                                                          |
| <b>Polycarbonat</b><br>          | <br>mit Keilprofil<br><br><br>mit Klemmblocken |    |                                                                                       |
| <b>Wellengitter</b><br>         | <br>mit Klemmbuchsen                                                                                                          |                                                                                      |  |
| <b>Stahl-Schweißgitter</b><br> | <br>mit Keilprofil                                                                                                            |  |  |

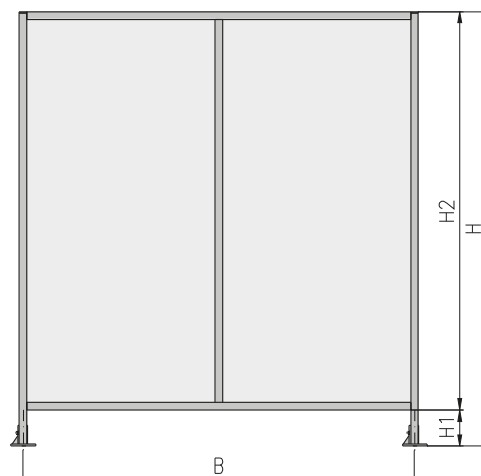
| ohne Querstrebe                                                                     | mit Querstrebe                                                                      | mit 2 Querstreben                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |    |    |
|    |    |    |
|  |  |  |
|  |  |  |
|  |  |  |

## Feld, 1-fach



| H     | H1  |     | B   |     |     |       |       |
|-------|-----|-----|-----|-----|-----|-------|-------|
| 1.800 | 200 | 300 | 250 | 500 | 750 | 1.000 | 1.250 |
| 2.000 |     |     |     |     |     |       |       |
| 2.200 |     |     |     |     |     |       |       |
| 2.300 |     |     |     |     |     |       |       |

## Feld, 2-fach



| H     | H1  |     | B     |       |       |       |
|-------|-----|-----|-------|-------|-------|-------|
| 1.800 | 200 | 300 | 1.500 | 1.750 | 2.000 | 2.500 |
| 2.000 |     |     |       |       |       |       |
| 2.200 |     |     |       |       |       |       |
| 2.300 |     |     |       |       |       |       |
| 2.300 |     |     |       |       |       |       |

## Schutzzaun-Feld: ohne Rahmen



| Feld                              |               |           | Pfosten      |                    |       |            |                |              |       |       |       |            |       |       |          |          |
|-----------------------------------|---------------|-----------|--------------|--------------------|-------|------------|----------------|--------------|-------|-------|-------|------------|-------|-------|----------|----------|
| Flächenelement                    | Rahmen-Profil |           |              | Befestigung        |       |            | Pfosten-Profil |              |       |       |       |            |       |       |          |          |
|                                   | Standard      | Panel     | Wellengitter | für Flächenelement |       |            | Standard       |              |       |       |       |            |       |       |          |          |
|                                   | 40×40, 4E     | 45×45, 4E | 40×40        | 30×30              | 40×40 | Keilprofil | Klemmblocke    | Klemmbuchsen | 40×40 | 40×80 | 80×80 | 80×80, Eck | 45×45 | 45×90 | 60×80 5E | 60×80 6E |
| Polycarbonat transparent 4 mm     | •             |           |              |                    |       | •          | •              |              | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       | •          | •              |              |       |       |       |            | •     | •     |          |          |
|                                   |               |           | •            |                    |       |            |                |              |       |       |       |            |       |       | •        | •        |
| Wellengitter Alu 3×20×20 mm       | •             |           |              |                    |       |            |                | •            | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       |            |                | •            |       |       |       |            | •     | •     |          |          |
|                                   | •             |           |              |                    |       |            |                | •            | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       |            |                | •            |       |       |       |            | •     | •     |          |          |
|                                   |               |           |              |                    |       |            |                |              |       |       |       |            |       |       |          |          |
|                                   | •             |           |              |                    |       |            |                | •            | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       |            |                | •            |       |       |       |            | •     | •     |          |          |
|                                   |               |           |              |                    |       |            |                |              |       |       |       |            |       |       |          |          |
| Schweißgitter Stahl 3×25×25 mm    | •             |           |              |                    |       | •          |                |              | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       | •          |                |              |       |       |       |            | •     | •     |          |          |
|                                   | •             |           |              |                    |       | •          |                |              | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       | •          |                |              |       |       |       |            | •     | •     |          |          |
|                                   |               |           | •            |                    |       |            |                |              |       |       |       |            |       |       |          | •        |
| Schweißschutzglas grün-braun 4 mm | •             |           |              |                    |       | •          |                |              | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       | •          |                |              |       |       |       |            | •     | •     |          |          |
|                                   |               |           | •            |                    |       |            |                |              |       |       |       |            |       |       | •        | •        |

## Schutzzaun-Feld: mit Rahmen



| Feld               |              |                        |               |           | Pfosten |               |       |                     |                |              |          |       |       |            |       |       | Befestigung |          |            |        |         |
|--------------------|--------------|------------------------|---------------|-----------|---------|---------------|-------|---------------------|----------------|--------------|----------|-------|-------|------------|-------|-------|-------------|----------|------------|--------|---------|
| Flächenelement     |              |                        | Rahmen-Profil |           |         | Befestigung   |       |                     | Pfosten-Profil |              |          |       |       |            |       |       | für Feld    |          |            |        |         |
|                    |              |                        | Standard      |           | Panel   | Wellen-gitter |       | für Flächen-element |                |              | Standard |       |       |            |       |       |             |          |            | Panel  |         |
|                    |              |                        | 40×40, 4E     | 45×45, 4E | 40×40   | 30×30         | 40×40 | Keilprofil          | Klemmböcke     | Klemmbuchsen | 40×40    | 40×80 | 80×80 | 80×80, Eck | 45×45 | 45×90 | 60×80 5E    | 60×80 6E | Aufhängung | Winkel | Laschen |
| Polycarbonat       | trans-parent | 4 mm                   | •             |           |         |               |       | •                   | •              |              | •        | •     | •     | •          |       |       |             | •        | •          | •      |         |
|                    |              |                        |               | •         |         |               |       | •                   | •              |              |          |       |       | •          | •     |       |             | •        | •          | •      |         |
|                    |              |                        |               |           | •       |               |       |                     |                |              |          |       |       |            |       |       | •           | •        |            | •      | •       |
| Wellengitter       | Alu          | 3×20×20 mm             | •             |           |         |               |       |                     | •              | •            | •        | •     | •     |            |       |       |             | •        | •          | •      |         |
|                    |              |                        |               | •         |         |               |       |                     |                | •            |          |       |       | •          | •     |       |             | •        | •          | •      |         |
|                    |              | 4×30×30 mm             | •             |           |         |               |       |                     |                | •            | •        | •     | •     | •          |       |       |             |          | •          | •      | •       |
|                    |              |                        |               | •         |         |               |       |                     |                |              | •        |       |       |            | •     | •     |             |          | •          | •      | •       |
|                    | Stahl        | 4×30×30 mm, 4×40×40 mm |               |           |         | •             | •     |                     |                | •            | •        | •     | •     | •          | •     |       |             |          | •          | •      | •       |
|                    |              |                        | •             | •         |         |               |       |                     |                | •            |          |       |       | •          | •     |       |             | •        | •          | •      |         |
|                    |              |                        |               |           |         |               |       |                     |                |              |          |       |       | •          | •     |       |             | •        | •          | •      |         |
|                    |              |                        |               |           |         | •             | •     |                     |                |              | •        | •     | •     | •          | •     | •     |             |          | •          | •      | •       |
| Schweißgitter      | Stahl        | 3×25×25 mm             | •             |           |         |               |       | •                   |                |              | •        | •     | •     | •          |       |       |             | •        | •          | •      |         |
|                    |              |                        |               | •         |         |               |       |                     | •              |              |          |       |       | •          | •     |       |             | •        | •          | •      |         |
|                    |              | 4×40×40 mm             | •             |           |         |               |       | •                   |                |              | •        | •     | •     | •          |       |       |             |          | •          | •      | •       |
|                    |              |                        |               | •         |         |               |       |                     | •              |              |          |       |       |            | •     | •     |             |          | •          | •      | •       |
|                    |              |                        |               |           | •       | •             | •     |                     |                |              |          | •     | •     | •          | •     | •     | •           |          | •          | •      | •       |
| Schweiß-schutzglas | grün-braun   | 4 mm                   | •             |           |         |               |       | •                   |                |              | •        | •     | •     | •          |       |       |             | •        | •          | •      |         |
|                    |              |                        |               | •         |         |               |       |                     | •              |              |          |       |       | •          | •     |       |             | •        | •          | •      |         |
|                    |              |                        |               |           | •       |               |       |                     |                |              |          |       |       |            |       | •     | •           |          | •          | •      | •       |

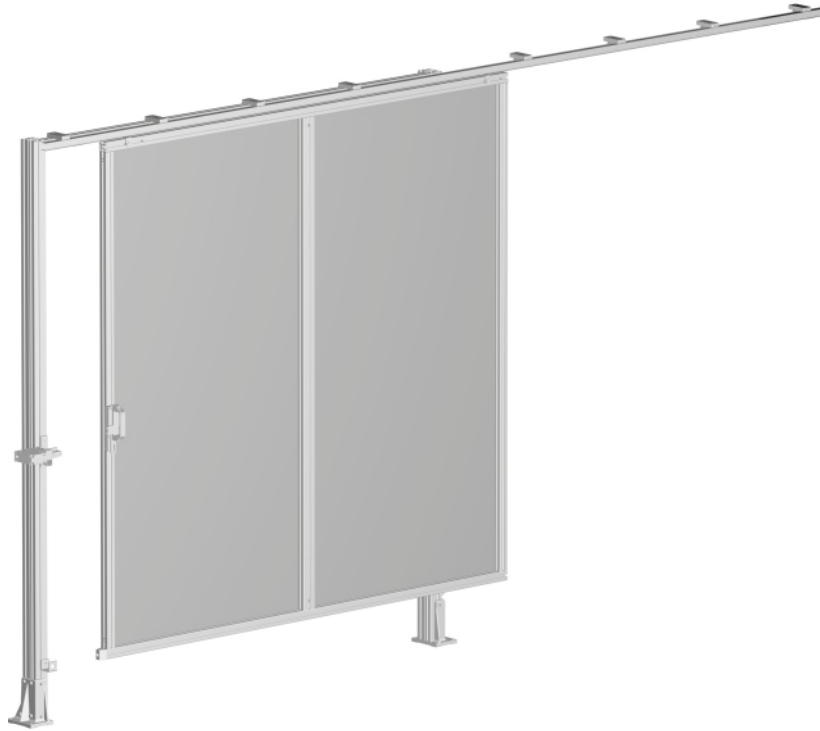
## Tür, 1-flügelig



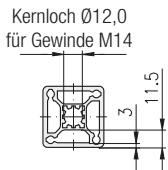
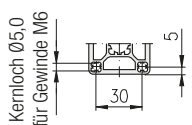
| Feld                              |               |           | Pfosten      |                    |       |            |                |              |       |       |       |            |       |       |          |          |
|-----------------------------------|---------------|-----------|--------------|--------------------|-------|------------|----------------|--------------|-------|-------|-------|------------|-------|-------|----------|----------|
| Flächenelement                    | Rahmen-Profil |           |              | Befestigung        |       |            | Pfosten-Profil |              |       |       |       |            |       |       |          |          |
|                                   | Standard      | Panel     | Wellengitter | für Flächenelement |       |            | Standard       |              |       |       |       |            |       |       |          |          |
|                                   | 40×40, 4E     | 45×45, 4E | 40×40        | 30×30              | 40×40 | Keilprofil | Klemmblocke    | Klemmbuchsen | 40×40 | 40×80 | 80×80 | 80×80, Eck | 45×45 | 45×90 | 60×80 5E | 60×80 6E |
| Polycarbonat transparent 4 mm     | •             |           |              |                    |       | •          | •              |              | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       | •          | •              |              |       |       |       |            | •     | •     |          |          |
|                                   |               |           | •            |                    |       |            |                |              |       |       |       |            |       |       | •        | •        |
| Wellengitter Alu 3×20×20 mm       | •             |           |              |                    |       |            |                | •            | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       |            |                | •            |       |       |       |            | •     | •     |          |          |
|                                   | •             |           |              |                    |       |            |                | •            | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       |            |                | •            |       |       |       |            | •     | •     |          |          |
|                                   |               |           |              | •                  | •     |            |                |              | •     | •     | •     | •          |       |       |          |          |
|                                   | •             |           |              |                    |       |            |                | •            | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       |            |                | •            |       |       |       |            | •     | •     |          |          |
|                                   |               |           |              | •                  | •     |            |                |              | •     | •     | •     | •          |       |       |          |          |
|                                   |               |           |              |                    |       |            |                |              |       |       |       |            |       |       |          |          |
| Schweißgitter Stahl 3×25×25 mm    | •             |           |              |                    |       | •          |                |              | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       | •          |                |              |       |       |       |            | •     | •     |          |          |
|                                   | •             |           |              |                    |       | •          |                |              | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       | •          |                |              |       |       |       |            | •     | •     |          |          |
|                                   |               |           | •            | •                  | •     |            |                |              | •     | •     | •     | •          |       |       |          | •        |
| Schweißschutzglas grün-braun 4 mm | •             |           |              |                    |       | •          |                |              | •     | •     | •     | •          |       |       |          |          |
|                                   |               | •         |              |                    |       | •          |                |              |       |       |       |            | •     | •     |          |          |
|                                   |               |           | •            |                    |       |            |                |              |       |       |       |            |       |       | •        | •        |

**Tür, 2-flügelig**

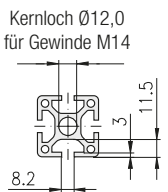
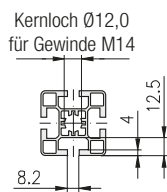
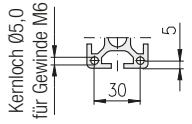
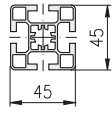

| Feld                     |           |                        |               |           |              |             |                    |            | Pfosten        |              |       |       |       |            |       |       | Verriegelung |          |      |       |   |   |
|--------------------------|-----------|------------------------|---------------|-----------|--------------|-------------|--------------------|------------|----------------|--------------|-------|-------|-------|------------|-------|-------|--------------|----------|------|-------|---|---|
| Flächenelement           |           |                        | Rahmen-Profil |           |              | Befestigung |                    |            | Pfosten-Profil |              |       |       |       |            |       |       |              |          |      |       |   |   |
|                          |           |                        | Standard      | Panel     | Wellengitter |             | für Flächenelement |            | Standard       |              |       |       |       | Panel      |       |       |              |          |      |       |   |   |
|                          |           |                        | 40×40, 4E     | 45×45, 4E | 40×40        | 30×30       | 40×40              | Keilprofil | Klemmblocke    | Klemmbuchsen | 40×40 | 40×80 | 80×80 | 80×80, Eck | 45×45 | 45×90 | 60×80 5E     | 60×80 6E | oben | unten |   |   |
| Polycarbonat transparent | 4 mm      |                        | •             |           |              |             |                    | •          | •              |              | •     | •     | •     | •          |       |       |              |          | •    | •     |   |   |
|                          |           |                        |               | •         |              |             |                    | •          | •              |              |       |       |       |            | •     | •     |              |          | •    | •     |   |   |
|                          |           |                        |               |           | •            |             |                    |            |                |              |       |       |       |            |       |       |              | •        | •    | •     | • |   |
| Wellengitter             | Alu       | 3×20×20 mm             | •             |           |              |             |                    |            |                | •            | •     | •     | •     |            |       |       |              |          | •    | •     |   |   |
|                          |           |                        |               | •         |              |             |                    |            |                | •            |       |       |       |            | •     | •     |              |          | •    | •     |   |   |
|                          |           | 4×30×30 mm             | •             |           |              |             |                    |            |                | •            | •     | •     | •     |            |       |       |              |          |      | •     | • |   |
|                          |           |                        |               | •         |              |             |                    |            |                |              | •     |       |       |            |       | •     | •            |          |      | •     | • |   |
|                          | Stahl     | 4×30×30 mm, 4×40×40 mm |               |           |              | •           | •                  |            |                |              | •     | •     | •     | •          | •     | •     |              |          |      | •     | • |   |
|                          |           |                        | •             | •         |              |             |                    |            |                | •            |       |       |       |            | •     | •     |              |          |      | •     | • |   |
|                          |           | 4×40×40 mm             |               |           |              | •           | •                  |            |                |              |       | •     | •     | •          | •     | •     | •            |          |      |       | • | • |
|                          |           |                        |               |           |              |             |                    |            |                |              |       | •     | •     | •          | •     | •     | •            |          | •    |       | • | • |
| Schweißgitter            | Stahl     | 3×25×25 mm             | •             |           |              |             |                    | •          |                |              | •     | •     | •     | •          |       |       |              |          | •    | •     |   |   |
|                          |           |                        |               | •         |              |             |                    |            | •              |              |       |       |       | •          | •     |       |              |          | •    | •     |   |   |
|                          |           | 4×40×40 mm             | •             |           |              |             |                    | •          |                |              | •     | •     | •     | •          |       |       |              |          |      | •     | • |   |
|                          |           |                        |               | •         |              |             |                    |            | •              |              |       |       |       |            | •     | •     |              |          |      | •     | • |   |
|                          |           |                        |               |           |              | •           | •                  | •          |                |              |       | •     | •     | •          | •     | •     | •            |          | •    |       | • | • |
| Schweißschutzglas        | grünbraun | 4 mm                   | •             |           |              |             |                    | •          |                |              | •     | •     | •     | •          |       |       |              |          | •    | •     |   |   |
|                          |           |                        |               | •         |              |             |                    |            | •              |              |       |       |       | •          | •     |       |              |          | •    | •     |   |   |
|                          |           |                        |               |           | •            |             |                    |            |                |              |       |       |       |            |       |       |              | •        | •    | •     | • |   |

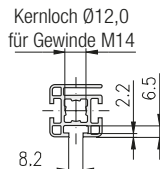
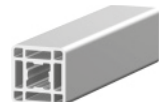
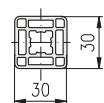
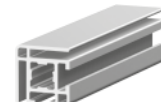
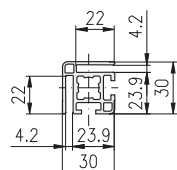
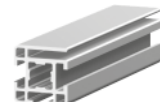
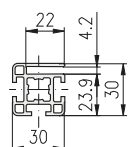
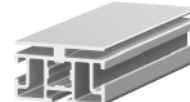
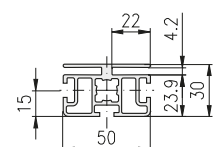
**Schiebetür**


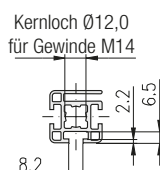
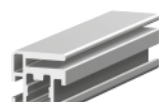
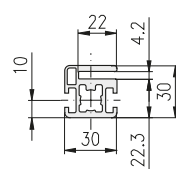
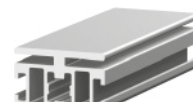
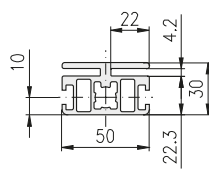
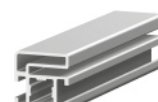
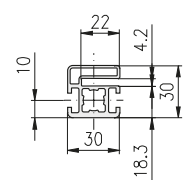
| Feld                                      |               |           | Pfosten      |                    |       |            |                |              |       |       |       |            |       |       |          |          |
|-------------------------------------------|---------------|-----------|--------------|--------------------|-------|------------|----------------|--------------|-------|-------|-------|------------|-------|-------|----------|----------|
| Flächenelement                            | Rahmen-Profil |           |              | Befestigung        |       |            | Pfosten-Profil |              |       |       |       |            |       |       |          |          |
|                                           | Standard      | Panel     | Wellengitter | für Flächenelement |       |            | Standard       |              |       |       |       |            |       |       |          |          |
|                                           | 40×40, 4E     | 45×45, 4E | 40×40        | 30×30              | 40×40 | Keilprofil | Klemmblocke    | Klemmbuchsen | 40×40 | 40×80 | 80×80 | 80×80, Eck | 45×45 | 45×90 | 60×80 5E | 60×80 6E |
| Polycarbonat transparent 4 mm             | •             |           |              |                    |       | •          | •              |              | •     | •     | •     | •          |       |       |          |          |
|                                           |               | •         |              |                    |       | •          | •              |              |       |       |       |            | •     | •     |          |          |
|                                           |               |           | •            |                    |       |            |                |              |       |       |       |            |       |       | •        | •        |
| Wellengitter Alu 3×20×20 mm               | •             |           |              |                    |       |            |                | •            | •     | •     | •     | •          |       |       |          |          |
|                                           |               | •         |              |                    |       |            |                | •            |       |       |       |            | •     | •     |          |          |
|                                           | •             |           |              |                    |       |            |                | •            | •     | •     | •     | •          |       |       |          |          |
|                                           |               | •         |              |                    |       |            |                | •            |       |       |       |            | •     | •     |          |          |
|                                           |               |           |              | •                  | •     |            |                |              | •     | •     | •     | •          | •     | •     |          |          |
|                                           | •             |           |              |                    |       |            |                | •            | •     | •     | •     | •          |       |       |          |          |
|                                           |               | •         |              |                    |       |            |                | •            |       |       |       |            | •     | •     |          |          |
|                                           |               |           |              | •                  | •     |            |                |              | •     | •     | •     | •          | •     | •     |          |          |
| Wellengitter Stahl 4×30×30 mm, 4×40×40 mm | •             |           |              |                    |       |            |                |              | •     | •     | •     | •          |       |       |          |          |
|                                           |               | •         |              |                    |       |            |                | •            |       |       |       |            | •     | •     |          |          |
|                                           | •             |           |              |                    |       |            |                |              | •     | •     | •     | •          | •     | •     |          |          |
|                                           |               | •         |              |                    |       |            |                | •            |       |       |       |            | •     | •     |          |          |
|                                           |               |           |              | •                  | •     |            |                |              | •     | •     | •     | •          | •     | •     |          |          |
| Schweißgitter Stahl 3×25×25 mm            | •             |           |              |                    |       | •          |                |              | •     | •     | •     | •          |       |       |          |          |
|                                           |               | •         |              |                    |       | •          |                |              |       |       |       |            | •     | •     |          |          |
|                                           | •             |           |              |                    |       | •          |                |              | •     | •     | •     | •          |       |       |          |          |
|                                           |               | •         |              |                    |       | •          |                |              |       |       |       |            | •     | •     |          |          |
|                                           |               |           | •            | •                  | •     |            |                |              | •     | •     | •     | •          | •     | •     |          | •        |
| Schweißschutzglas grün-braun 4 mm         | •             |           |              |                    |       | •          |                |              | •     | •     | •     | •          |       |       |          |          |
|                                           |               | •         |              |                    |       | •          |                |              |       |       |       |            | •     | •     |          |          |
|                                           |               |           | •            |                    |       |            |                |              |       |       |       |            |       |       | •        | •        |

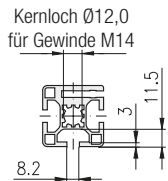
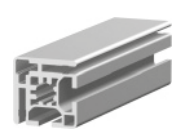
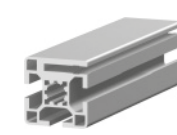
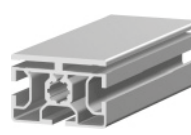
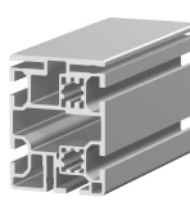
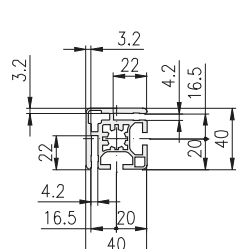
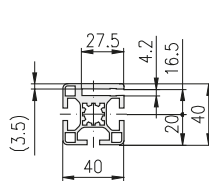
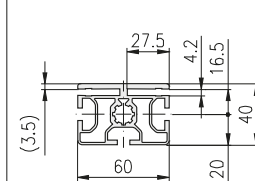
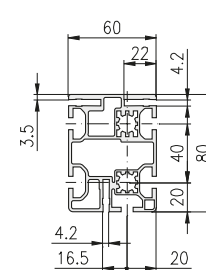
|                                                                                   |                         |                           |                             |  |
|-----------------------------------------------------------------------------------|-------------------------|---------------------------|-----------------------------|--|
| leicht                                                                            |                         |                           |                             |  |
|  |                         |                           |                             |  |
|  |                         |                           |                             |  |
| Bezeichnung                                                                       | Profil 40×40,<br>4E, LP | Profil 40×80,<br>6E, LP   | Profil 80×80,<br>8E, LP     |  |
| Stange, 6 m                                                                       | 1.11.040040.43LP.60     | 1.11.040080.64LP.60       | 1.11.080080.83LP.60         |  |
| Packereinheit (Stück)                                                             | 1.11.040040.43LP.61 (8) | 1.11.040080.64LP.61 (4)   | 1.11.080080.83LP.61 (2)     |  |
| Trägheitsmoment cm <sup>4</sup>                                                   | $I_x = 9,9$ $I_y = 9,9$ | $I_x = 62,7$ $I_y = 17,7$ | $I_x = 114,0$ $I_y = 114,0$ |  |
| Widerstandsmoment cm <sup>3</sup>                                                 | $W_x = 4,9$ $W_y = 4,9$ | $W_x = 15,6$ $W_y = 8,8$  | $W_x = 28,4$ $W_y = 28,4$   |  |
| Gewicht kg/m                                                                      | G = 1,5                 | G = 2,5                   | G = 4,1                     |  |

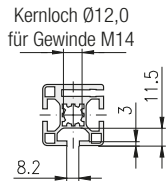
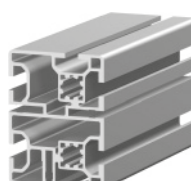
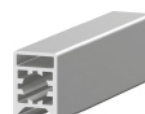
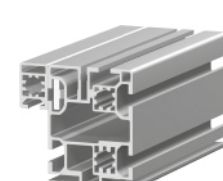
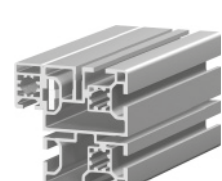
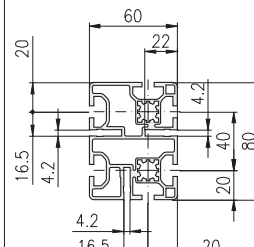
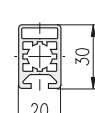
**Profilgruppe 40, E3-Nut**
**Profilgruppe 45, E4-Nut, P (plan)**

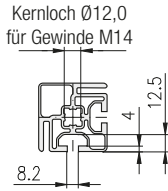
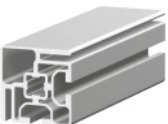
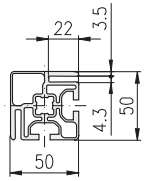
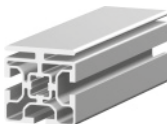
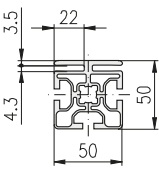
|                                                                                     |                                |                                                                                      |                           |                           |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------|---------------------------|---------------------------|
| schwer                                                                              |                                | leicht                                                                               |                           |                           |
|  |                                |   |                           |                           |
|  |                                |  |                           |                           |
| Bezeichnung                                                                         | Profil 80×80,<br>8E, Winkel, S | Bezeichnung                                                                          | Profil 45×45,<br>4E, LP   | Profil 45×90,<br>6E, LP   |
| Stange, 6 m                                                                         | 1.11.080080.87S.60             | Stange, 6 m                                                                          | 1.11.045045.43LP.60       | 1.11.045090.64LP.60       |
| Packereinheit (Stück)                                                               | 1.11.080080.87S.61 (2)         | Packereinheit (Stück)                                                                | 1.11.045045.43LP.61 (8)   | 1.11.045090.64LP.61 (4)   |
| Trägheitsmoment cm <sup>4</sup>                                                     | $I_x = 120,0$ $I_y = 120,0$    | Trägheitsmoment cm <sup>4</sup>                                                      | $I_x = 13,5$ $I_y = 13,5$ | $I_x = 98,0$ $I_y = 27,5$ |
| Widerstandsmoment cm <sup>3</sup>                                                   | $W_x = 23,8$ $W_y = 23,8$      | Widerstandsmoment cm <sup>3</sup>                                                    | $W_x = 6,0$ $W_y = 6,0$   | $W_x = 21,8$ $W_y = 12,2$ |
| Gewicht kg/m                                                                        | G = 6,3                        | Gewicht kg/m                                                                         | G = 1,9                   | G = 3,3                   |

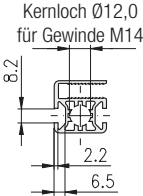
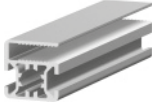
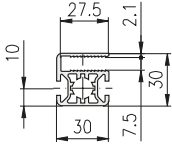
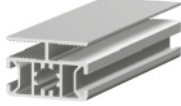
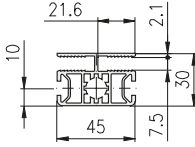
|                                                                                                                                 |                 |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                          |                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| leicht                                                                                                                          |                 |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                          |                                                                                                                                                                            |
| <div>Kernloch Ø12,0<br/>für Gewinde M14</div>  |                 | <br> | <br> | <br> | <br> |
| Bezeichnung                                                                                                                     |                 | Panel-Profil 30×30,<br>0F, LP                                                                                                                                          | Panel-Profil 30×30,<br>2F, Eck, LP 4                                                                                                                                   | Panel-Profil 30×30,<br>3F, LP 4                                                                                                                                          | Panel-Profil 30×50,<br>3F, LP 4                                                                                                                                            |
| Stange, 6 m                                                                                                                     |                 | 1.14.030030.03LP0.60                                                                                                                                                   | 1.14.030030.22LP4.60                                                                                                                                                   | 1.14.030030.33LP4.60                                                                                                                                                     | 1.14.030050.34LP4.60                                                                                                                                                       |
| Packeinheit                                                                                                                     | (Stück)         | 1.14.030030.03LP0.61(10)                                                                                                                                               | 1.14.030030.22LP4.61(10)                                                                                                                                               | 1.14.030030.33LP4.61(10)                                                                                                                                                 | 1.14.030050.34LP4.61 (6)                                                                                                                                                   |
| Trägheitsmoment                                                                                                                 | cm <sup>4</sup> | $I_x = 3,8$ $I_y = 3,8$                                                                                                                                                | $I_x = 3,3$ $I_y = 3,3$                                                                                                                                                | $I_x = 3,3$ $I_y = 2,8$                                                                                                                                                  | $I_x = 5,5$ $I_y = 11,8$                                                                                                                                                   |
| Widerstandsmoment                                                                                                               | cm <sup>3</sup> | $W_x = 2,4$ $W_y = 2,4$                                                                                                                                                | $W_x = 2,2$ $W_y = 2,2$                                                                                                                                                | $W_x = 2,2$ $W_y = 1,8$                                                                                                                                                  | $W_x = 3,6$ $W_y = 4,8$                                                                                                                                                    |
| Gewicht                                                                                                                         | kg/m            | G = 1,1                                                                                                                                                                | G = 1,0                                                                                                                                                                | G = 0,9                                                                                                                                                                  | G = 1,5                                                                                                                                                                    |

|                                                                                     |             |                                                                                                                                                                            |                                                                                                                                                                            |              |                                                                                                                                                                                |             |
|-------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| leicht                                                                              |             |                                                                                                                                                                            |                                                                                                                                                                            |              |                                                                                                                                                                                |             |
|  |             | <br> | <br> |              | <br> |             |
| Bezeichnung                                                                         |             | Panel-Profil 30×30,<br>2F, LP 5                                                                                                                                            | Panel-Profil 30×50,<br>2F, LP 5                                                                                                                                            |              | Panel-Profil 30×30,<br>2F, LP 6                                                                                                                                                |             |
| Stange, 6 m                                                                         |             | 1.14.030030.23LP5.60                                                                                                                                                       | 1.14.030050.24LP5.60                                                                                                                                                       |              | 1.14.030030.23LP6.60                                                                                                                                                           |             |
| Packeinheit (Stück)                                                                 |             | 1.14.030030.23LP5.61(10)                                                                                                                                                   | 1.14.030050.24LP5.61(10)                                                                                                                                                   |              | 1.14.030030.23LP6.61 (6)                                                                                                                                                       |             |
| Trägheitsmoment cm <sup>4</sup>                                                     | $I_x = 4,3$ | $I_y = 3,3$                                                                                                                                                                | $I_x = 7,0$                                                                                                                                                                | $I_y = 14,7$ | $I_x = 3,6$                                                                                                                                                                    | $I_y = 2,8$ |
| Widerstandsmoment cm <sup>3</sup>                                                   | $W_x = 2,8$ | $W_y = 2,2$                                                                                                                                                                | $W_x = 4,7$                                                                                                                                                                | $W_y = 5,9$  | $W_x = 2,4$                                                                                                                                                                    | $W_y = 1,9$ |
| Gewicht kg/m                                                                        | G = 1,2     |                                                                                                                                                                            | G = 1,9                                                                                                                                                                    |              | G = 1,0                                                                                                                                                                        |             |

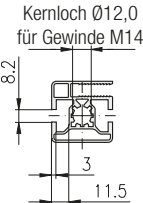
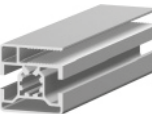
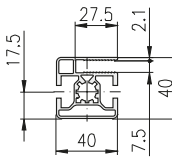
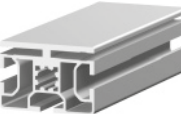
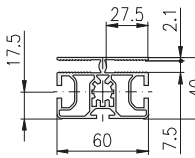
|                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                 |              |               |              |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|--------------|---------------|--------------|
| leicht                                                                            |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                 |              |               |              |
|  |  |  |  |  |                                 |              |               |              |
|                                                                                   |  |  |  |  |                                 |              |               |              |
|                                                                                   | Bezeichnung                                                                       | Panel-Profil 40×40,<br>2E, Eck, LP 4                                              | Panel-Profil 40×40,<br>3E, LP 4                                                    | Panel-Profil 40×60,<br>3E, LP 4                                                     | Panel-Profil 60×80,<br>5E, LP 4 |              |               |              |
|                                                                                   | Stange, 6 m                                                                       | 1.14.040040.22LP4.60                                                              | 1.14.040040.33LP4.60                                                               | 1.14.040060.34LP4.60                                                                | 1.14.060080.54LP4.60            |              |               |              |
|                                                                                   | Packereinheit (Stück)                                                             | 1.14.040040.22LP4.61 (8)                                                          | 1.14.040040.33LP4.61 (8)                                                           | 1.14.040060.34LP4.61 (8)                                                            | 1.14.060080.54LP4.61 (4)        |              |               |              |
| Trägheitsmoment cm <sup>4</sup>                                                   | $I_x = 10,3$                                                                      | $I_y = 10,3$                                                                      | $I_x = 10,2$                                                                       | $I_y = 8,7$                                                                         | $I_x = 14,8$                    | $I_y = 26,3$ | $I_x = 100,4$ | $I_y = 50,4$ |
| Widerstandsmoment cm <sup>3</sup>                                                 | $W_x = 5,2$                                                                       | $W_y = 5,2$                                                                       | $W_x = 5,1$                                                                        | $W_y = 4,3$                                                                         | $W_x = 7,4$                     | $W_y = 8,8$  | $W_x = 25,1$  | $W_y = 16,8$ |
| Gewicht kg/m                                                                      | G = 1,8                                                                           | G = 1,65                                                                          | G = 2,4                                                                            | G = 3,8                                                                             |                                 |              |               |              |

|                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                   |              |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------|--------------|
| leicht                                                                              |                                                                                     | Profil für Türanschlag                                                              |                                                                                      |                                                                                       |                   |              |
|  |  |  |  |  |                   |              |
|                                                                                     |  |  | Montage-Zeichnung                                                                    |                                                                                       | Montage-Zeichnung |              |
|                                                                                     | Bezeichnung                                                                         | Panel-Profil 60×80,<br>6E, LP 4                                                     | Profil 20×30,<br>1F, LP                                                              |                                                                                       |                   |              |
|                                                                                     | Stange, 6 m                                                                         | 1.14.060080.64LP4.60                                                                | 1.11.020030.14LP.60                                                                  |                                                                                       |                   |              |
|                                                                                     | Packereinheit (Stück)                                                               | 1.14.060080.64LP4.61 (4)                                                            | 1.11.020030.14LP.61 (10)                                                             |                                                                                       |                   |              |
| Trägheitsmoment cm <sup>4</sup>                                                     | $I_x = 85,8$                                                                        | $I_y = 50,8$                                                                        | $I_x = 113,0$                                                                        | $I_y = 64,0$                                                                          | $I_x = 89,2$      | $I_y = 53,3$ |
| Widerstandsmoment cm <sup>3</sup>                                                   | $W_x = 21,5$                                                                        | $W_y = 16,9$                                                                        | $W_x = 28,5$                                                                         | $W_y = 21,3$                                                                          | $W_x = 22,3$      | $W_y = 17,7$ |
| Gewicht kg/m                                                                        | G = 3,7                                                                             | G = 0,7                                                                             | G = 4,5                                                                              | G = 4,4                                                                               |                   |              |

|                                                                                                     |                                                                                                                                                                     |                                                                                                                                                                     |  |  |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <div>leicht</div>  |   |   |  |  |
| Bezeichnung                                                                                         | Panel-Profil 50×50,<br>2E, Eck, LP 4                                                                                                                                | Panel-Profil 50×50,<br>3E, LP 4                                                                                                                                     |  |  |
| Stange, 6 m                                                                                         | 1.14.050050.22LP4.60                                                                                                                                                | 1.14.050050.39LP4.60                                                                                                                                                |  |  |
| Packeinheit (Stück)                                                                                 | 1.14.050050.22LP4.61 (6)                                                                                                                                            | 1.14.050050.39LP4.61 (6)                                                                                                                                            |  |  |
| Trägheitsmoment cm <sup>4</sup><br>Widerstandsmoment cm <sup>3</sup><br>Gewicht kg/m                | I <sub>x</sub> = 19,4 I <sub>y</sub> = 19,4<br>W <sub>x</sub> = 7,6 W <sub>y</sub> = 7,6<br>G = 2,4                                                                 | I <sub>x</sub> = 24,1 I <sub>y</sub> = 21,4<br>W <sub>x</sub> = 8,0 W <sub>y</sub> = 8,5<br>G = 2,7                                                                 |  |  |

|                                                                                                     |             |                                                                                                                                                                     |                                                                                                                                                                     |             |  |
|-----------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--|
| <div>leicht</div>  |             |   |   |             |  |
| Bezeichnung                                                                                         |             | Wellengitter-Profil 30×30, 2F, LP 7,5                                                                                                                               | Wellengitter-Profil 30×45, 2F, LP 7,5                                                                                                                               |             |  |
| Stange, 6 m                                                                                         |             | 1.15.030030.23LP7.60                                                                                                                                                | 1.15.030045.24LP7.60                                                                                                                                                |             |  |
| Packereinheit (Stück)                                                                               |             | 1.15.030030.23LP7.61(10)                                                                                                                                            | 1.15.030045.24LP7.61 (8)                                                                                                                                            |             |  |
| Trägheitsmoment cm <sup>4</sup>                                                                     | $I_x = 2,6$ | $I_y = 3,2$                                                                                                                                                         | $I_x = 4,3$                                                                                                                                                         | $I_y = 7,4$ |  |
| Widerstandsmoment cm <sup>3</sup>                                                                   | $W_x = 1,7$ | $W_y = 2,1$                                                                                                                                                         | $W_x = 2,9$                                                                                                                                                         | $W_y = 3,3$ |  |
| Gewicht kg/m                                                                                        | $G = 0,86$  |                                                                                                                                                                     | $G = 1,15$                                                                                                                                                          |             |  |

**Wellengitter-Profil 40, F / E3-Nut, P (plan)**

|                                                                                                       |             |                                                                                                                                                                         |                                                                                                                                                                         |              |  |
|-------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--|
| <div>leicht</div>  |             |   |   |              |  |
| Bezeichnung                                                                                           |             | Wellengitter-Profil 40×40, 2E, LP 7,5                                                                                                                                   | Wellengitter-Profil 40×60, 2E, 1F, LP 7,5                                                                                                                               |              |  |
| Stange, 6 m                                                                                           |             | 1.15.040040.23LP7.60                                                                                                                                                    | 1.15.040060.34LP7.60                                                                                                                                                    |              |  |
| Packereinheit (Stück)                                                                                 |             | 1.15.040040.23LP7.61 (8)                                                                                                                                                | 1.15.040060.34LP7.61 (8)                                                                                                                                                |              |  |
| Trägheitsmoment cm <sup>4</sup>                                                                       | $I_x = 7,5$ | $I_y = 8,2$                                                                                                                                                             | $I_x = 12,2$                                                                                                                                                            | $I_y = 22,5$ |  |
| Widerstandsmoment cm <sup>3</sup>                                                                     | $W_x = 3,8$ | $W_y = 4,1$                                                                                                                                                             | $W_x = 6,1$                                                                                                                                                             | $W_y = 7,5$  |  |
| Gewicht kg/m                                                                                          | $G = 1,35$  |                                                                                                                                                                         | $G = 1,97$                                                                                                                                                              |              |  |

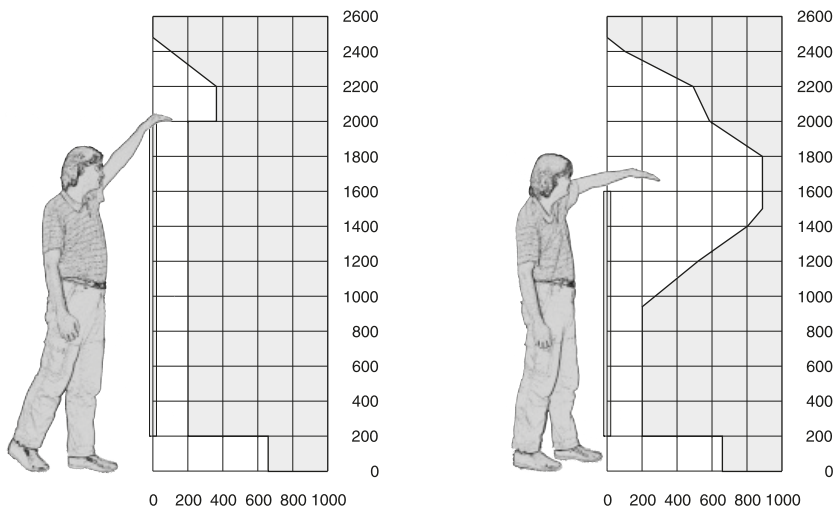
## Normen für trennende Schutzeinrichtungen

### EN 294 - Sicherheitsabstände gegen das Erreichen von Gefahrenstellen mit den oberen Gliedmaßen

Neben den „Grundlegenden Sicherheitsanforderungen“ der **Maschinenrichtlinie 98/37/EG** und der **DIN EN ISO 12100 Teil 1+2** - Sicherheit von Maschinen - sind für die Gestaltung von trennenden Schutzeinrichtungen (z.B. Schutzzäune) folgende Sicherheitsfachgrundnormen (Typ-B-Normen) zu beachten.

Die Sicherheitsabstände sind von der Höhe der Schutzeinrichtung und von der Größe der Öffnungen im Schutzgitter abhängig. Bei einer Maschenweite von 40×40 mm ist ein Abstand zum Gefahrenbereich von 200 mm erforderlich.

Die unteren Abbildungen stellen ein Profil der Sicherheitsabstände unter Berücksichtigung von **EN 294** und **EN 811** für zwei verschiedene Systemhöhen dar. Die tatsächliche Auslegung erfordert in jedem Fall eine Risikobewertung gemäß **DIN EN ISO 12100**.

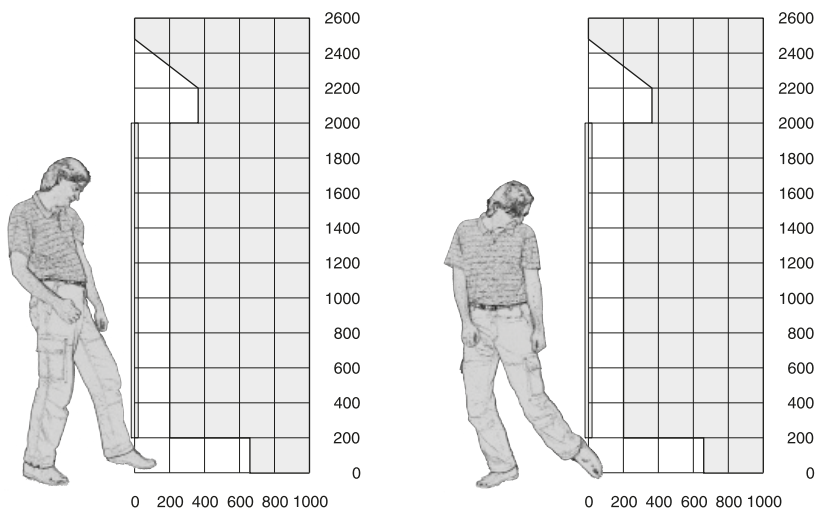


### EN 811 - Sicherheitsabstände gegen das Erreichen von Gefahrenstellen mit den unteren Gliedmaßen

Unter folgenden Voraussetzungen sind in EN 811 größere Öffnungen zulässig, als in EN 294:

- alle zu berücksichtigenden Personen sind mindestens 14 Jahre alt
- es kann begründbar vorhergesehen werden, dass nur die unteren Gliedmaßen zum Erreichen der Gefahrenbereiche verwendet werden.

Gemäß EN 811 erlauben Öffnungen, die größer als 180 mm (schlitzförmig) bzw. 240 mm (quadratisch / kreisförmig) sind, den Zugang für den ganzen Körper. Daneben existiert eine erweiterte Regelung für Bodenabstände, wobei der Zugang aus der Standposition vorausgesetzt wird. Bei 200 mm Bodenfreiheit ergibt sich hieraus der dargestellte Sicherheitsabstand von 665 mm im Fußbereich.



### DIN EN 953 - Trennende Schutzeinrichtungen

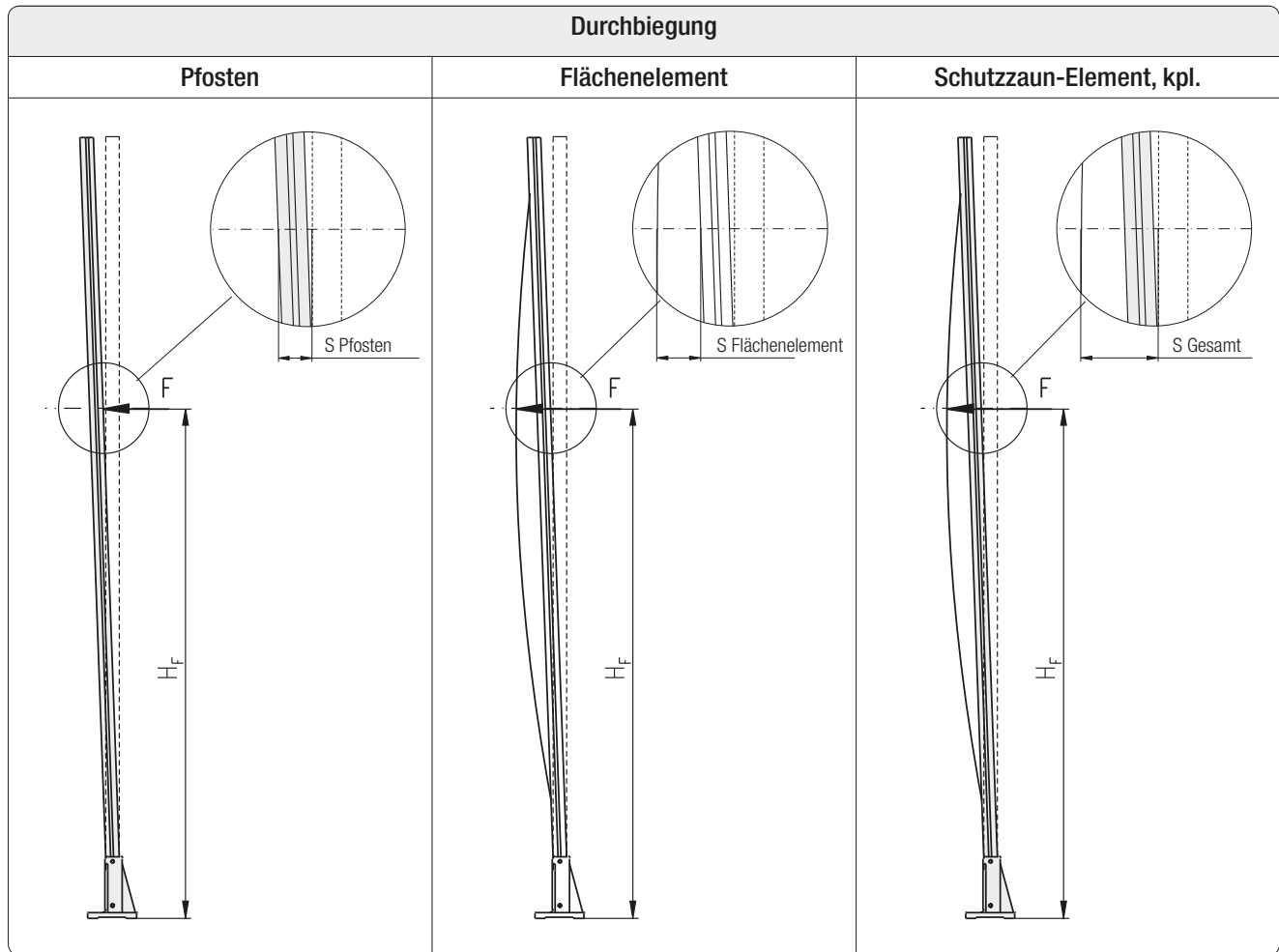
Allgemeine Anforderungen an Gestaltung und Bau von feststehenden und beweglichen trennenden Schutzeinrichtungen.

#### Hinweis

Wurde für bestimmte Maschinen eine Maschinensicherheitsnorm (Typ-C-Norm) erstellt, so haben die Angaben der Typ-C-Norm Vorrang.

#### Beispiele für Typ-C-Normen:

DIN EN 619 - Stetigförderer für Stückgut  
DIN EN 693 - Hydraulische Pressen  
DIN EN 775 - Sicherheit Industrieroboter



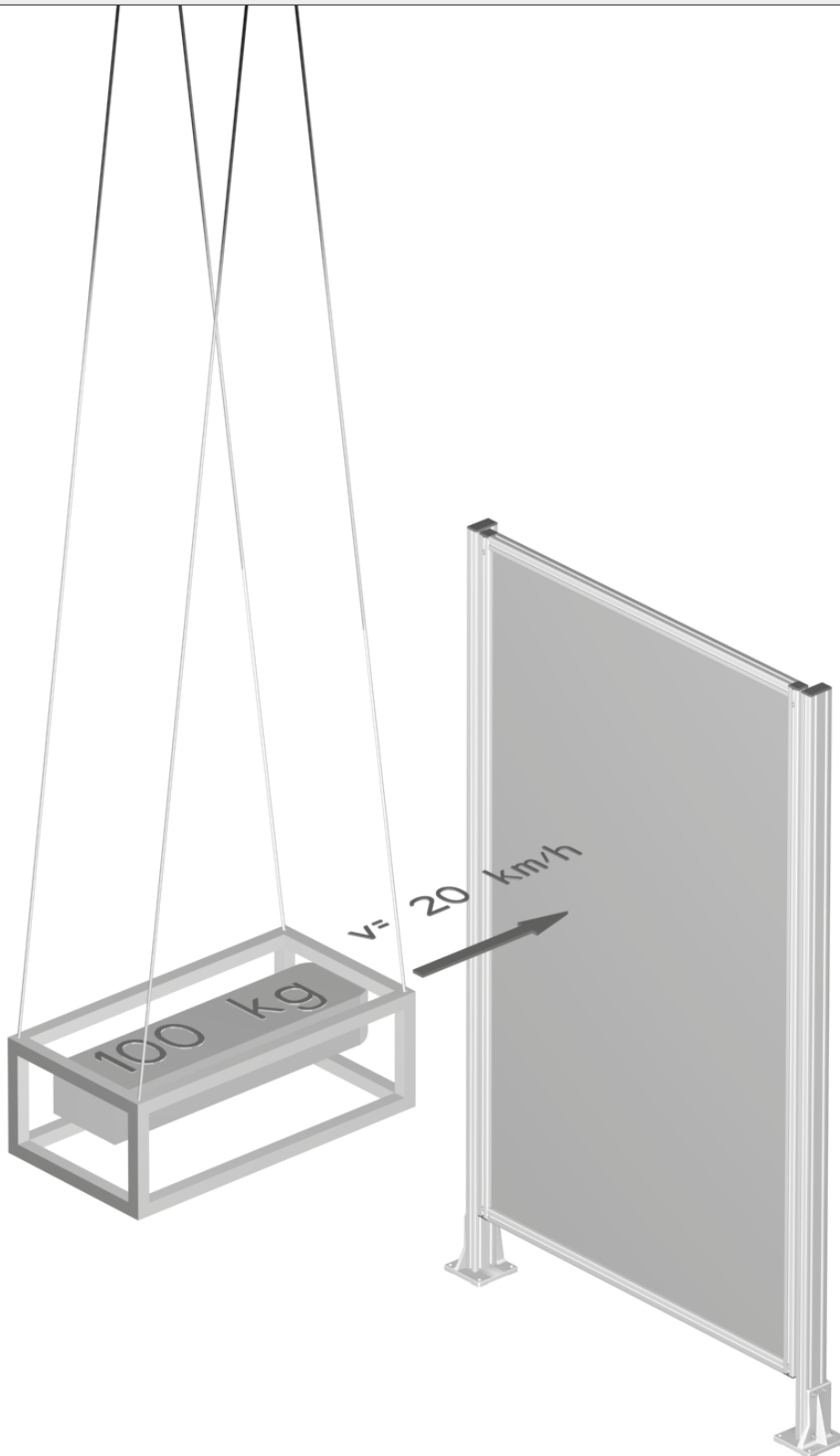
**Schutzzaun-Feld: ohne Rahmen**  
**Flächenelement: Polycarbonat 4 mm**

| F in N |     |     |     |     |       |       |       |
|--------|-----|-----|-----|-----|-------|-------|-------|
| 100    | 150 | 300 | 450 | 600 | 1.000 | 1.500 | 2.000 |

| Standard-Profil | Pfosten                                      | H <sub>F</sub>         |      | S in mm |      |      |      |      |       |       |
|-----------------|----------------------------------------------|------------------------|------|---------|------|------|------|------|-------|-------|
|                 | Profil 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  |
|                 | Schutzzaun-Element, kpl.                     | H <sub>F</sub> = 1.500 |      | S in mm |      |      |      |      |       |       |
|                 | Profil 40×80, 6E, LP<br>Profil 40×40, 4E, LP | Pfosten                | 2,0  | 2,5     | 5,0  | 8,0  | 10,0 | 17,5 | 31,0  | 48,0  |
|                 |                                              | Flächenelement         | 30,0 | 38,0    | 49,0 | 59,0 | 65,0 | 82,0 | 98,0  | 115,0 |
|                 |                                              | Gesamt                 | 32,0 | 40,5    | 54,0 | 67,0 | 75,0 | 99,0 | 129,0 | 163,0 |

| Panel-Profil | Pfosten                                                    | H <sub>F</sub>         |      | S in mm |      |      |      |      |       |       |
|--------------|------------------------------------------------------------|------------------------|------|---------|------|------|------|------|-------|-------|
|              | Profil 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  |
|              | Schutzzaun-Element, kpl.                                   | H <sub>F</sub> = 1.500 |      | S in mm |      |      |      |      |       |       |
|              | Profil 60×80, 6E, Panel, LP<br>Profil 40×80, 3E, Panel, LP | Pfosten                | 1,5  | 2,0     | 3,5  | 5,0  | 7,0  | 13,0 | 20,0  | 26,0  |
|              |                                                            | Flächenelement         | 35,0 | 39,0    | 48,0 | 54,0 | 60,0 | 73,0 | 84,0  | 94,0  |
|              |                                                            | Gesamt                 | 36,5 | 41,0    | 51,5 | 59,0 | 67,0 | 86,0 | 104,0 | 120,0 |

## Versuchs-Anordnung


**Testbedingungen**

Bei diesem Test wird eine Masse von 100 kg auf eine Geschwindigkeit von 20 km/h beschleunigt.  
 Beim Aufprall der Masse in den Testzaun wird eine Energie von 1600 Joule frei.  
 Der Aufprallpunkt liegt im oberen Drittel des Testzauns.

## Schutzzaun-Feld: ohne Rahmen

Test mit:

Flächenelement:

Polycarbonat 4 mm

Pfosten:

Alu-Panel-Profil 60×80 mm

Rahmen:

Alu-Panel-Profil 40×40 mm



vor dem Aufschlag



beim Aufschlag



nach dem Aufschlag

**Ergebnis**

Die MayTec-Schutzzaun-Elemente haben den Crash-Test ohne bleibende Beschädigung überstanden.



## Schutzzaun-Feld: mit Rahmen

Test mit:

Flächenelement:

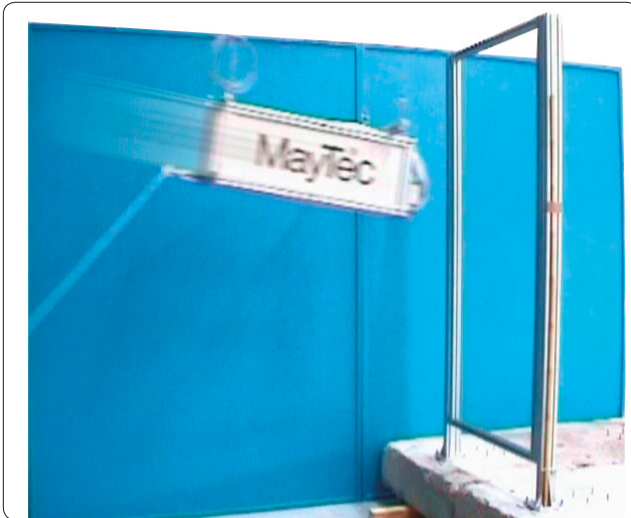
Polycarbonat 4 mm

Pfosten:

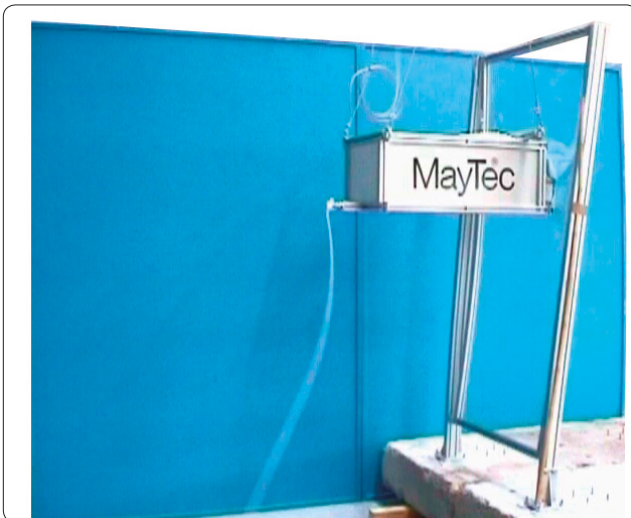
Alu-Panel-Profil 60×80 mm

Rahmen:

Alu-Panel-Profil 40×40 mm



vor dem Aufschlag



beim Aufschlag



nach dem Aufschlag

**Ergebnis**

Die MayTec-Schutzzaun-Elemente haben den Crash-Test ohne bleibende Beschädigung überstanden.



## Schutzzaun-Feld: mit Rahmen

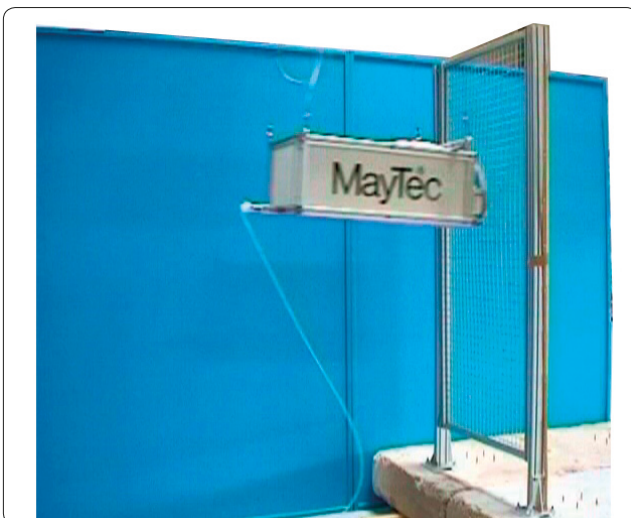
|           |                 |             |                                  |
|-----------|-----------------|-------------|----------------------------------|
| Test mit: | Flächenelement: |             | Stahl-Schweißgitter 4×40×40 mm   |
|           | Pfosten:        |             | Alu-Panel-Profil 60×80 mm        |
|           | Rahmen          | vertikal:   | Alu-Panel-Profil 40×40 mm        |
|           |                 | horizontal: | Alu-Wellengitter-Profil 30×30 mm |



vor dem Aufschlag



beim Aufschlag



nach dem Aufschlag

**Ergebnis**

Die MayTec-Schutzzaun-Elemente haben den Crash-Test ohne bleibende Beschädigung überstanden.



**Impressum**

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D - 85221 Dachau, 2012

**Der Schlüssel ...**

**zum Erfolg**

**extrem stabil**

**wirtschaftlich**

**funktionell**

### **Australien**

**MayTec Australia P/L**

Unit 8, 175 James Ruse Drive  
Rosehill, NSW 2142

Landesvorwahl: +61  
Telefon: (0)2/ 9898 9929  
Telefax: (0)2/ 9638 4086  
e-mail: [info@maytec.com.au](mailto:info@maytec.com.au)  
<http://www.maytec.com.au>

### **Deutschland**

**MayTec Aluminium**  
Systemtechnik GmbH  
Kopernikusstraße 20  
D-85221 Dachau

Landesvorwahl: +49  
Telefon: (0)8131/3336-0  
Telefax: (0)8131/3336-119  
e-mail: [mail@maytec.de](mailto:mail@maytec.de)  
<http://www.maytec.de>

### **USA**

**MayTec Inc.**

901 Wesemann Drive  
West Dundee, IL 60118

Landesvorwahl: +1  
Telefon: 847-429-0321  
Telefax: 847-429-0460  
e-mail: [mail@maytecinc.com](mailto:mail@maytecinc.com)  
<http://www.maytecinc.com>

**MayTec**  
Vertriebspartner