

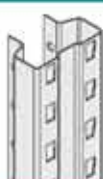
# BITO

**Palettenregal | Pallet racking**

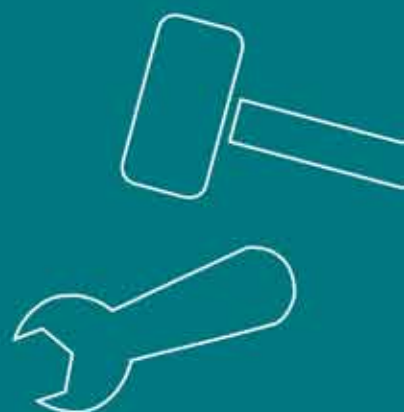
## PL-PRO



DIN EN ISO 9001:2008

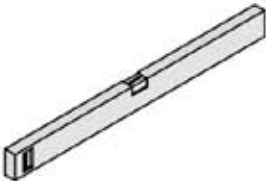
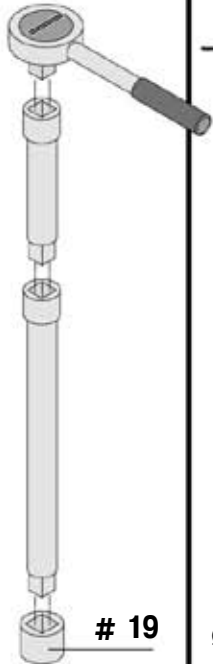
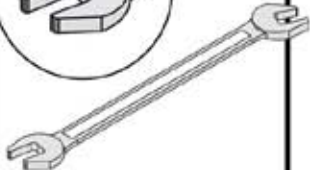
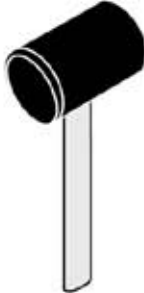


- DE Aufbau- und Bedienanleitung**  
**GB Instructions for assembly and use**  
**FR** Instructions de montage et d'utilisation  
**BE** Richtlijnen en montagehandleiding  
**ES** Instrucciones de montaje y manejo  
**PT** Instruções de montagem e de serviço  
**IT** Istruzioni per il montaggio e l'impiego  
**DK** Montage- og betjeningsvejledning  
**HU** összeállítási és kezelési útmutató  
**PL** Instrukcja montażu i użytkowania  
**CZ** Návod k montáži a obsluze  
**SK** Návod na montáž a použitie  
**RO** Instrucțiuni de asamblare și utilizare

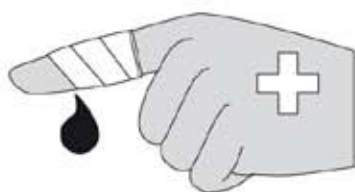


08-2011

|                                                                                    |                                                                                    |                                                                                                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|   |   |  3, 4, 22-25 |
|   |   |  4-10        |
|   |   |  11-25       |
|  |  |  26-35      |

|                                                                                                                                                                                               |                                                                                     |                                                                                     |                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
|                                                                                                            |  |  |                      |
| # 10, 13, 16, 17<br><br> |  |                                                                                     | <br>Ø 10, 12, 14 mm |

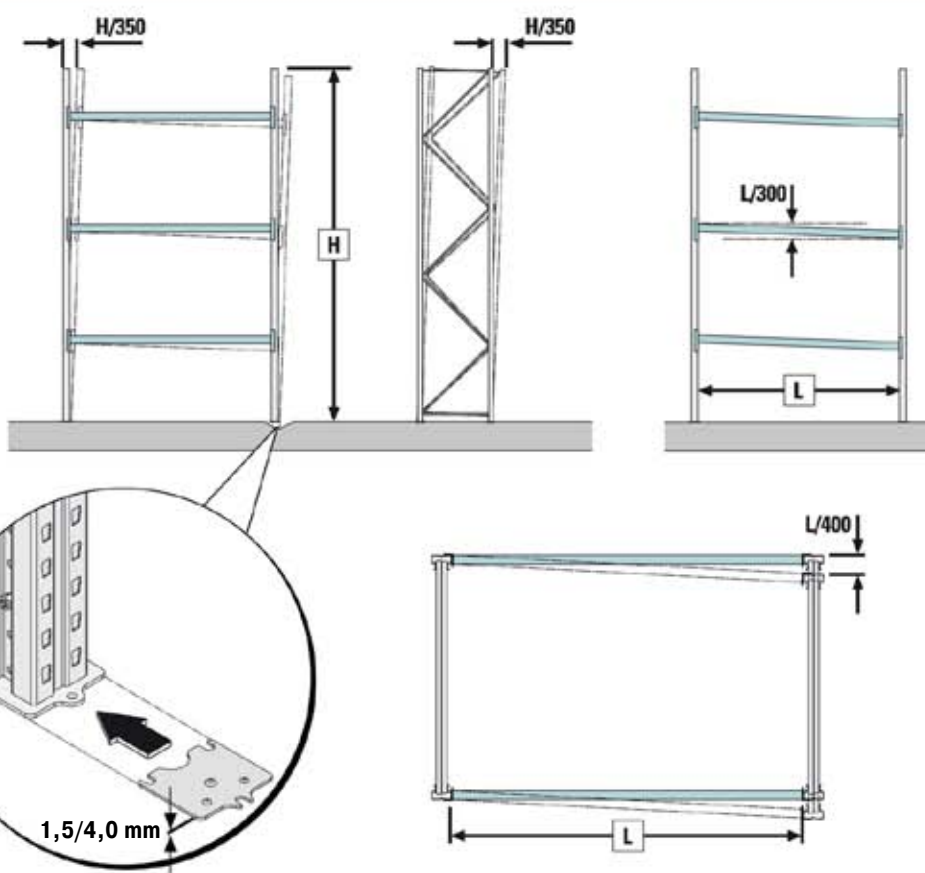




BGR 234



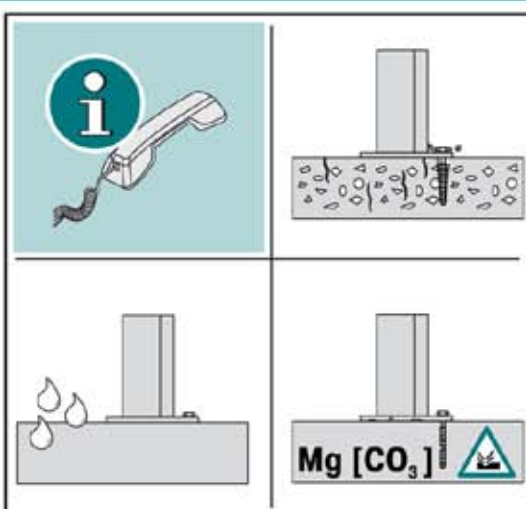
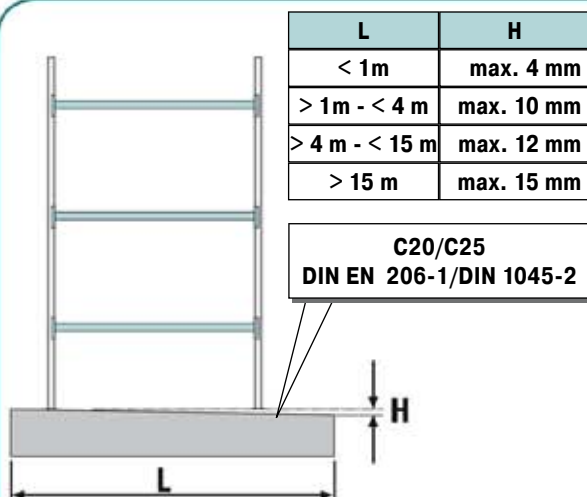
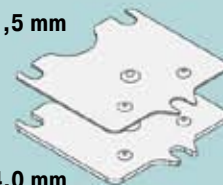
DIN 15635

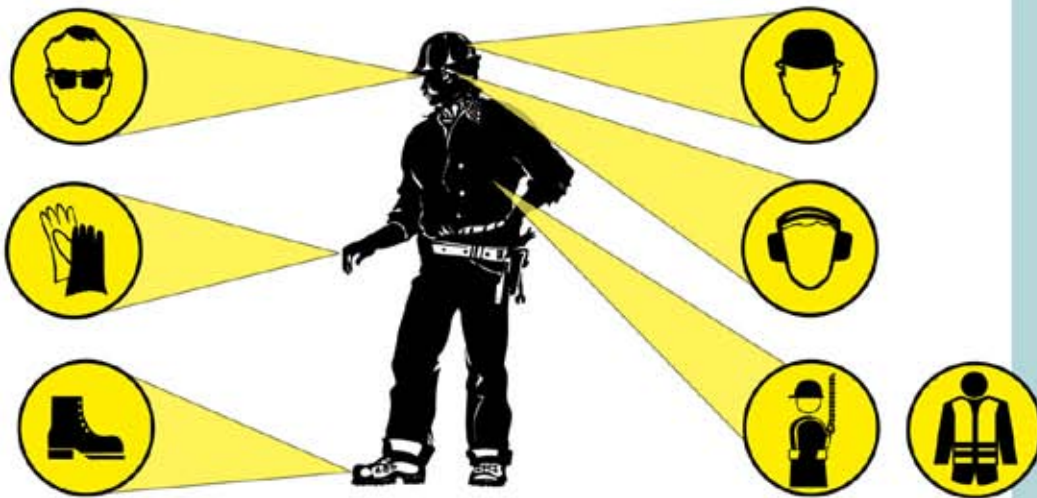


DIN EN 15620

1,5 mm

4,0 mm

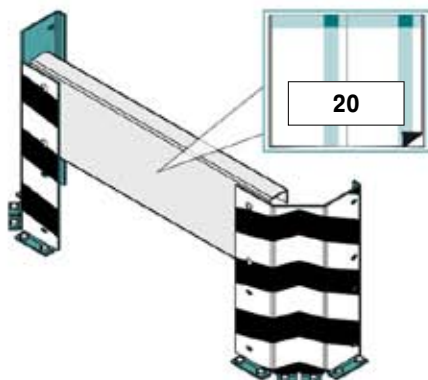
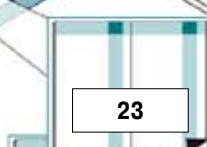
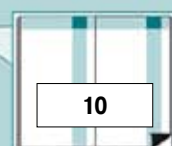
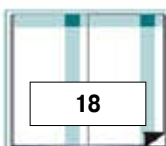
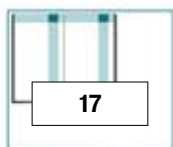
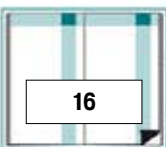
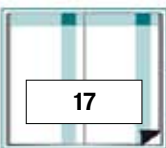
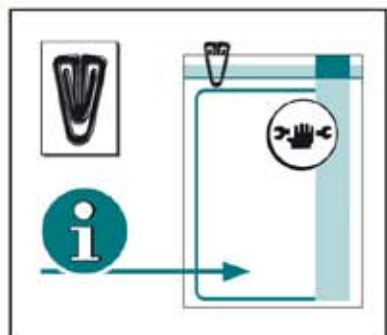




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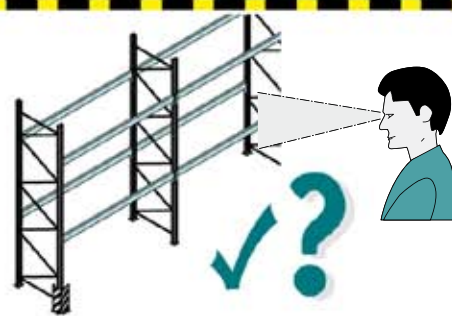


DIN 15635

| 2010 |   |   |   |   |   |   |   |   |    |    |    |
|------|---|---|---|---|---|---|---|---|----|----|----|
| 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

| 2011 |   |   |   |   |   |   |   |   |    |    |    |
|------|---|---|---|---|---|---|---|---|----|----|----|
| 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

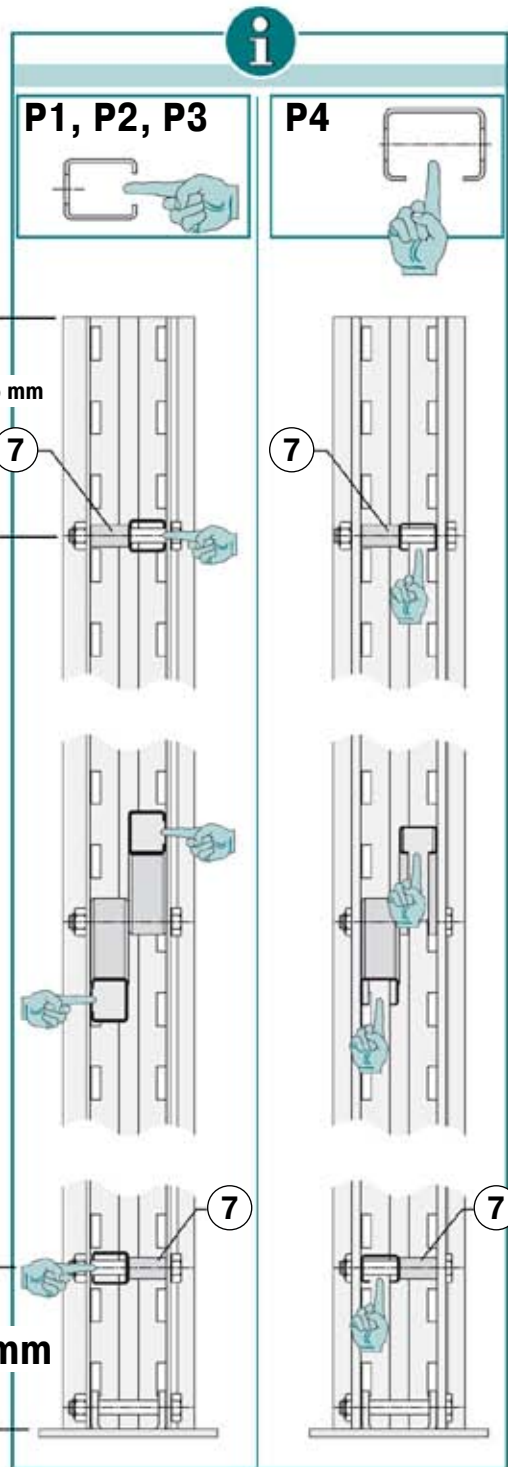
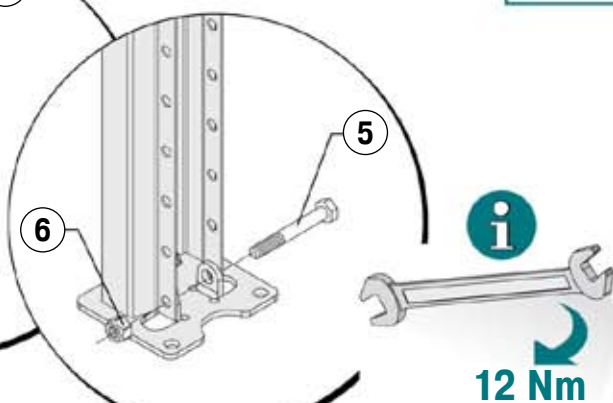
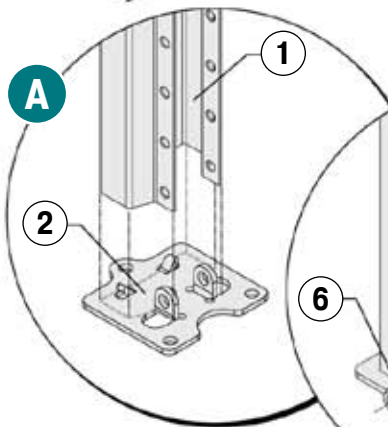
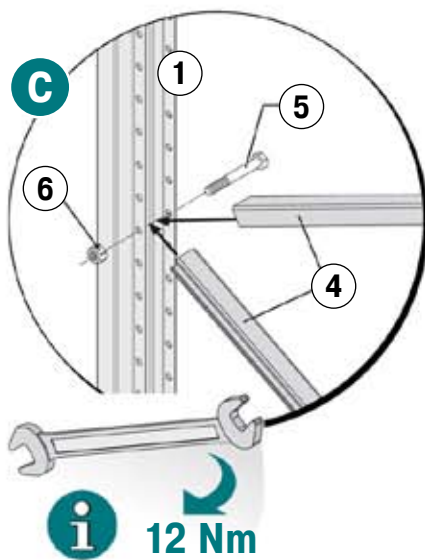
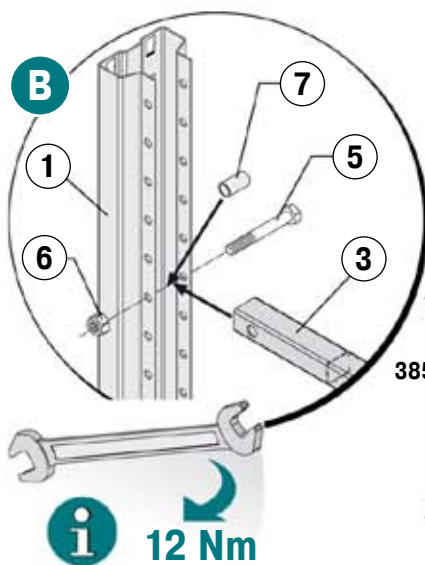
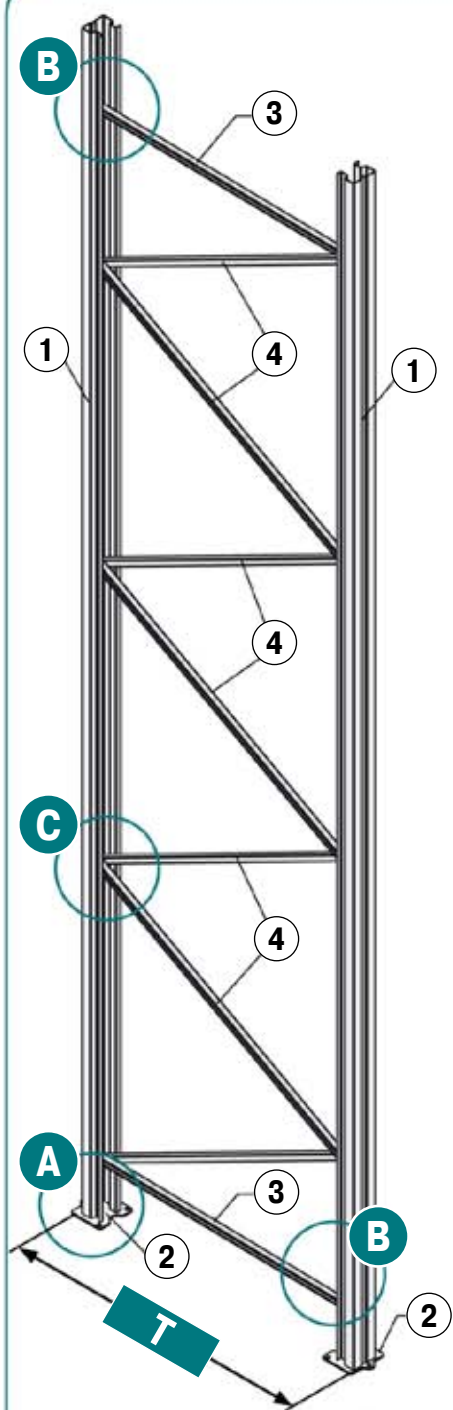
1x



[www.bito.de](http://www.bito.de)

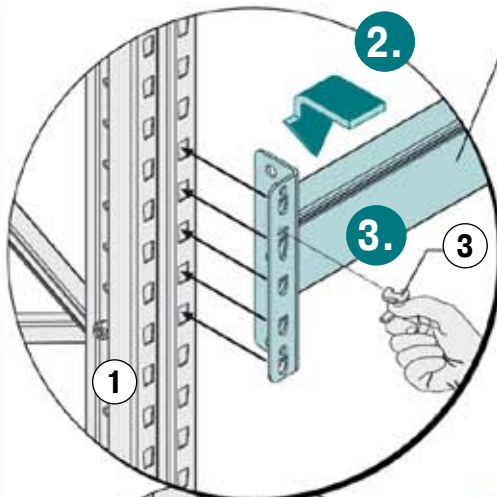


0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 mm









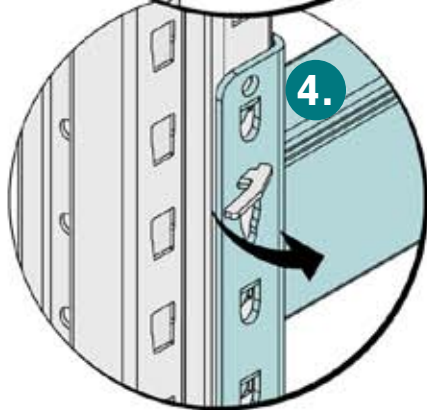
2

2.

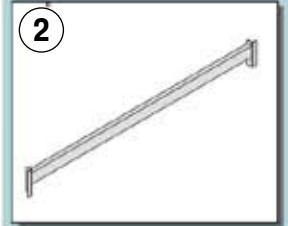
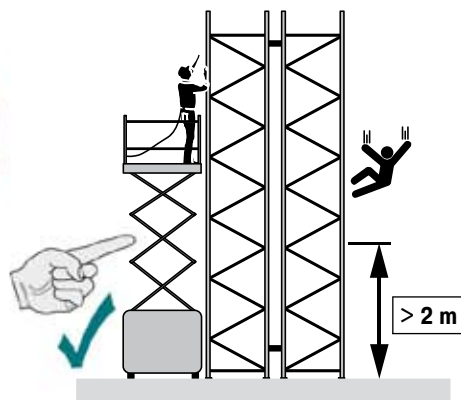
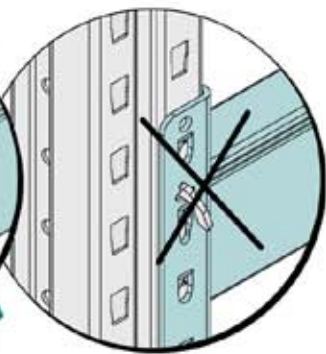
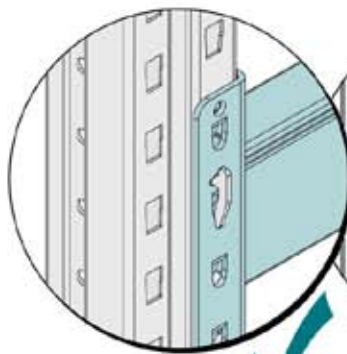
3.

3

1.



4.



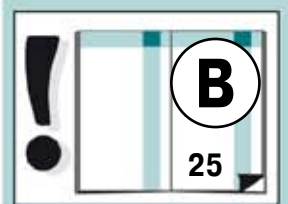
2



2

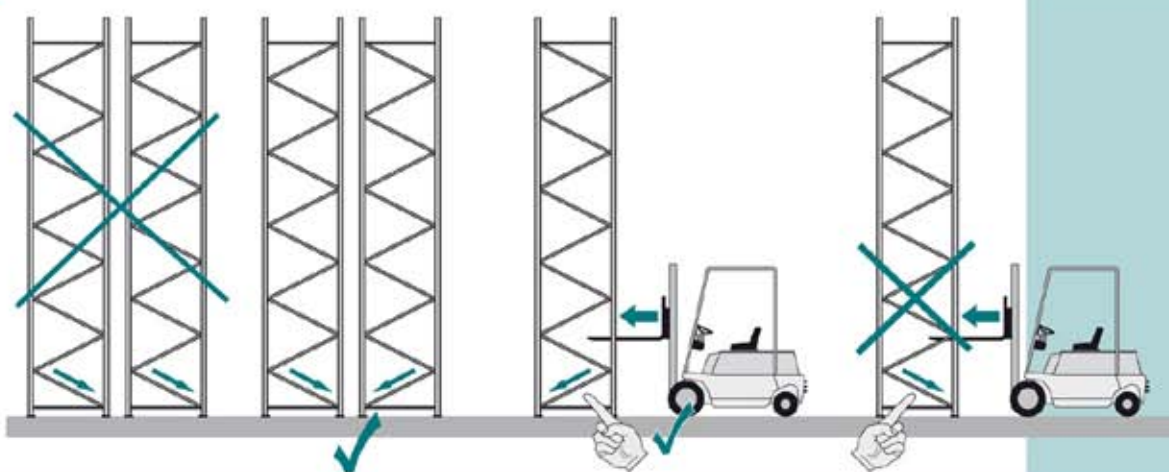
= 2x

3

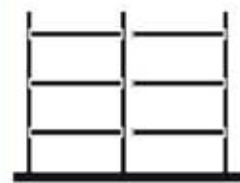
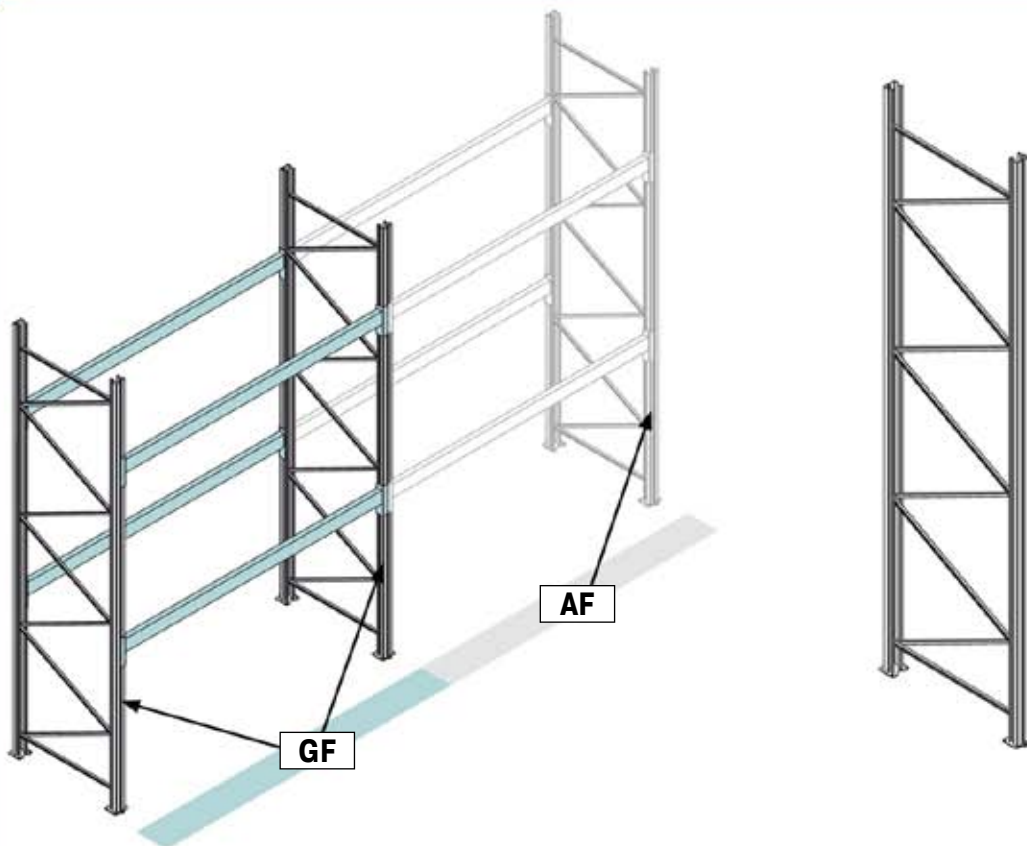


B

25

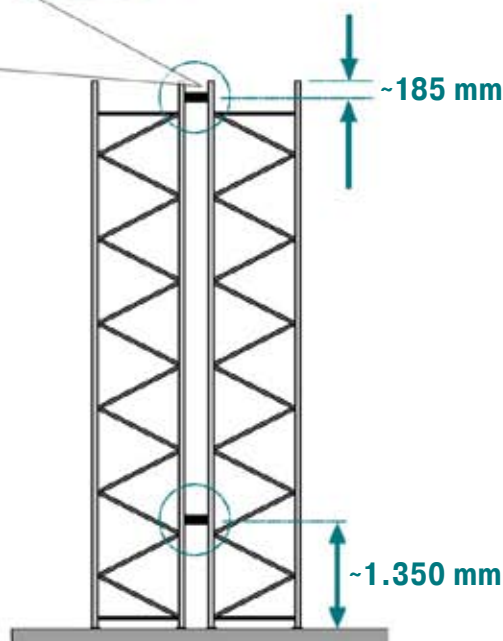
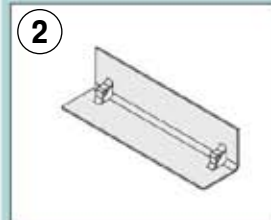
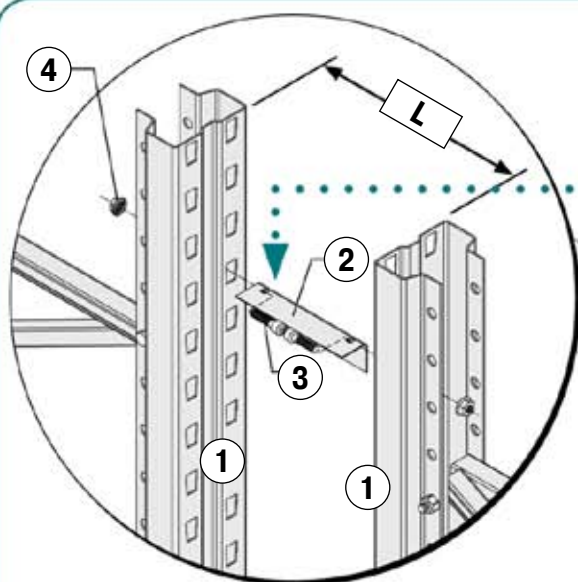






GF = 2x

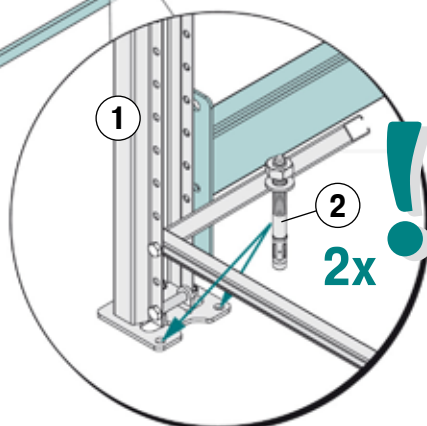
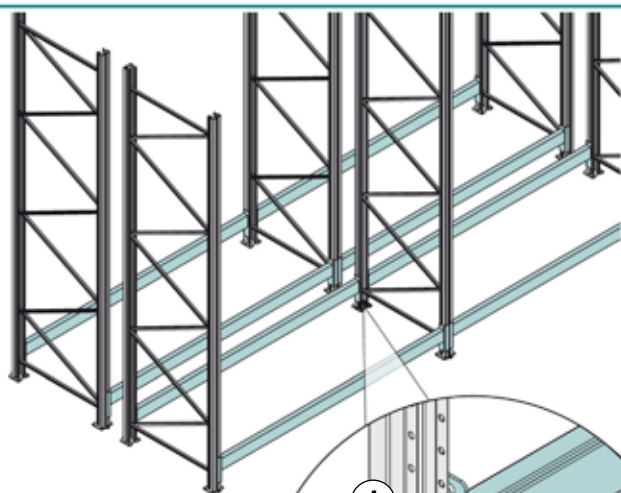
AF = 1x



| 2 |  | 50 x 50 x L mm               |     | 2x |
|---|--|------------------------------|-----|----|
| 3 |  | M10x40 mm<br>DIN EN ISO 4762 | 8.8 | 4x |
| 4 |  | M10                          | 8   | 4x |



0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 mm



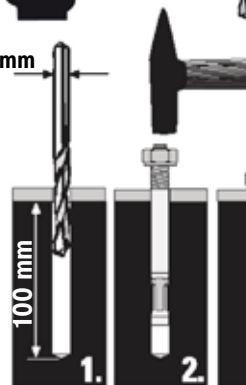
2



M10/20

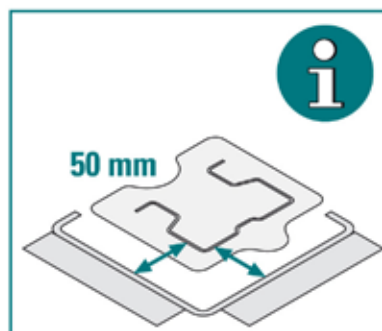
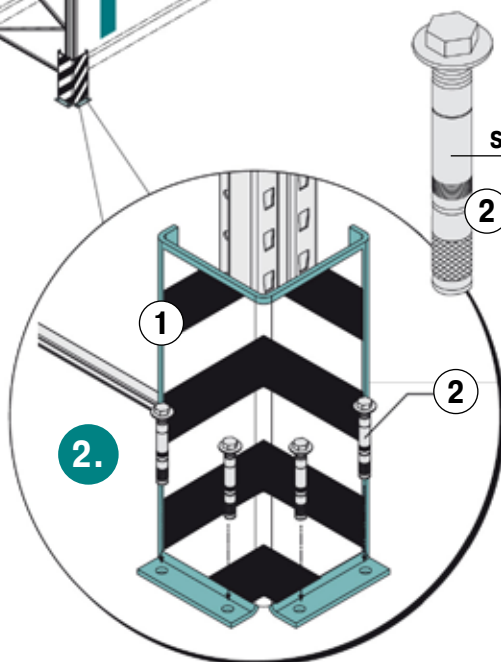
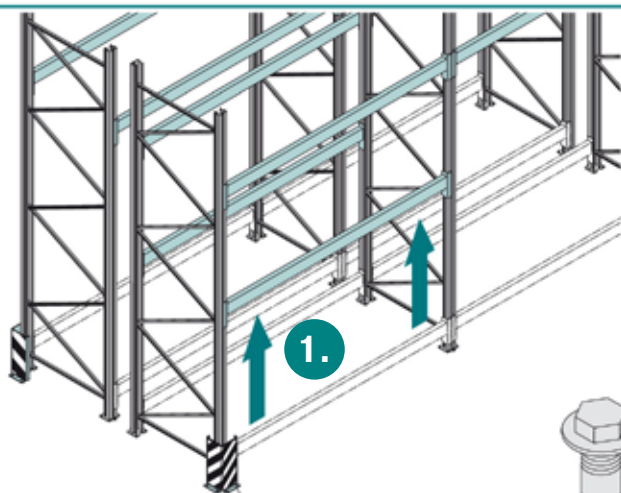


Ø 10 mm



45 Nm

max. 20 mm



1

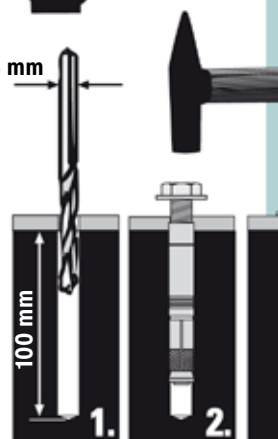


4x  
S14/10

2

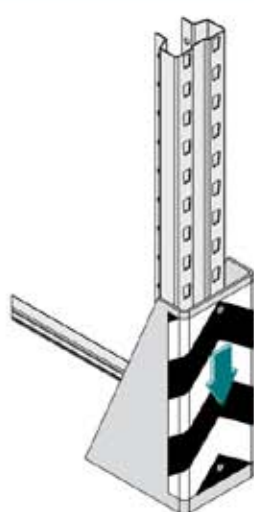
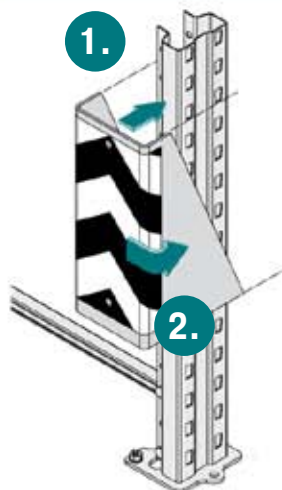
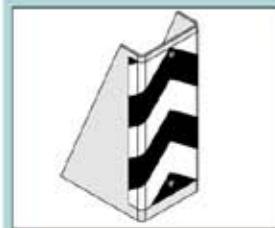


Ø14 mm

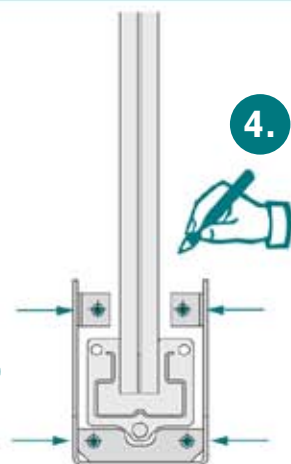


50 Nm

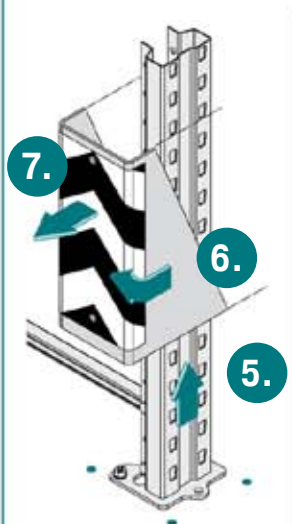




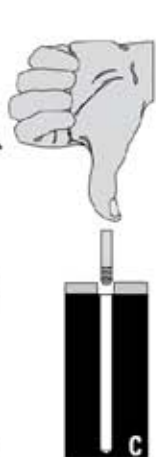
3.



4.

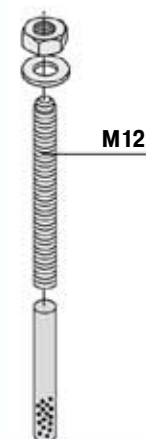


8.

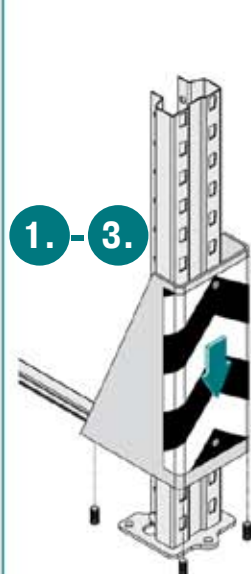


| °C        |         |
|-----------|---------|
| > 20      | 20 min. |
| +10 → +20 | 30 min. |
| 0 → +10   | 1 h     |
| -5 → 0    | 5 h     |

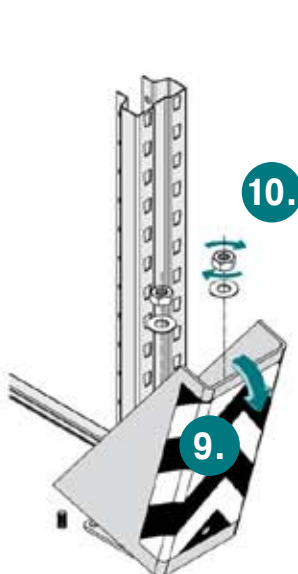
4x



M12

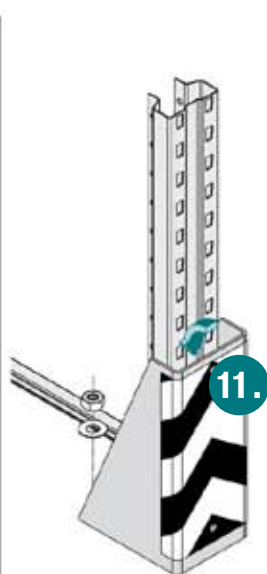


1. - 3.

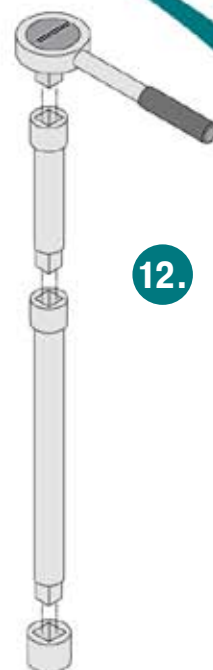


9.

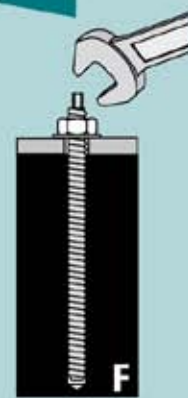
10.



11.



12.

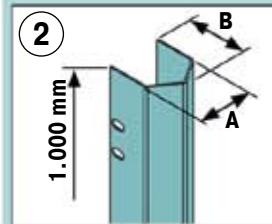
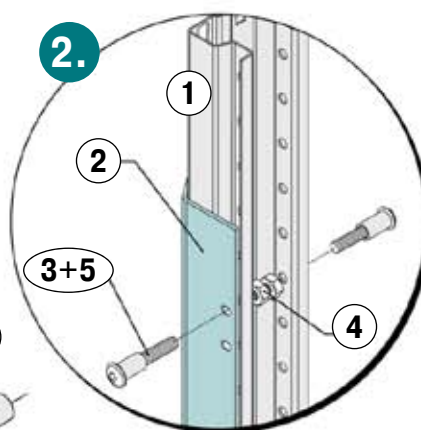
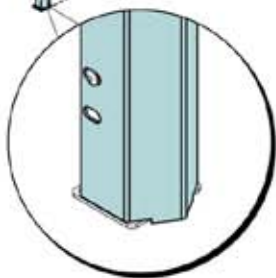
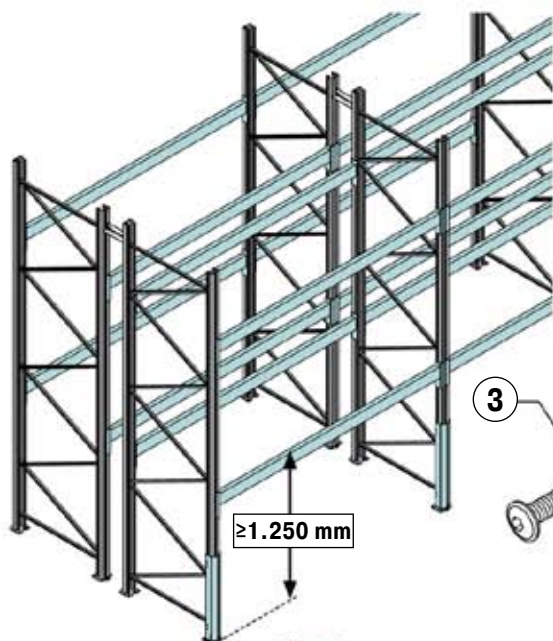


F

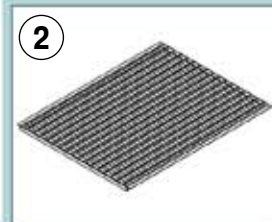
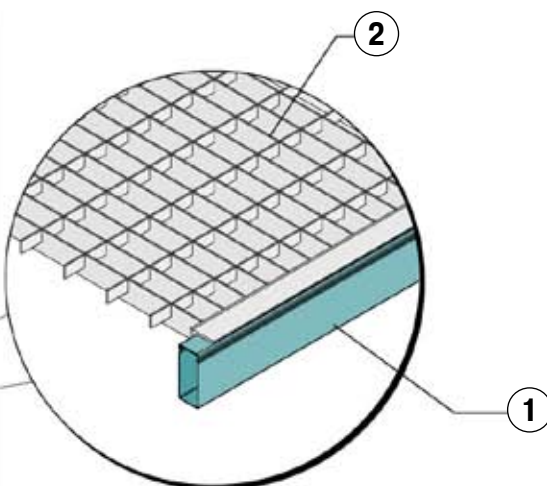
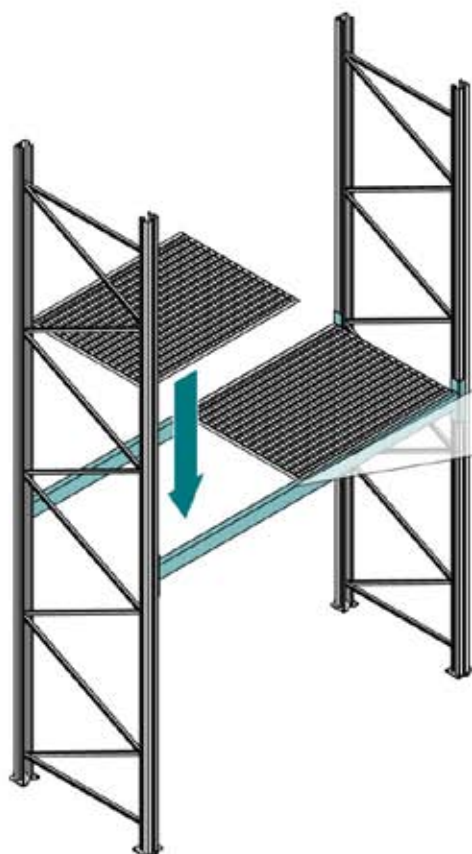


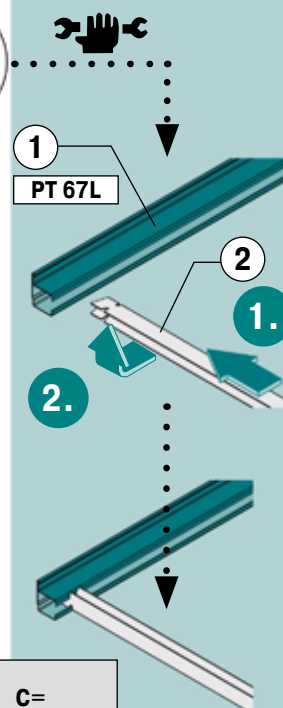
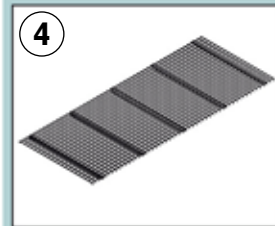
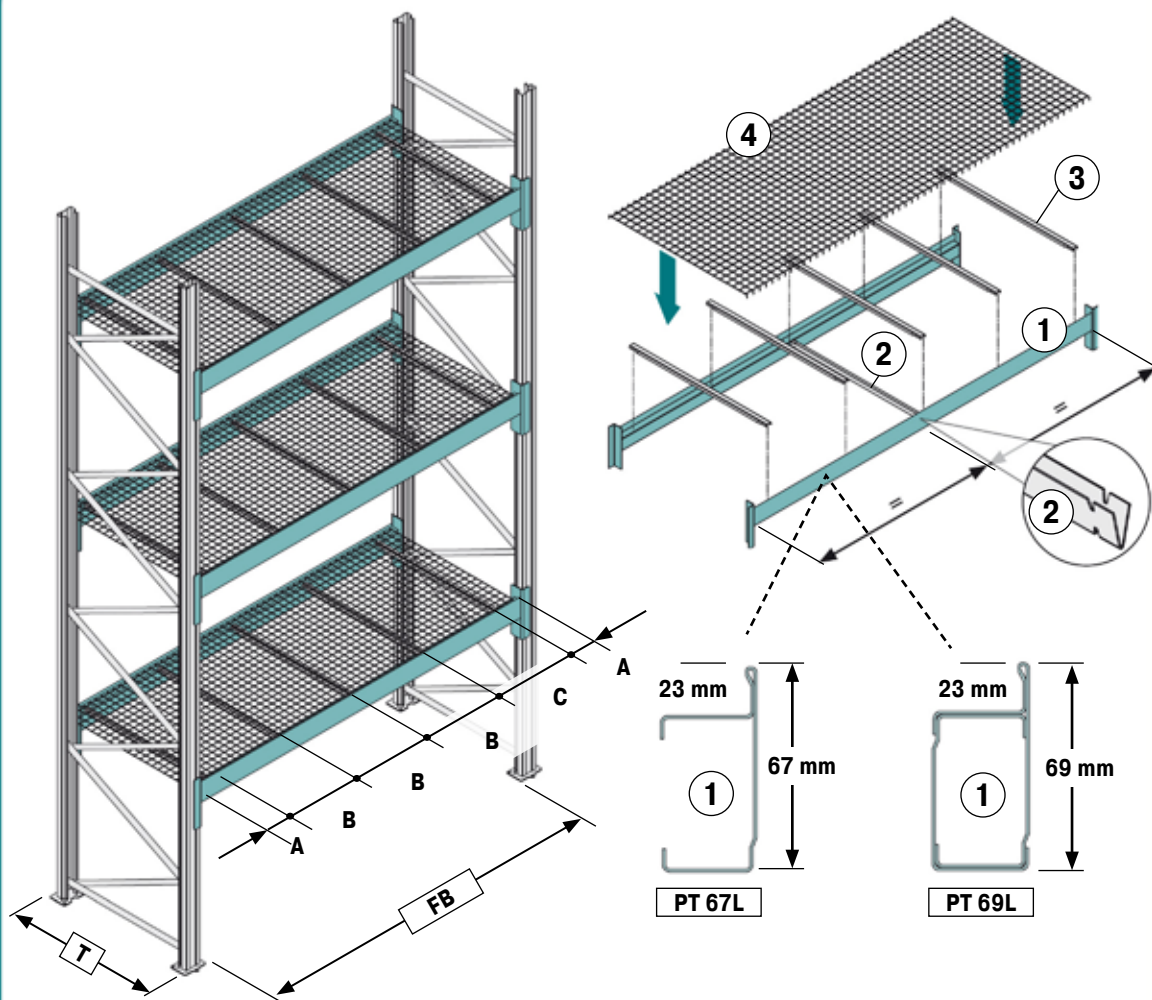
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 mm





| 1  | 2                | 3                             | 4                | 5                |
|----|------------------|-------------------------------|------------------|------------------|
|    |                  | <br>8.8<br>DIN EN ISO<br>7380 | <br>8<br>DIN 934 |                  |
|    | (A x B) 1x       | 4x                            | 4x               | 4x               |
| P1 | 81,5 x 110 mm    | M10 x 35                      | M10              | 14 x 1,5 x 16 mm |
| P2 | 91,5 x 105 mm    | M10 x 35                      | M10              | 14 x 1,5 x 21 mm |
| P3 | 101,5 x 101,5 mm | M10 x 40                      | M10              | 14 x 1,5 x 25 mm |
| P4 | 121,5 x 125,5 mm | M10 x 40                      | M10              | 14 x 1,5 x 25 mm |

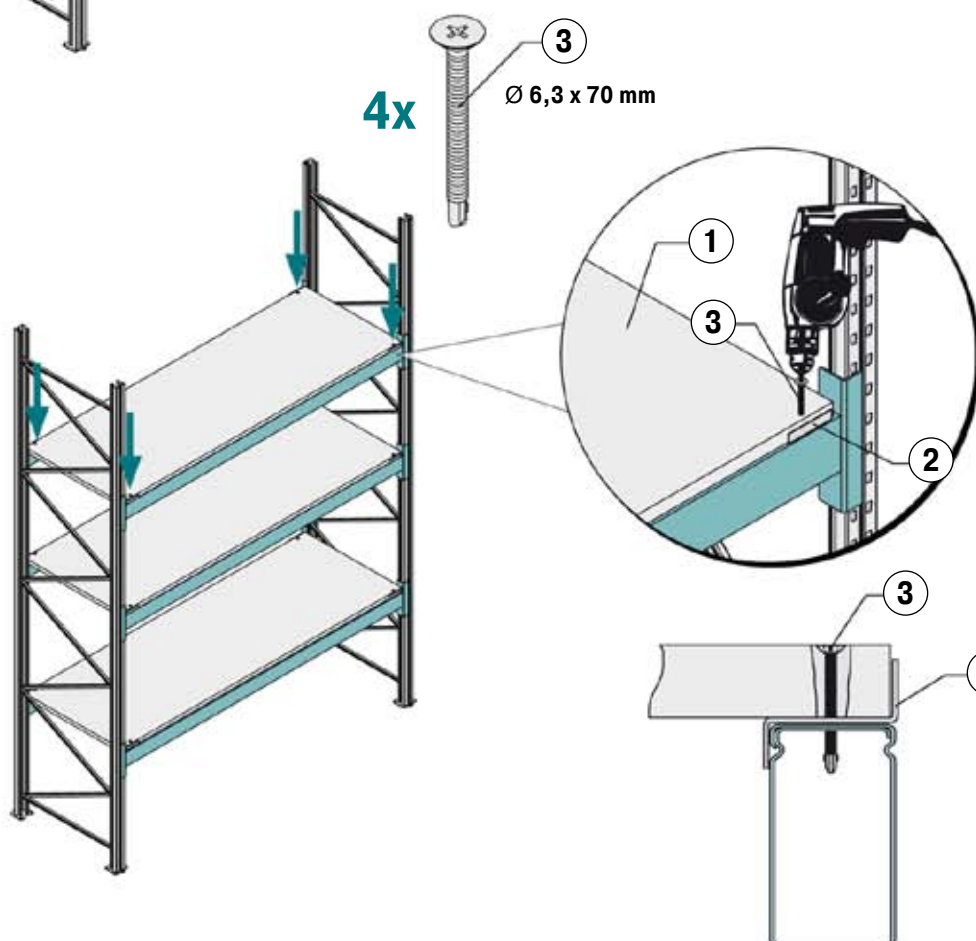
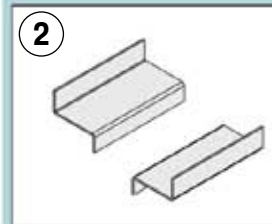
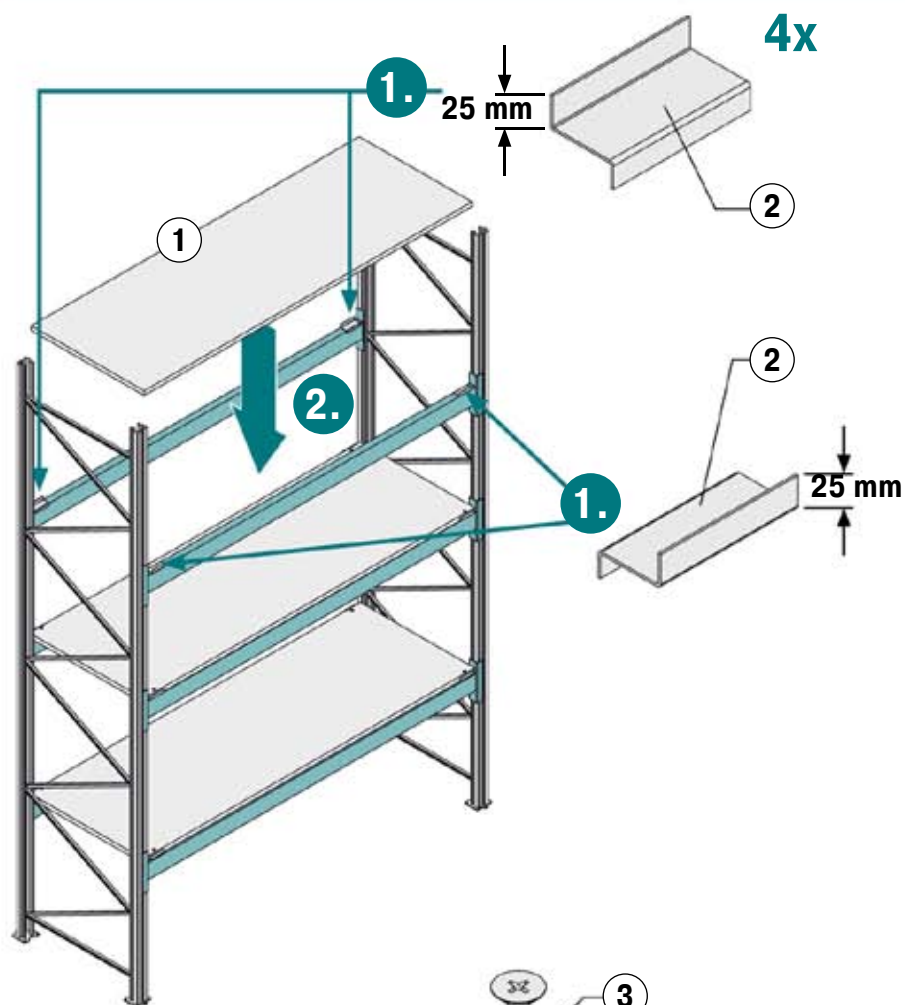




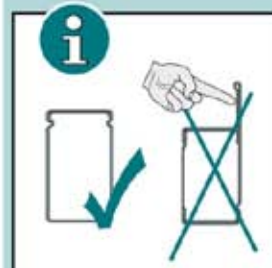
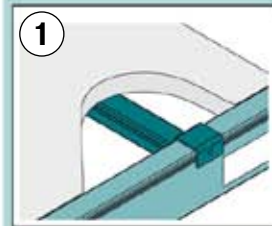
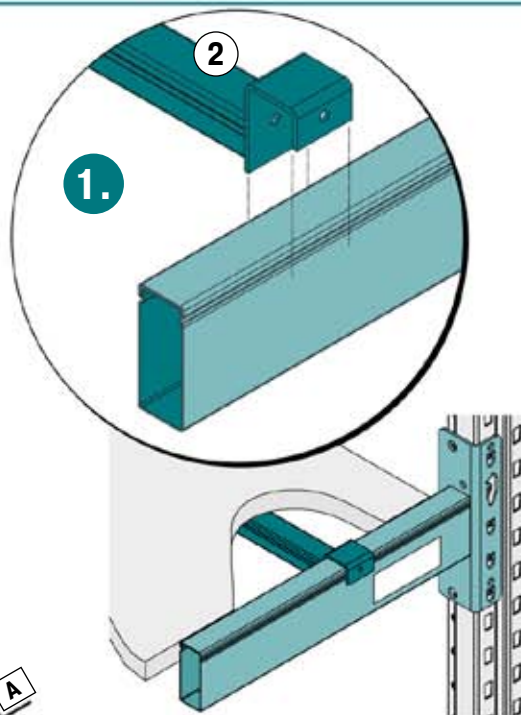
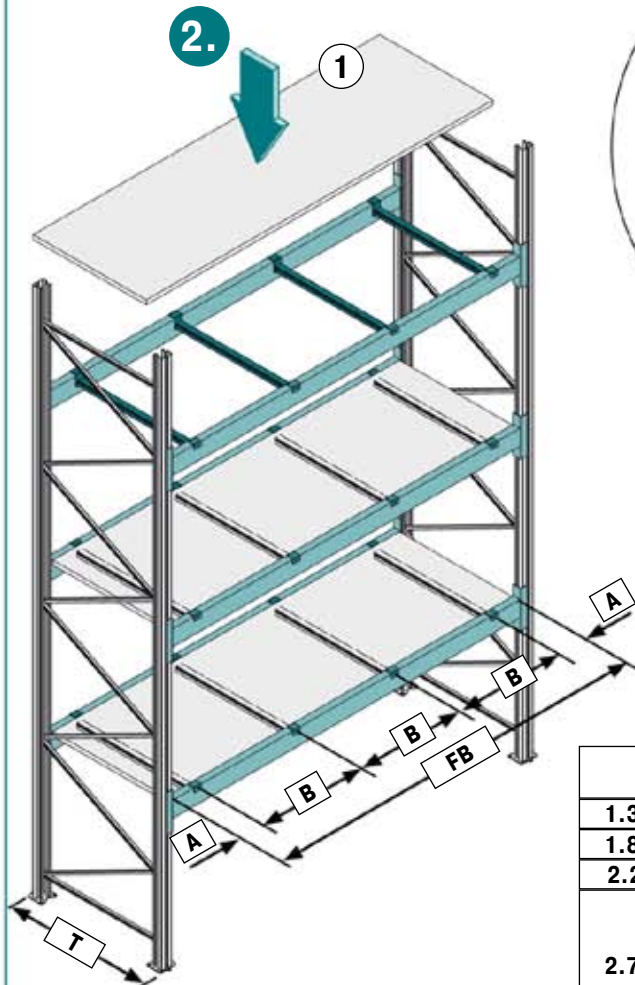
| T (mm) | FB (mm) | 1      | 2 | 3 | A (mm) | B (mm) | C=                           |
|--------|---------|--------|---|---|--------|--------|------------------------------|
| 600    | 1.350   | PT 67L | - | 3 | 72     | 600    | $FB - (2 \times A + \sum B)$ |
|        | 1.800   |        | - | 4 |        | 550    |                              |
|        | 2.200   |        | 1 | 5 |        | 550    |                              |
|        | 2.700   |        | 1 | 5 |        | 650    |                              |
|        | 2.700   | PT 69L |   | 7 |        | 450    |                              |
| 800    | 1.350   | PT 67L | - | 3 | 72     | 600    | $FB - (2 \times A + \sum B)$ |
|        | 1.800   |        | - | 4 |        | 550    |                              |
|        | 2.200   |        | 1 | 5 |        | 550    |                              |
|        | 2.700   |        | 1 | 5 |        | 650    |                              |
|        | 2.700   | PT 69L |   | 7 |        | 450    |                              |
| 1.100  | 1.350   | PT 67L | - | 4 | 72     | 400    | $FB - (2 \times A + \sum B)$ |
|        | 1.800   |        | - | 5 |        | 550    |                              |
|        | 2.200   |        | 1 | 5 |        | 550    |                              |
|        | 2.700   |        | 1 | 5 |        | 650    |                              |
|        | 2.700   | PT 69L |   | 7 |        | 450    |                              |



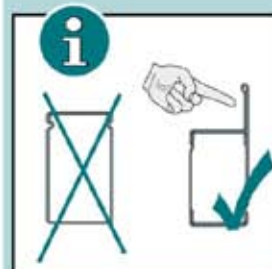
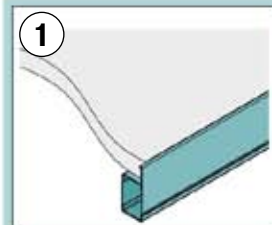
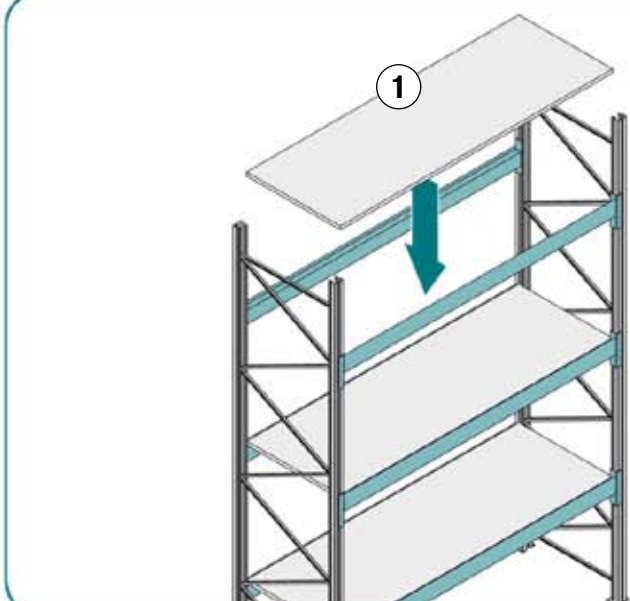
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 mm



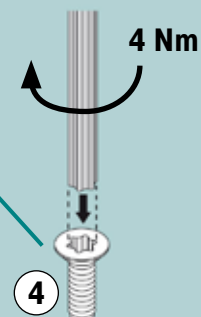
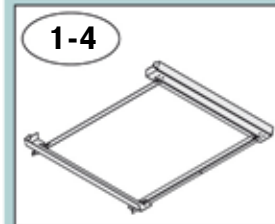
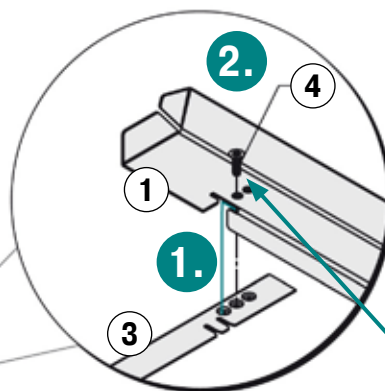
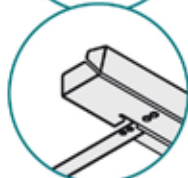
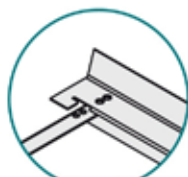
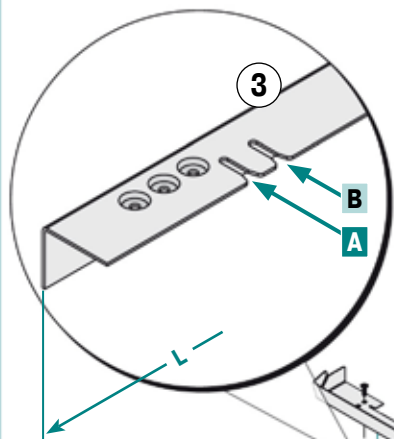
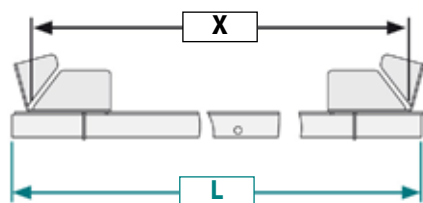




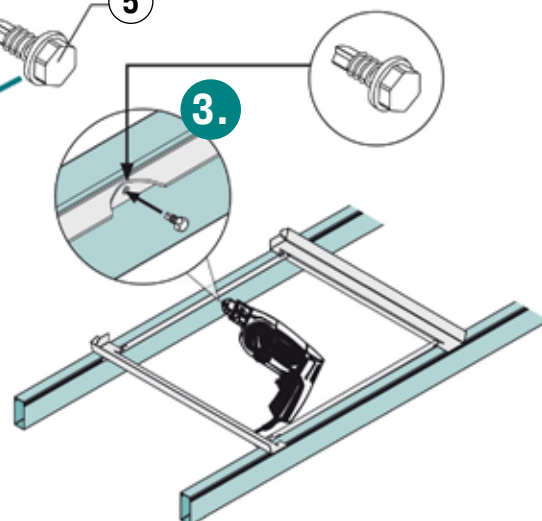
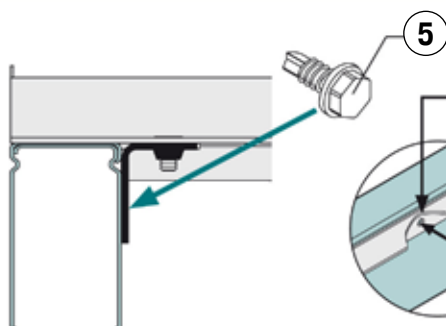
|          |                                                                                    | <div>2</div>  |             |       |        |
|----------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------|-------|--------|
| FB       |  | T= 800 mm                                                                                         | T= 1.100 mm | A     | B      |
| 1.350 mm | PT 95L                                                                             | 3x                                                                                                |             | ~ 225 | 450 mm |
| 1.800 mm | PT 95L                                                                             | 3x                                                                                                |             |       | 675 mm |
| 2.200mm  | PT 95L                                                                             | 4x                                                                                                |             |       | 583 mm |
| 2.700 mm | PT 95L                                                                             | 4x                                                                                                |             |       | 750 mm |
|          | PT 110L                                                                            | 4x                                                                                                |             |       | 562 mm |
|          | PT 120M                                                                            | 5x                                                                                                | -           |       | 750 mm |
|          | PT 120M                                                                            | -                                                                                                 | 4x          |       | 712 mm |
|          | PT 150M                                                                            | 5x                                                                                                |             |       | 787 mm |
| 3.300 mm | PT 120M                                                                            | 5x                                                                                                |             |       |        |
|          | PT 150M                                                                            |                                                                                                   |             |       |        |
| 3.600 mm | PT 130M                                                                            | 5x                                                                                                |             |       |        |
|          | PT 150M                                                                            |                                                                                                   |             |       |        |
|          | PT 170S                                                                            |                                                                                                   |             |       |        |



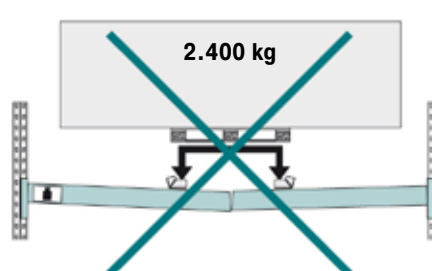
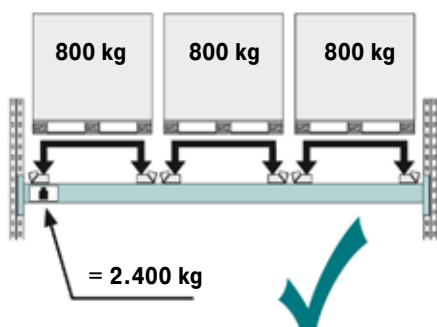
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 mm



| L        | A        | A-B      | B        |
|----------|----------|----------|----------|
|          | X=       | X=       | X=       |
| 890 mm   | 840 mm   | 822 mm   | 804 mm   |
| 1.090 mm | 1.040 mm | 1.022 mm | 1.004 mm |
| 1.340 mm | 1.238 mm | 1.220 mm | 1.202 mm |

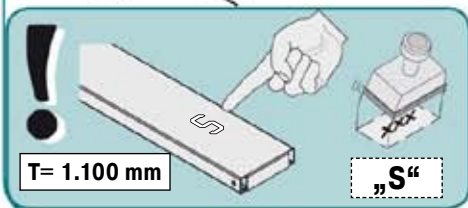
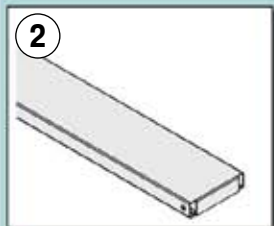
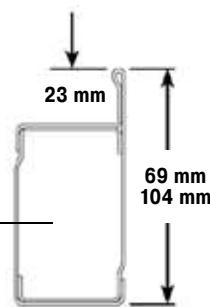
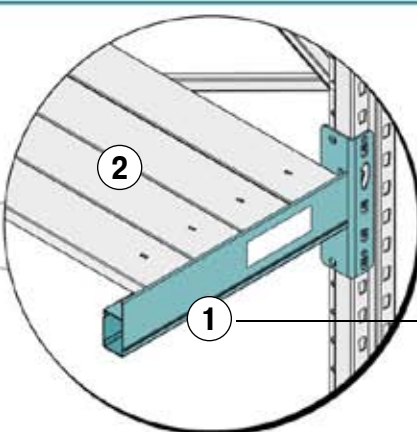
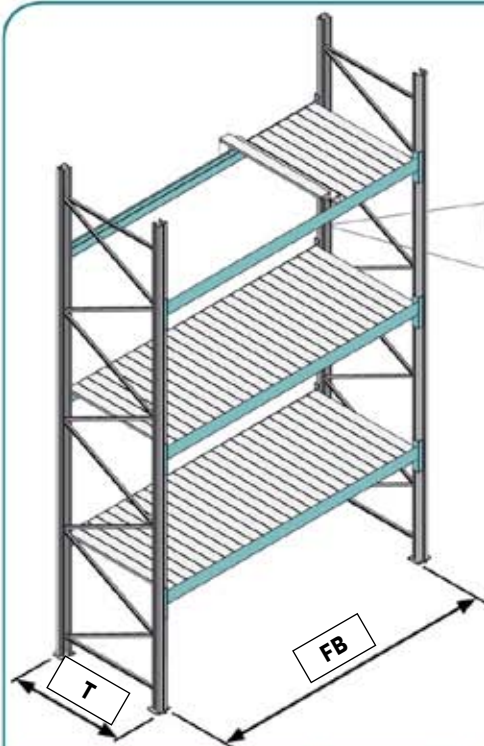


| 1 |  |                           |     | 1x |
|---|--|---------------------------|-----|----|
| 2 |  |                           |     | 1x |
| 3 |  |                           |     | 2x |
| 4 |  | MT5 x 16 mm<br>DIN 7500   | 8.8 | 4x |
| 5 |  | Ø 6,3 x 19 mm<br>DIN 7504 |     | 1x |

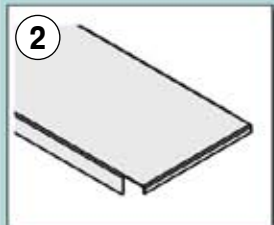
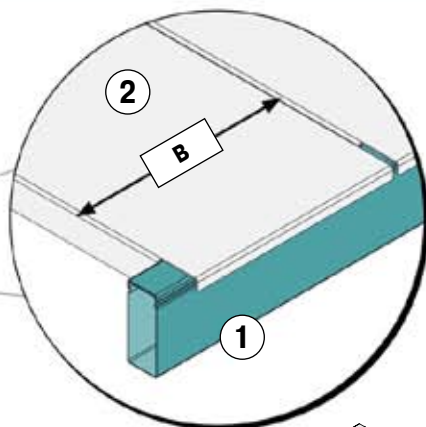
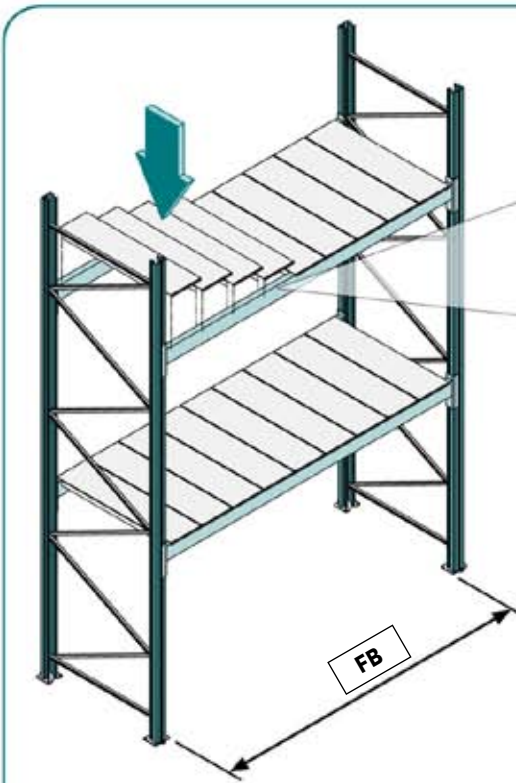
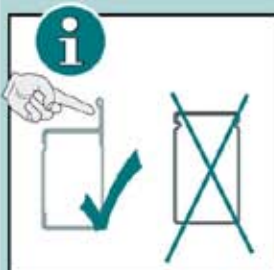


max. 1.000 kg





| FB       | T            |   | 99 mm | 73 mm |
|----------|--------------|---|-------|-------|
| 1.350 mm | 600 / 800 mm | - | 12    | 2     |
|          | 1.100 mm     | S |       |       |
| 1.800 mm | 600 / 800 mm | - | 18    | -     |
|          | 1.100 mm     | S |       |       |
| 2.200 mm | 600 / 800 mm | - | 22    | -     |
|          | 1.100 mm     | S |       |       |
| 2.700 mm | 600 / 800 mm | - | 27    | -     |
|          | 1.100 mm     | S |       |       |
| 3.300 mm | 600 / 800 mm | - | 33    | -     |
|          | 1.100 mm     | S |       |       |
| 3.600 mm | 600 / 800 mm | - | 36    | -     |
|          | 1.100 mm     | S |       |       |

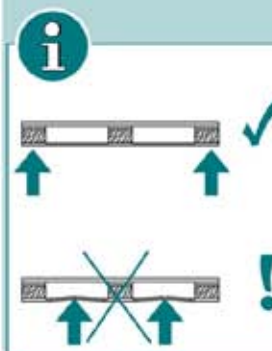
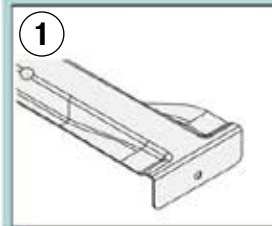
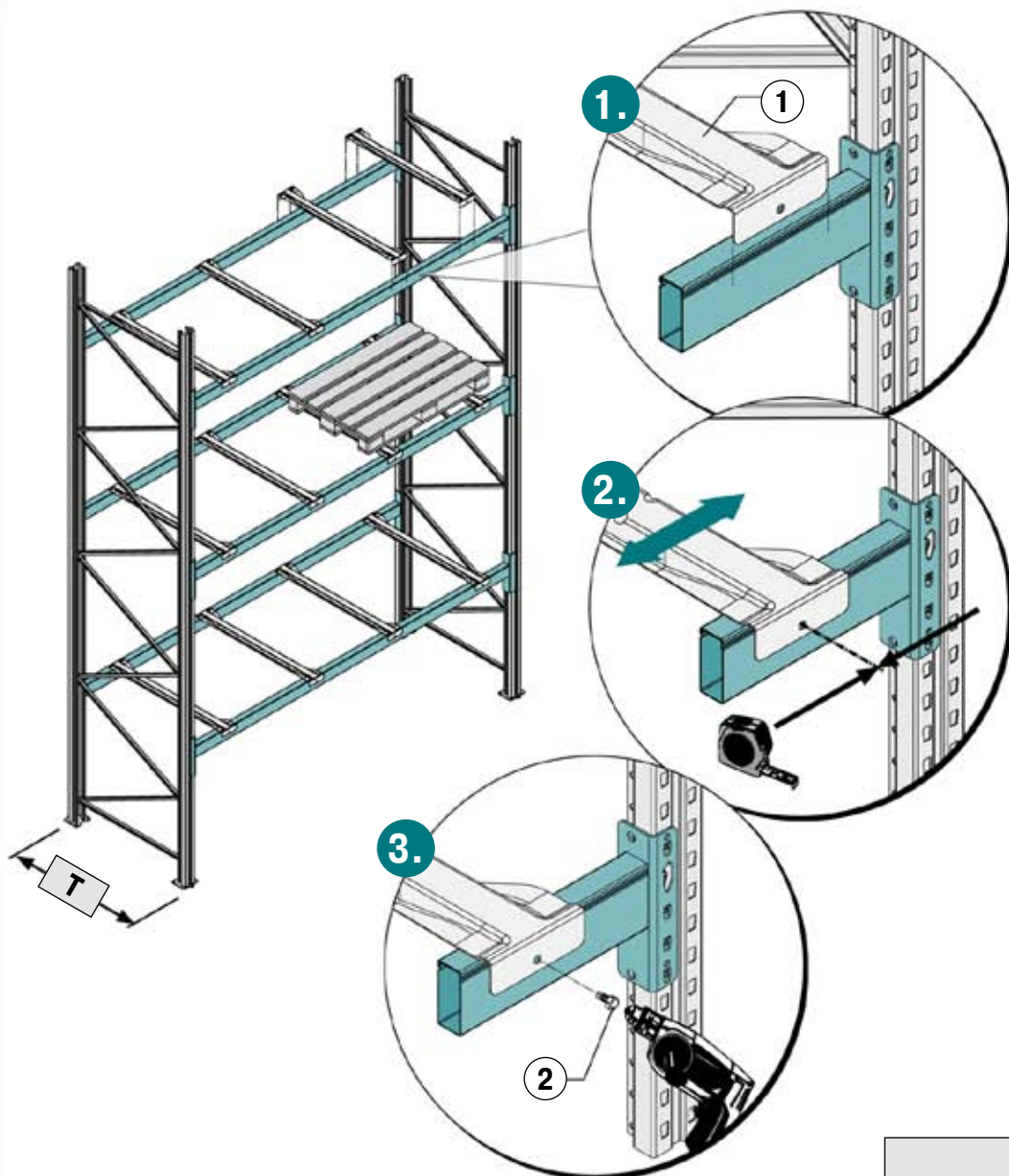


| FB       | B= 297 mm | B= 149,5 mm | B= 105 mm |
|----------|-----------|-------------|-----------|
| 1.350 mm | 4         | 1           | -         |
| 1.800 mm | 6         | -           | -         |
| 2.200 mm | 7         | -           | 1         |
| 2.700 mm | 9         | -           | -         |
| 3.300 mm | 11        | -           | -         |
| 3.600 mm | 12        | -           | -         |

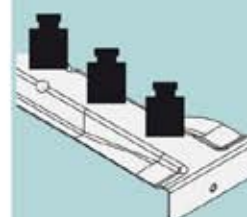
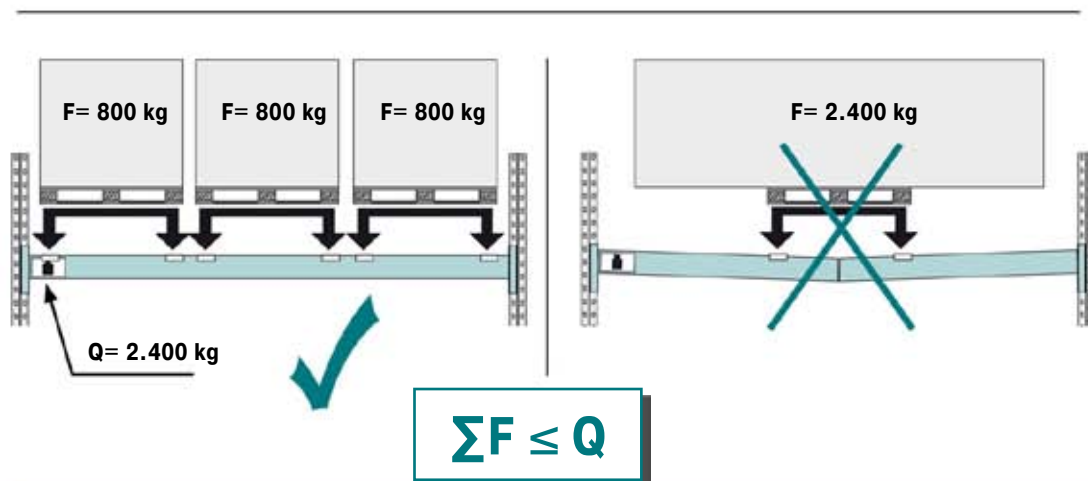


0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 mm



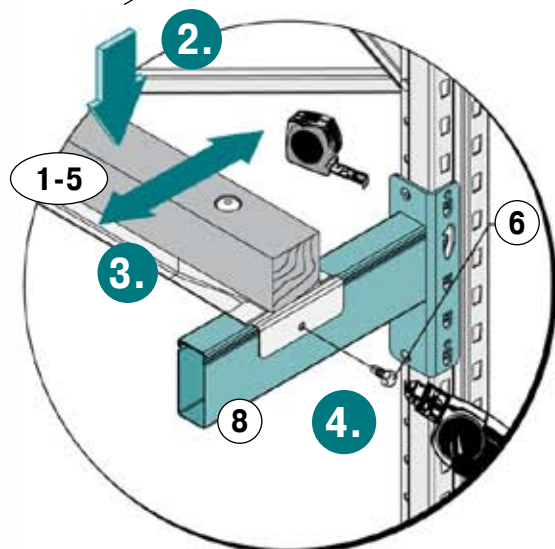
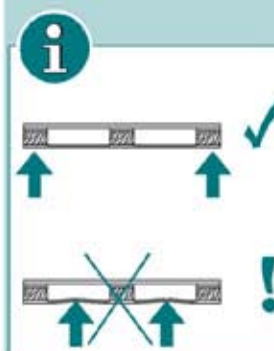
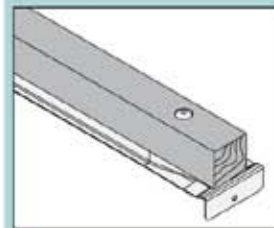
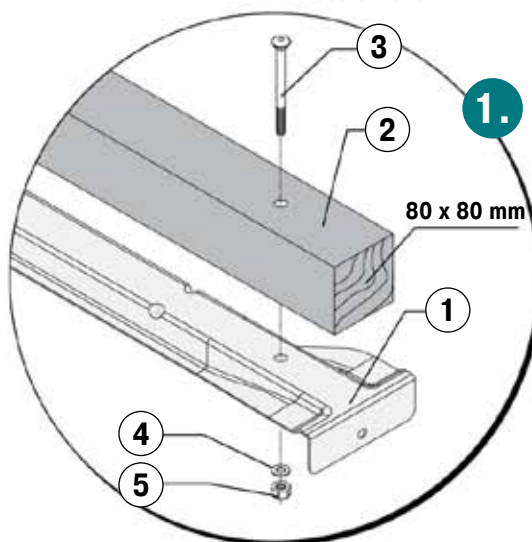
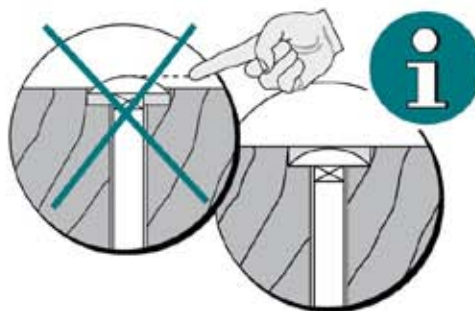
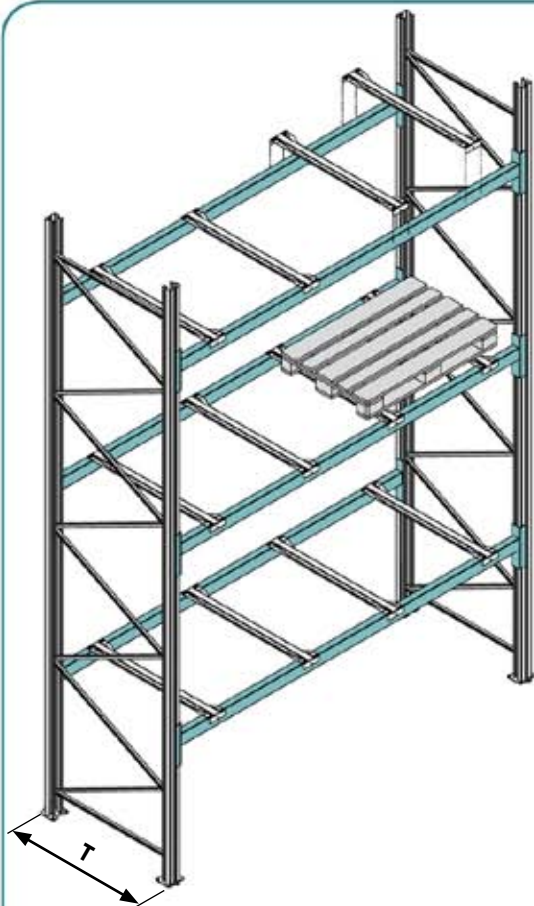


| 1 |  |                          | 1x |
|---|--|--------------------------|----|
| 2 |  | Ø6,3 x 19 mm<br>DIN 7504 | 1x |

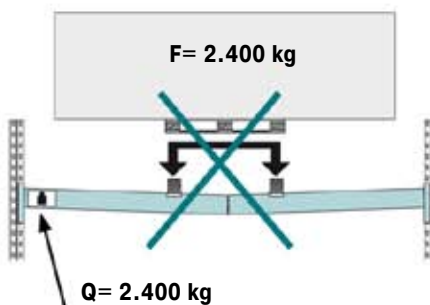
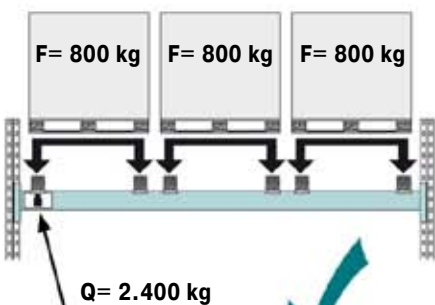


| T        | max.   |
|----------|--------|
| 800 mm   | 640 kg |
| 1.100 mm | 440 kg |

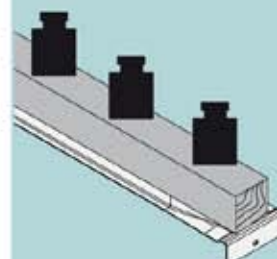




| 1 |  |                          |     | 1x |
|---|--|--------------------------|-----|----|
| 2 |  | 80 x 80 mm               |     | 1x |
| 3 |  | M10 x 100 mm<br>DIN 603  | 4.6 | 2x |
| 4 |  | Ø10,5<br>DIN 125         |     | 2x |
| 5 |  | M10<br>DIN 934           | 8   | 2x |
| 6 |  | Ø6,3 x 19 mm<br>DIN 7504 |     | 1x |



$$\Sigma F \leq Q$$

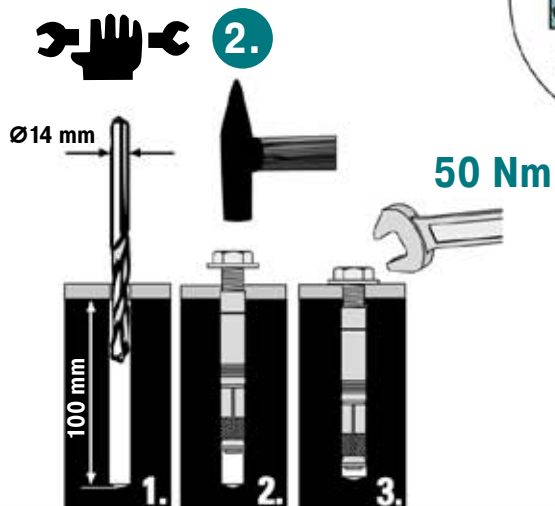
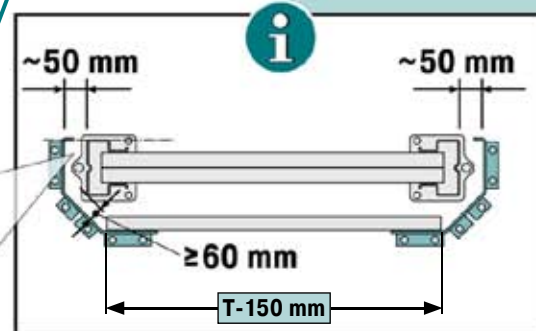
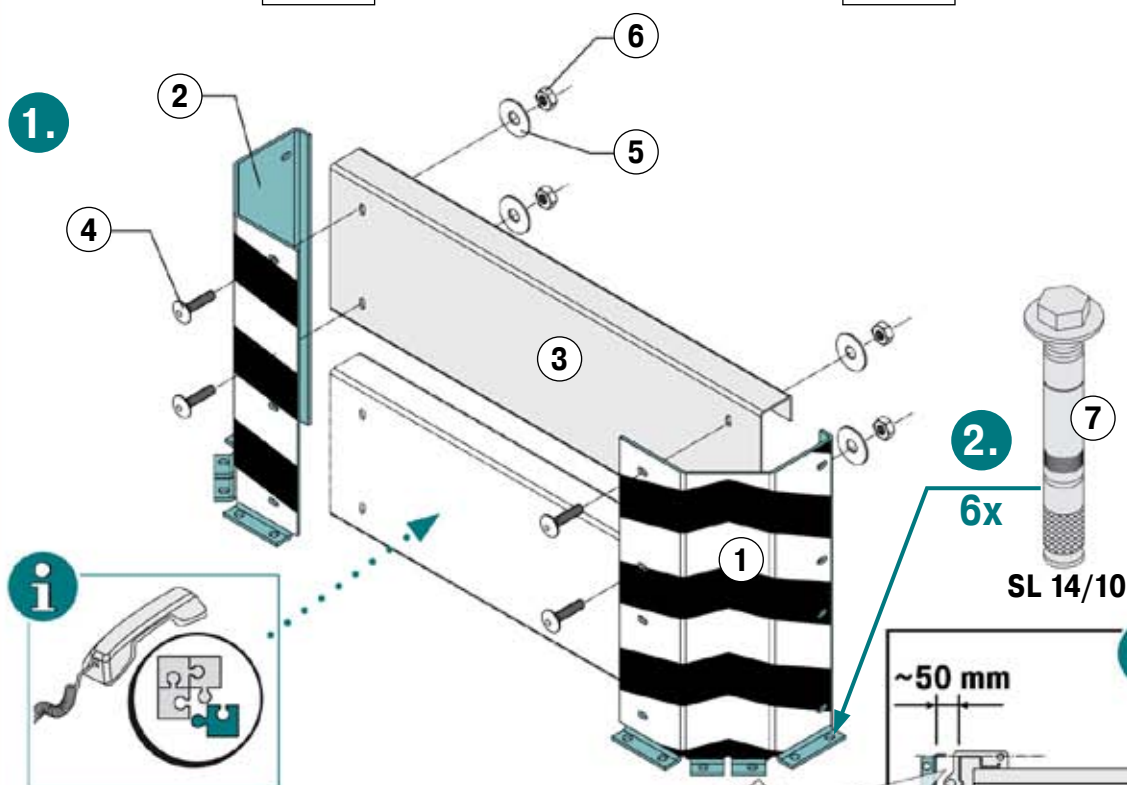
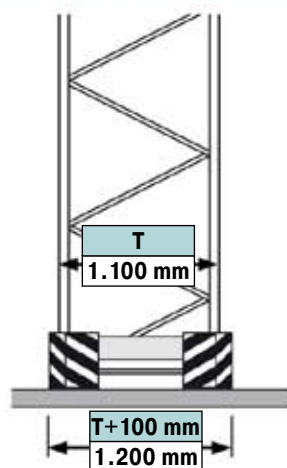
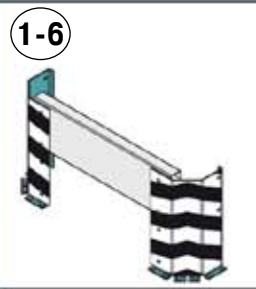


| T        |          |
|----------|----------|
| 800 mm   | 1.250 kg |
| 1.100 mm | 1.250 kg |



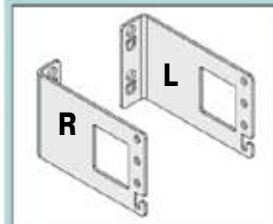
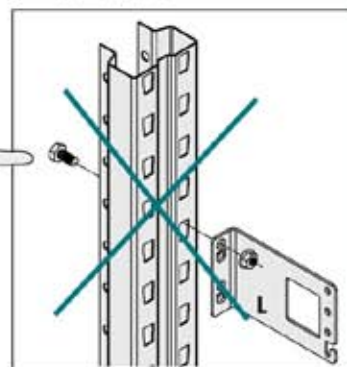
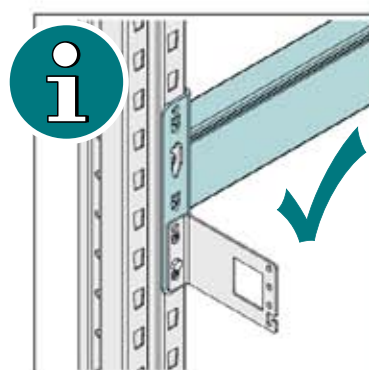
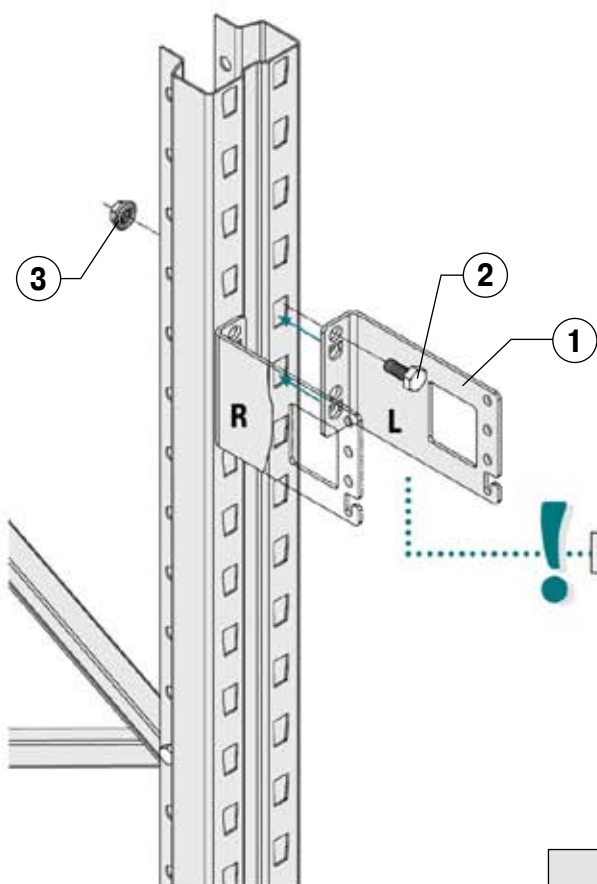
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 mm



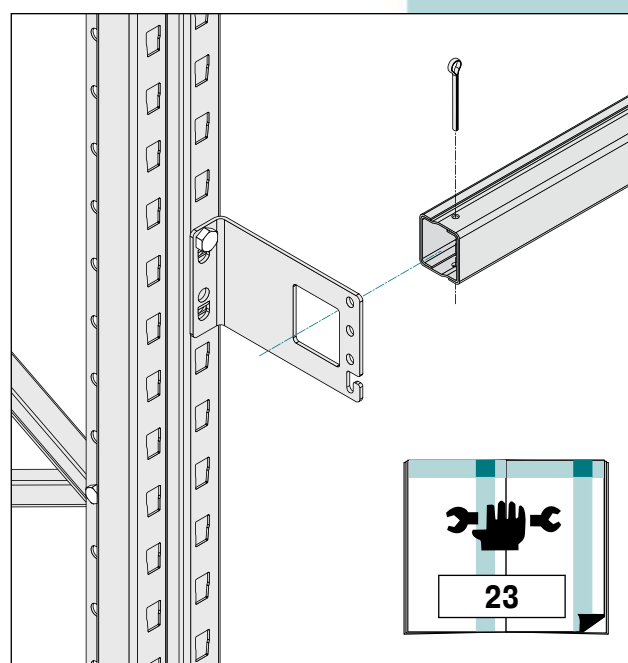
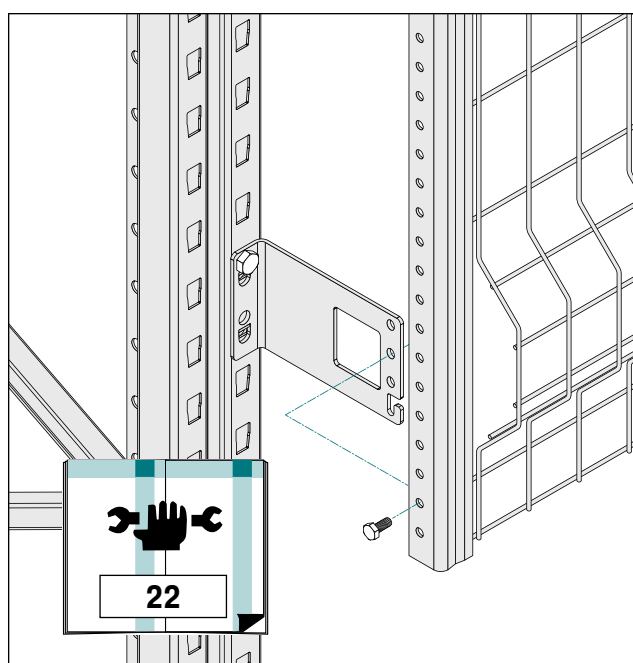


|                                                                                       |                                                                                       |                               |     |         |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------|-----|---------|
|  |                                                                                       |                               |     |         |
| 1                                                                                     |                                                                                       |                               |     | 1x      |
| 2                                                                                     |                                                                                       |                               |     | 1x      |
| 3                                                                                     |                                                                                       |                               |     | 1x (2x) |
| 4                                                                                     |  | <b>M10 x 20 mm</b><br>DIN 603 | 4.6 | 4x (8x) |
| 5                                                                                     |  | <b>Ø10,5</b><br>DIN 9021      |     | 4x (8x) |
| 6                                                                                     |  | <b>M10</b><br>DIN 934         | 8   | 4x (8x) |
| 7                                                                                     |                                                                                       | <b>SL 14/10</b>               |     | 12x     |

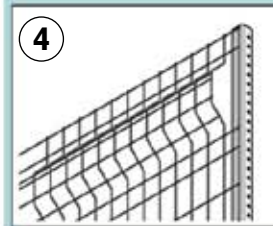
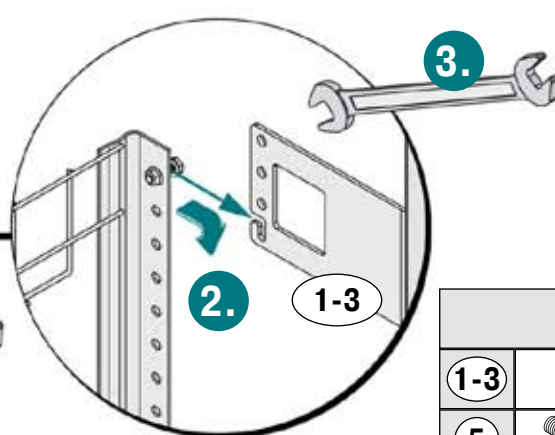
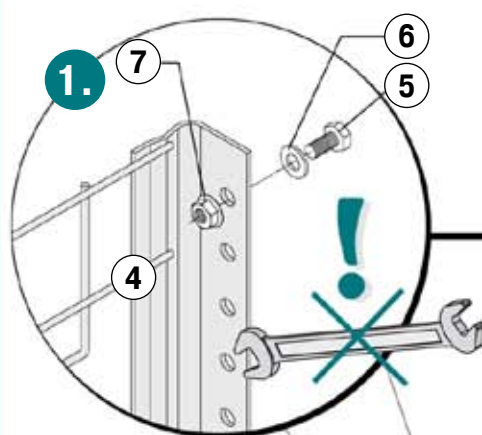


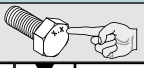


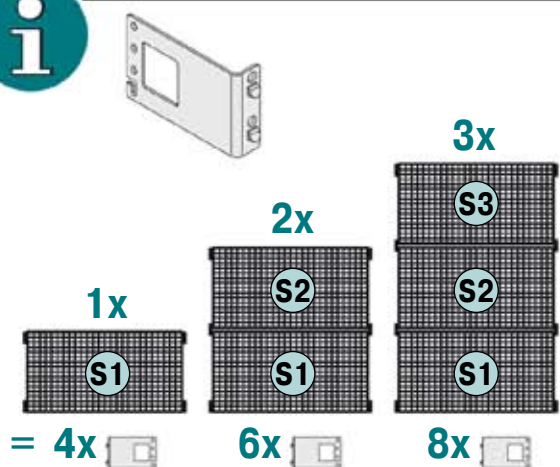
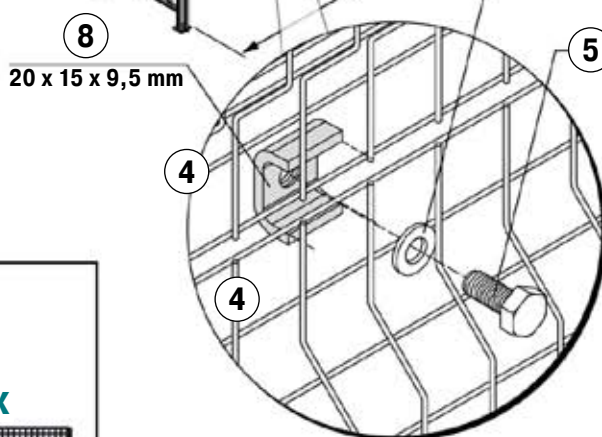
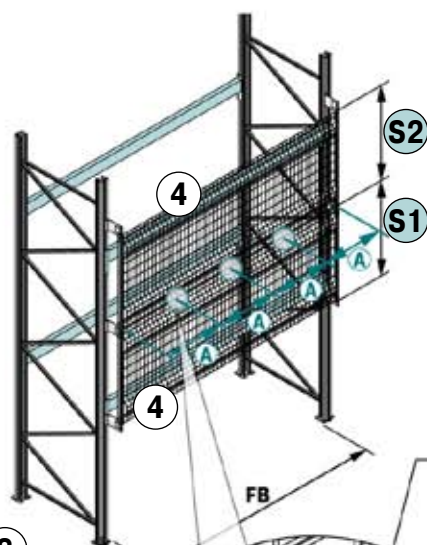
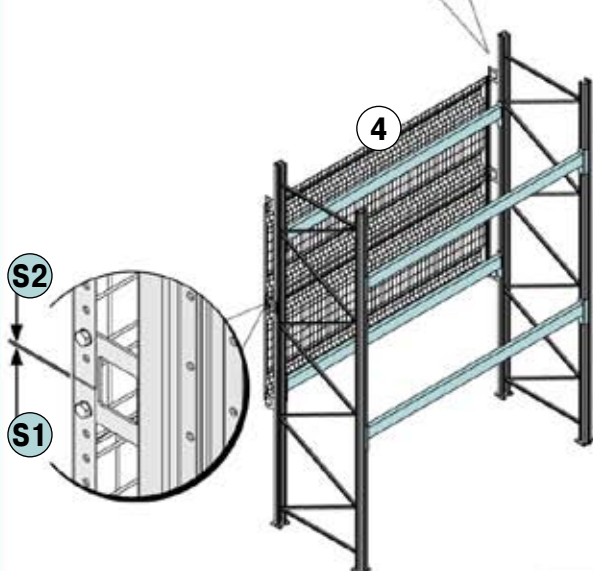
|  |                                                                                     |                        |     |    |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------|-----|----|
| 1                                                                                     |                                                                                     |                        |     | 1x |
| 2                                                                                     |  | M10 x 20 mm<br>DIN 933 | 8.8 | 1x |
| 3                                                                                     |  | M10                    | 8   | 1x |



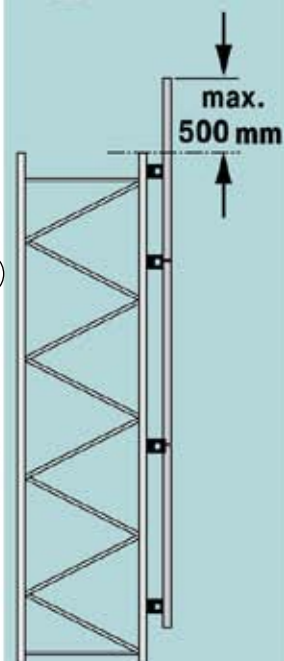
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 mm

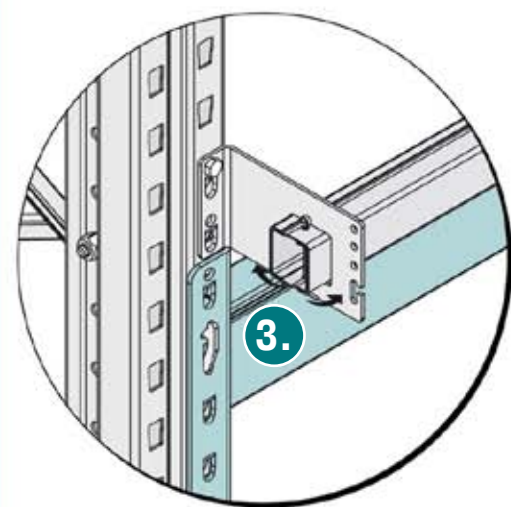
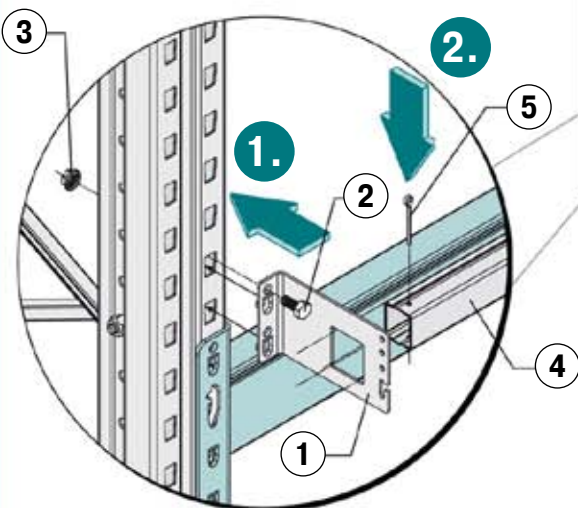
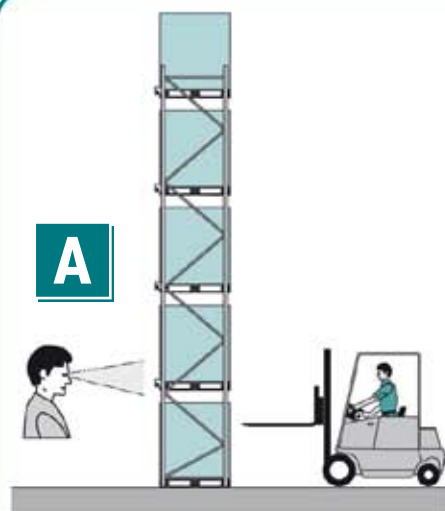


|  |                                                                                     |                       |     |    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|-----|----|
| 1-3                                                                                 |                                                                                     |                       |     | 1x |
| 5                                                                                   |  | M6 x 16 mm<br>DIN 933 | 8.8 | 1x |
| 6                                                                                   |  | Ø6,4 mm<br>DIN 125-A  |     | 2x |
| 7                                                                                   |  | M6                    | 8   | 1x |

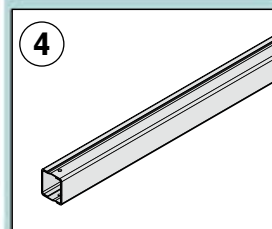
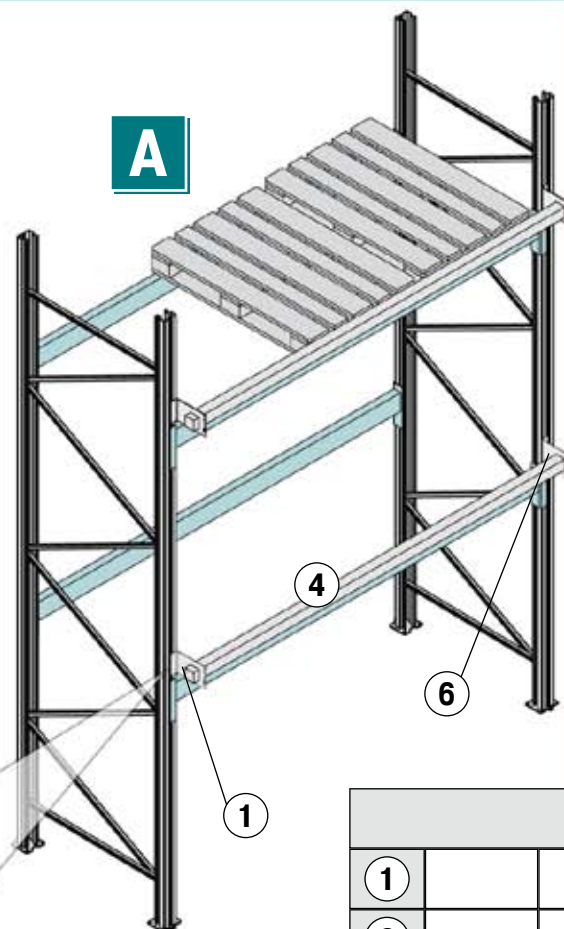


| FB       | 8  | A           |
|----------|----|-------------|
| 1.350 mm | 2x | 3x (450 mm) |
| 1.800 mm | 2x | 3x (600 mm) |
| 2.200 mm | 3x | 4x (550 mm) |
| 2.700 mm | 3x | 4x (675 mm) |
| 3.300 mm | 4x | 5x (550 mm) |
| 3.600 mm | 5x | 6x (600 mm) |

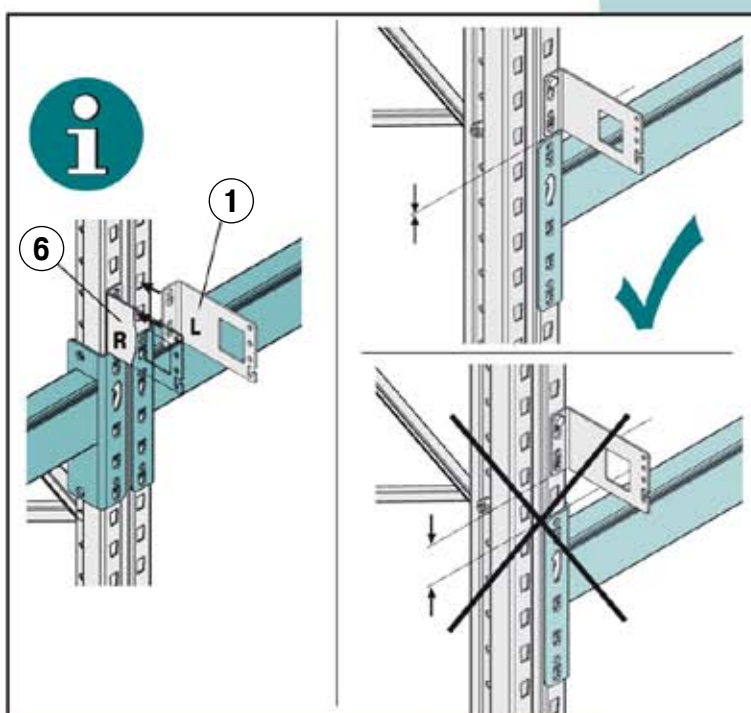




A

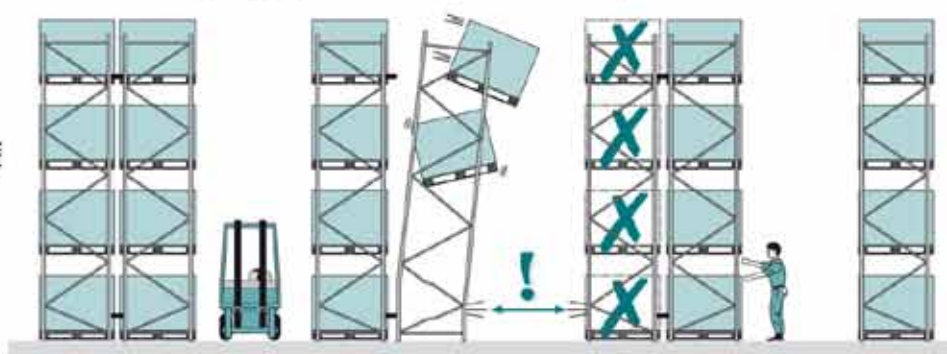
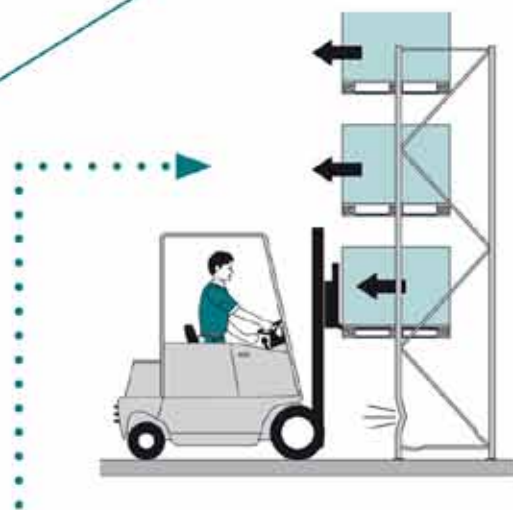
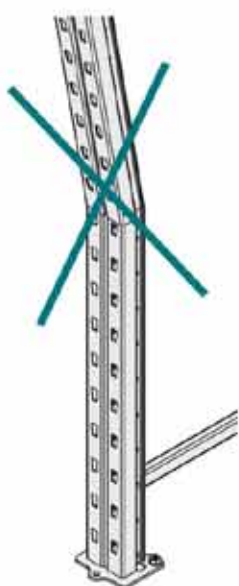
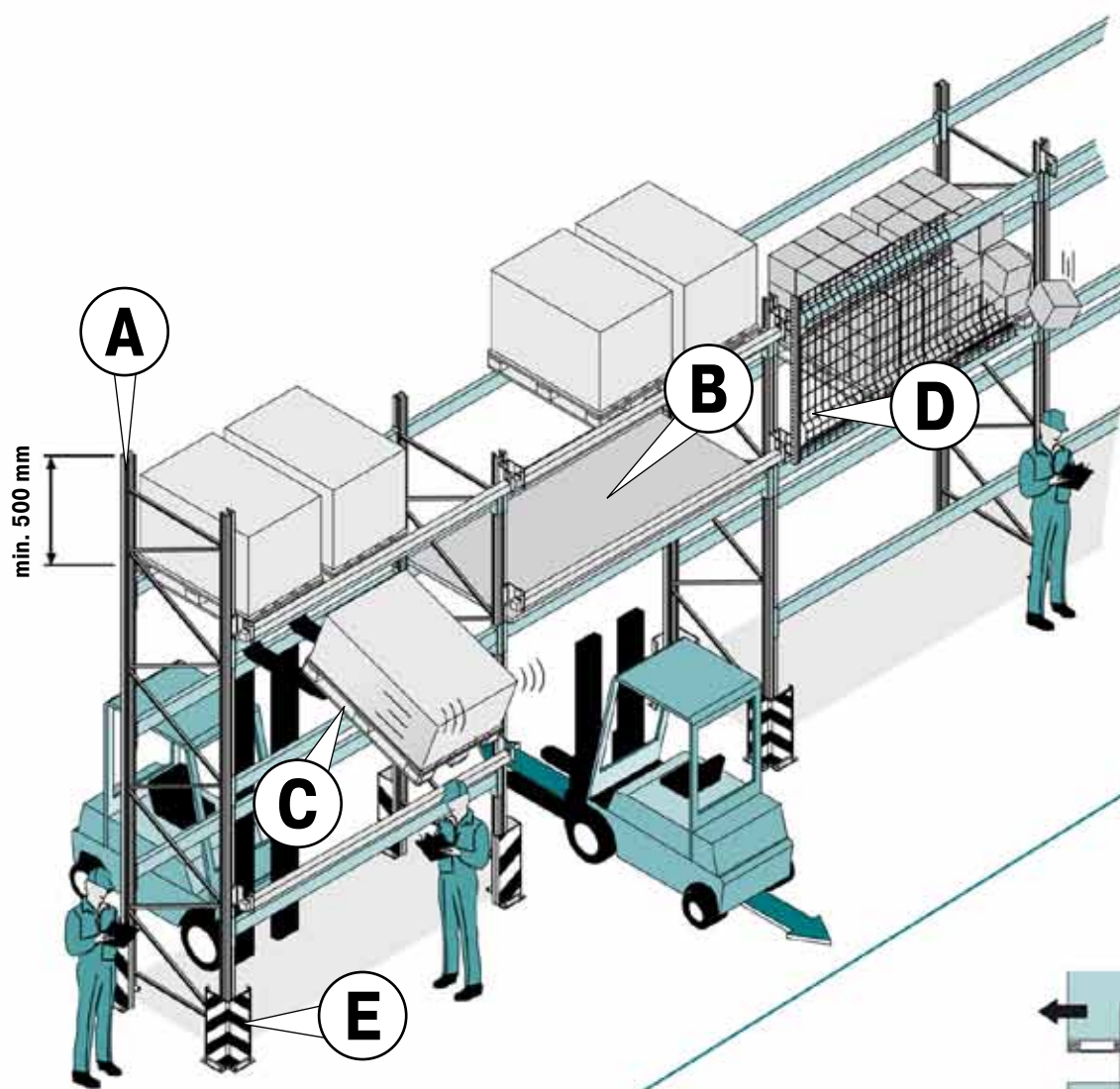


| 1 |  |                        |     | 1x |
|---|--|------------------------|-----|----|
| 6 |  |                        |     | 1x |
| 2 |  | M10 x 20 mm<br>DIN 933 | 8.8 | 2x |
| 3 |  | M10                    | 8   | 2x |
| 4 |  | 46 x 46 mm             |     | 1x |
| 5 |  | Ø4,0 x 71 mm           |     | 2x |



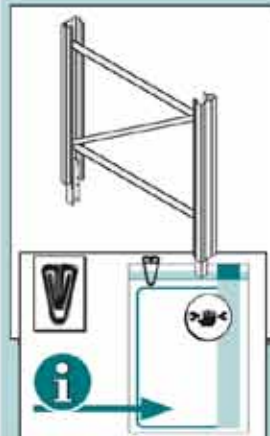
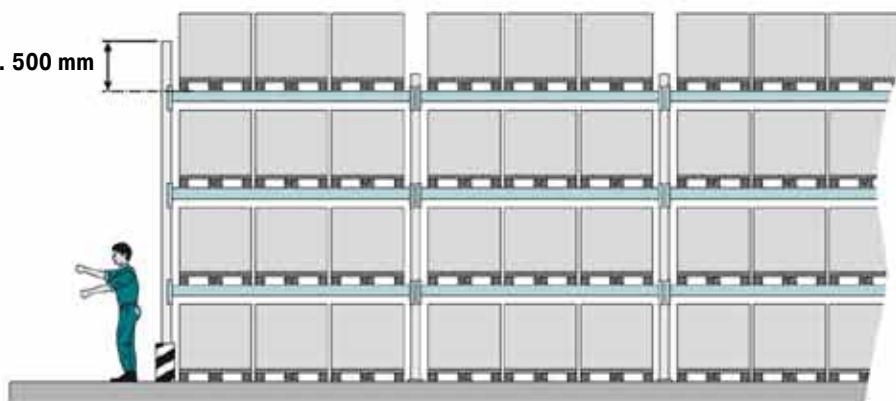
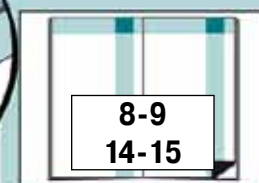
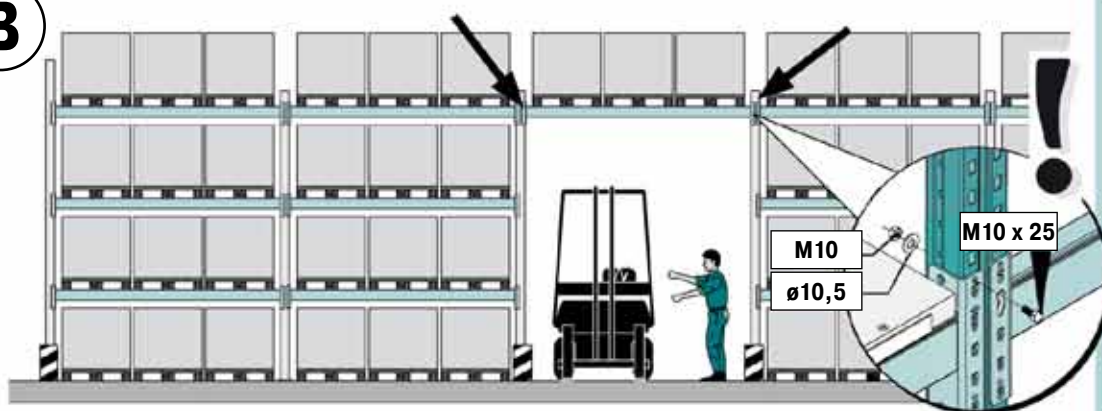
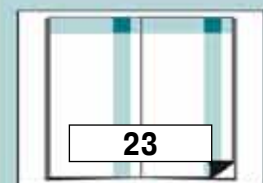
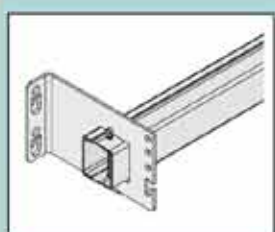
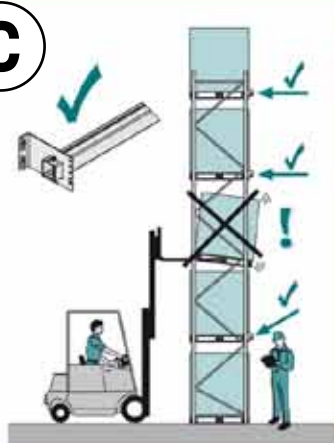
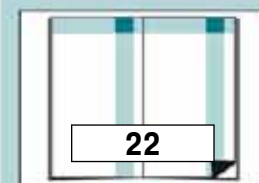
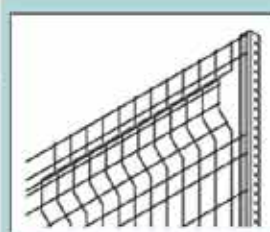
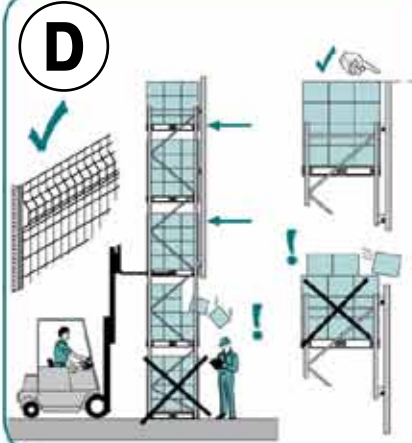
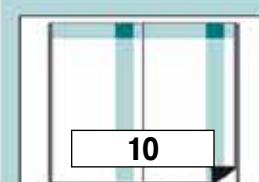
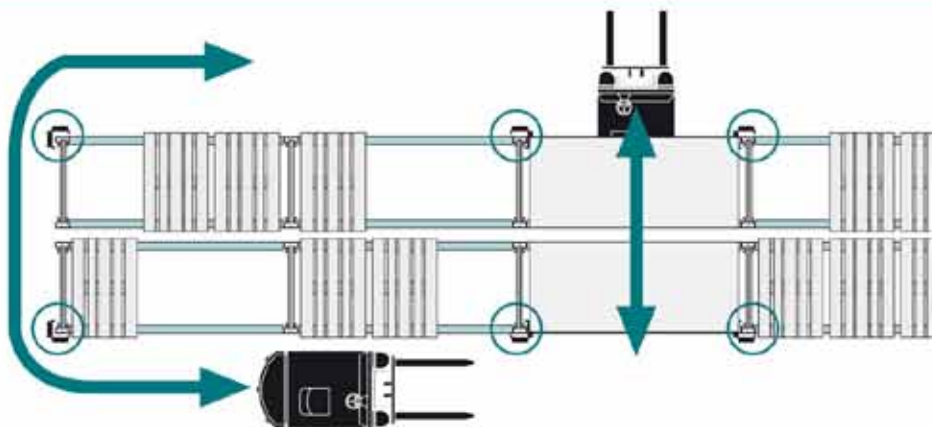
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 mm





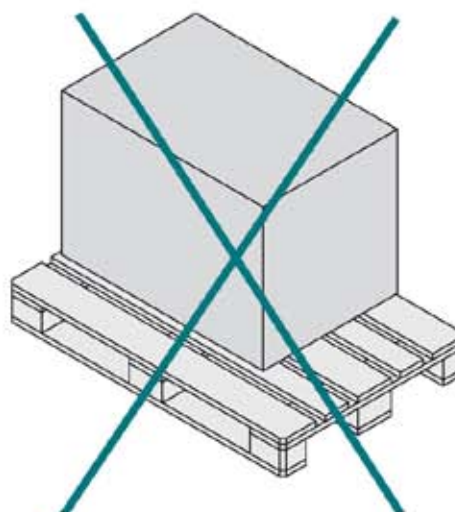
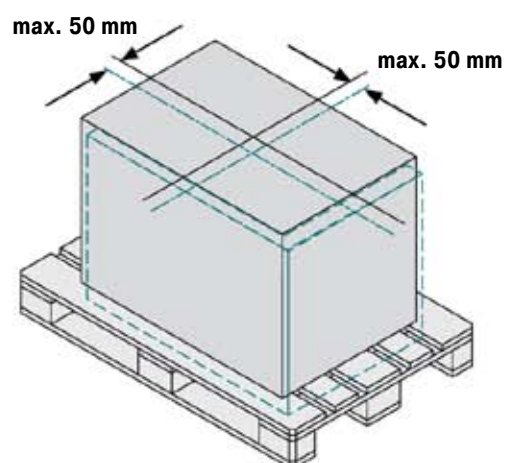
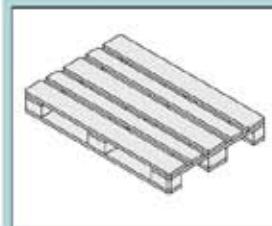
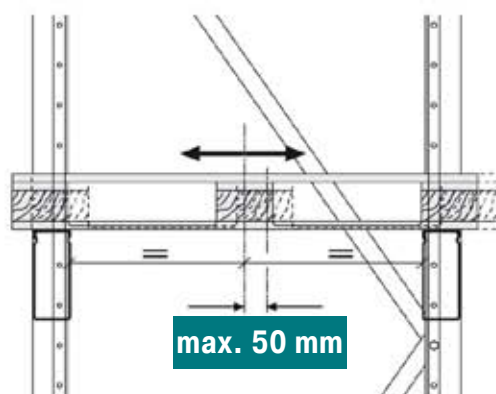
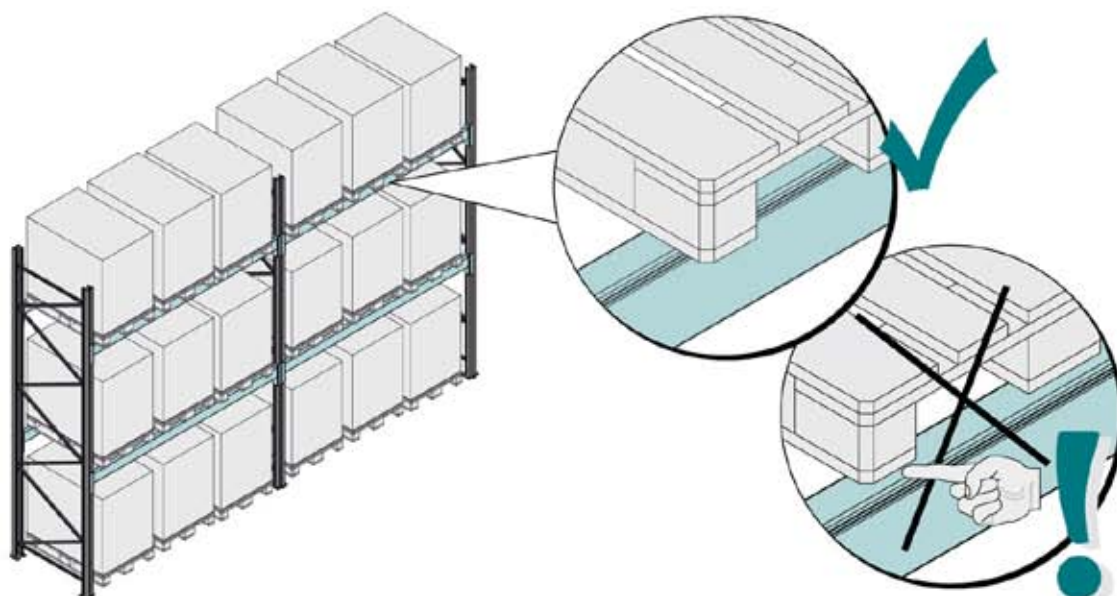
**A**

min. 500 mm

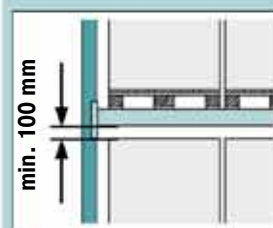
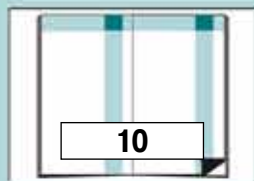
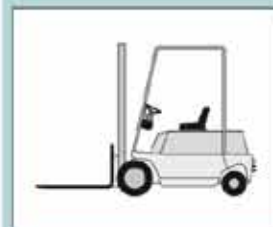
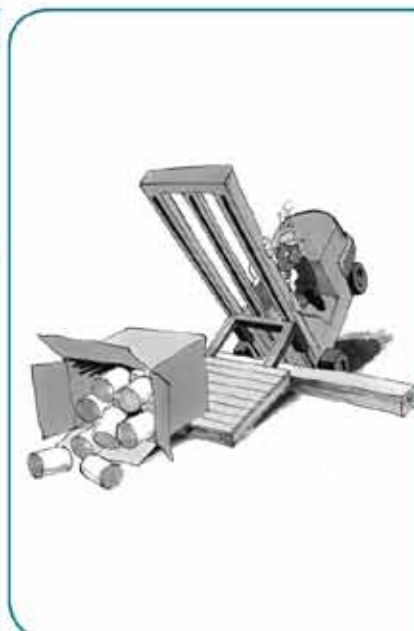
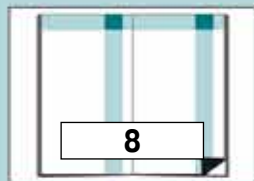
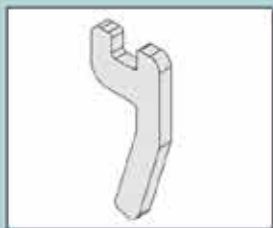
**B****C****D****E**

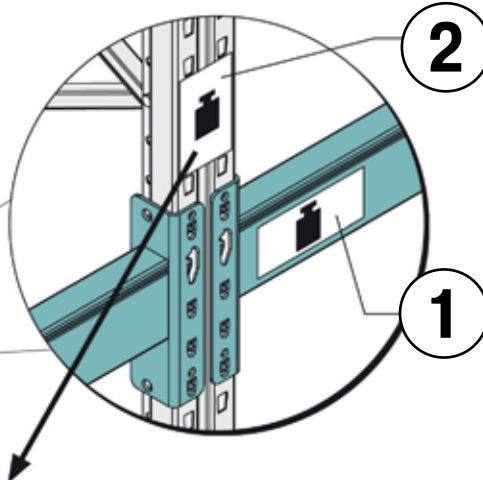
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 mm



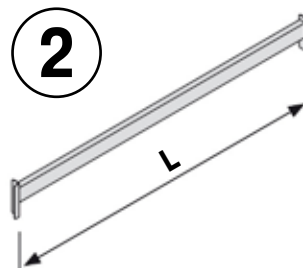






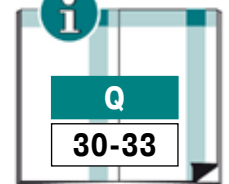


| BITO            |           | P3 |  |
|-----------------|-----------|----|--|
| DIN EN ISO 9001 |           |    |  |
|                 |           |    |  |
| FA              | Qmax.*    |    |  |
| 1.000 mm        | 12.200 kg |    |  |
| 1.250 mm        | 11.840 kg |    |  |
| 1.500 mm        | 10.280 kg |    |  |
| 1.750 mm        | 8.880 kg  |    |  |
| 2.000 mm        | 7.520 kg  |    |  |
| 2.500 mm        | 5.400 kg  |    |  |
| mm              | kg        |    |  |

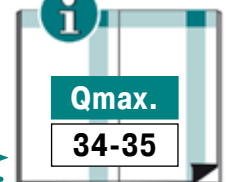


= PT 95L  
L = 3.600 mm

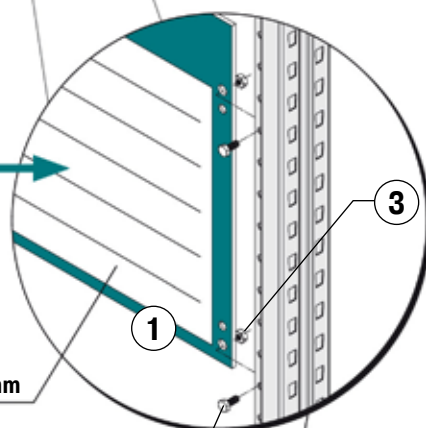
1



2

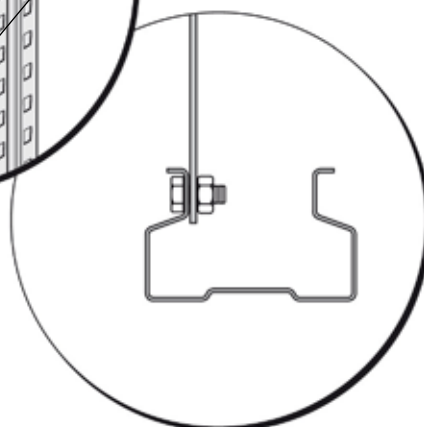


472 x 380 mm



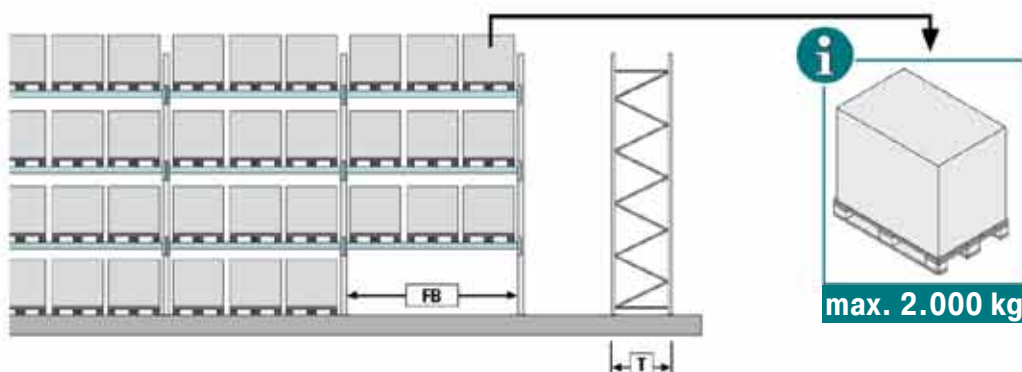
2

3



| 1 |  | 472 x 380 mm           |     | 1x |
|---|--|------------------------|-----|----|
| 2 |  | M10 x 20 mm<br>DIN 933 | 8.8 | 2x |
| 3 |  | M10<br>DIN 934         | 8   | 2x |

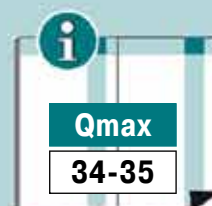




**Q**

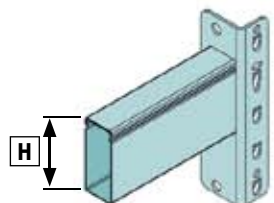
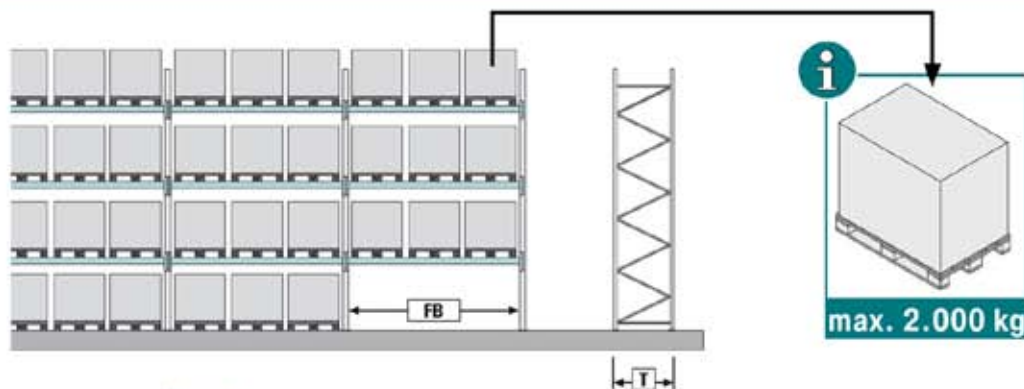


$$\Sigma Q \leq Q_{max.}$$

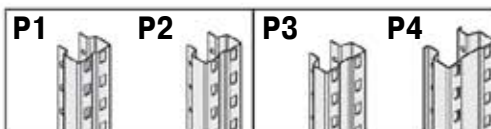


0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 mm





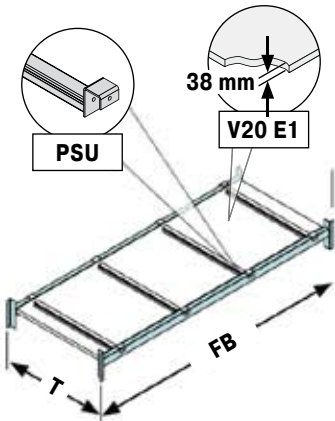
**PT**

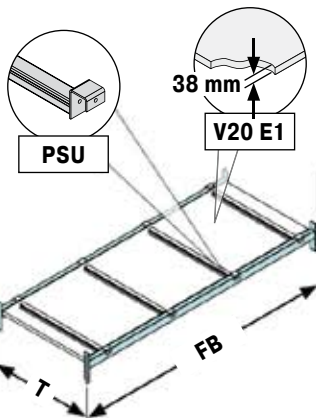


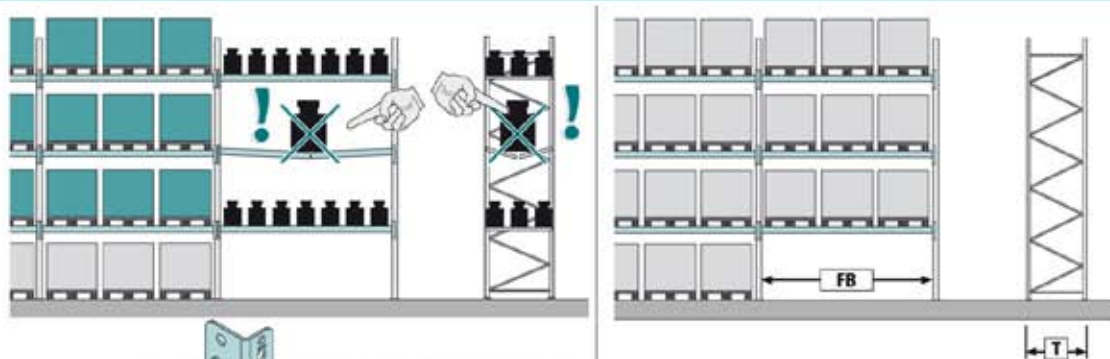
| FB= (mm) | PT      | H= (mm) | Q= max. (kg) |       |
|----------|---------|---------|--------------|-------|
|          |         |         | P1           | P2    |
| 1.350    | PT 95L  | 95      | 2.000        | 2.000 |
| 1.500    | PT 95L  | 95      | 2.000        | 2.000 |
| 1.800    | PT 95L  | 95      | 2.500        | 2.500 |
| 2.200    | PT 95L  | 95      | 2.100        | 2.250 |
| 2.700    | PT 95L  | 95      | 1.800        | 1.900 |
|          | PT 110L | 110     | 2.400*       | 2.400 |
|          | PT 120M | 120     | 3.050        | 3.175 |
|          | PT 150M | 150     | 4.250        | 4.350 |
| 3.300    | PT 120M | 120     | 2.350        | 2.500 |
|          | PT 150M | 150     | 3.500        | 3.650 |
| 3.600    | PT 130M | 130     | 2.400        | 2.500 |
|          | PT 150M | 150     | 3.200        | 3.350 |
|          | PT 170S | 170     | 4.000        | 4.150 |

\*=  
>1.500 mm  
>1.500 mm

max. 2.400 kg  
max. 2.300 kg

| T= 800, 1.100 (mm)                                                                  |       | FB= (mm) |  | H= (mm) | T= 800 mm<br>Q= max. (kg) |  PSU | T= 1.100 mm<br>Q= max. (kg) |  PSU |
|-------------------------------------------------------------------------------------|-------|----------|-------------------------------------------------------------------------------------|---------|---------------------------|-------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------|
|  | 1.350 | PT 95L   | 95                                                                                  | 1.500   | 3                         | 1.500                                                                                     | 3                           |                                                                                           |
|                                                                                     | 1.800 | PT 95L   | 95                                                                                  | 1.800   | 3                         | 2.200                                                                                     | 3                           |                                                                                           |
|                                                                                     | 2.200 | PT 95L   | 95                                                                                  | 2.100   | 4                         | 2.100                                                                                     | 4                           |                                                                                           |
|                                                                                     | 2.700 | PT 95L   | 95                                                                                  | 1.800   | 4                         | 1.800                                                                                     | 4                           |                                                                                           |
|                                                                                     |       | PT 110L  | 110                                                                                 | 2.200   | 4                         | 2.400                                                                                     | 4                           |                                                                                           |
|                                                                                     |       | PT 120M  | 120                                                                                 | 3.000   | 5                         | 3.000                                                                                     | 4                           |                                                                                           |
|                                                                                     |       | PT 150M  | 150                                                                                 | 3.000   | 5                         | 4.000                                                                                     | 5                           |                                                                                           |
|                                                                                     | 3.300 | PT 120M  | 120                                                                                 | 2.400   | 5                         | 2.400                                                                                     | 5                           |                                                                                           |
|                                                                                     |       | PT 150M  | 150                                                                                 | 2.800   | 5                         | 3.300                                                                                     | 5                           |                                                                                           |
|                                                                                     | 3.600 | PT 130M  | 130                                                                                 | 2.300   | 5                         | 2.400                                                                                     | 5                           |                                                                                           |
| PT 150M                                                                             |       | 150      | 2.300                                                                               | 5       | 3.250                     | 5                                                                                         |                             |                                                                                           |
| PT 170S                                                                             |       | 170      | 2.300                                                                               | 5       | 3.300                     | 5                                                                                         |                             |                                                                                           |





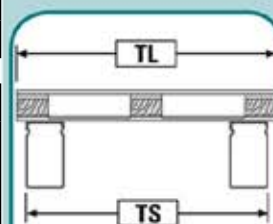
Q

$$\Sigma Q \leq Q_{\max.}$$

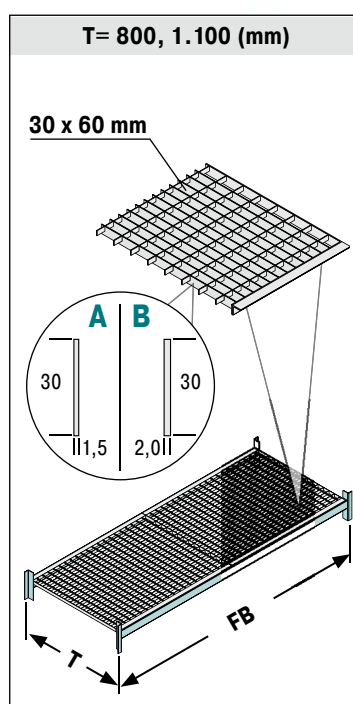
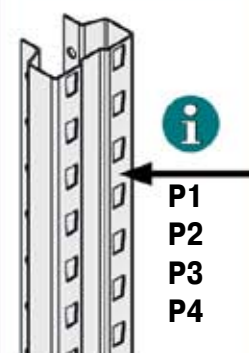


Q<sub>max.</sub>

34-35



$$TL / TS \leq 1,12$$



| T= 800, 1.100 (mm) |         | A 30 x 1,5 mm |              |
|--------------------|---------|---------------|--------------|
| FB= (mm)           | H= (mm) | T= 800        | Q= max. (kg) |
| 1.350              | PT 95L  | 95            | 1.500        |
| 1.800              | PT 95L  | 95            | 2.000        |
| 2.200              | PT 110L | 110           | 2.400        |
| 2.700              | PT 120M | 120           | 3.000        |
| 3.300              | PT 150M | 150           | 3.500        |
| 3.600              | PT 170S | 170           | 4.000        |

| A 30 x 1,5 mm |         | B 30 x 2,0 mm |              |
|---------------|---------|---------------|--------------|
| FB= (mm)      | H= (mm) | T= 1.100      | Q= max. (kg) |
| 1.350         | PT 95L  | 95            | 900          |
| 1.800         | PT 95L  | 95            | 1.200        |
| 2.200         | -       | -             | -            |
| 2.700         | PT 95L  | 95            | 1.800        |
| 3.300         | -       | -             | -            |
| 3.600         | PT 130M | 130           | 2.400        |

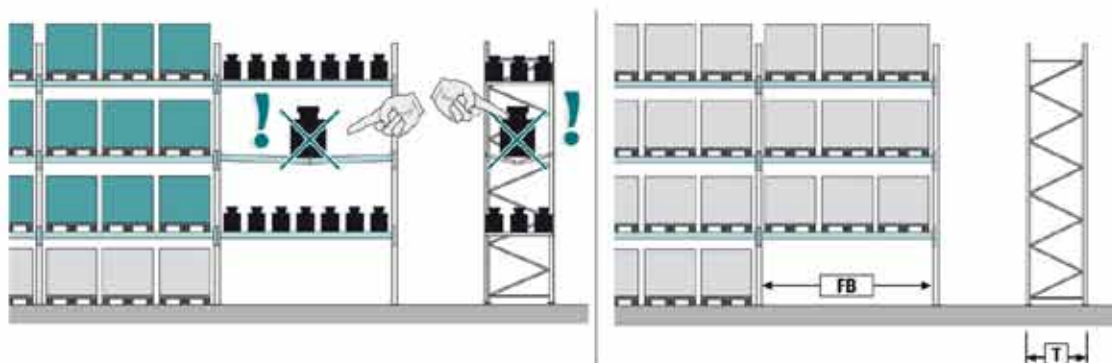
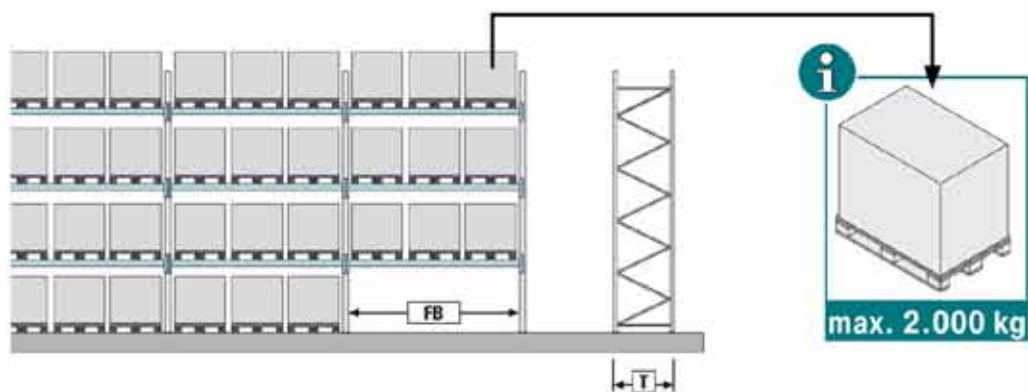
  

| B 30 x 2,0 mm |         | T= 1.100 |              |
|---------------|---------|----------|--------------|
| FB= (mm)      | H= (mm) | T= 1.100 | Q= max. (kg) |
| 1.350         | PT 95L  | 95       | 1.500        |
| 1.800         | PT 95L  | 95       | 2.000        |
| 2.200         | PT 110L | 110      | 2.400        |
| 2.700         | PT 120M | 120      | 3.000        |
| 3.300         | PT 150M | 150      | 3.500        |
| 3.600         | PT 170S | 170      | 4.000        |

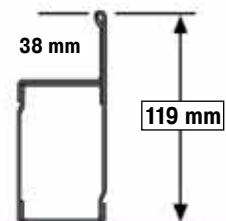
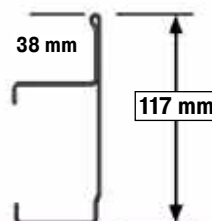
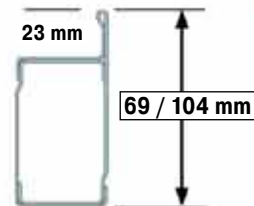
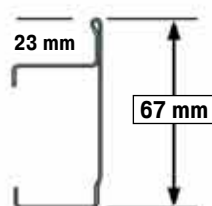
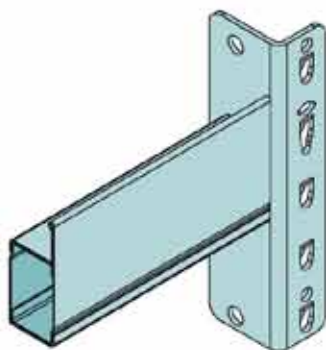
| T= 800, 1.100 (mm) |         | T= 800/1.100 mm |              |
|--------------------|---------|-----------------|--------------|
| FB= (mm)           | H= (mm) | T= 800/1.100 mm | Q= max. (kg) |
| 1.350              | PT 95L  | 95              | 1.500        |
| 1.800              | PT 95L  | 95              | 2.040        |
| 2.200              | PT 95L  | 95              | 2.100        |
| 2.700              | PT 95L  | 95              | 1.800        |
|                    | PT 110L | 110             | 2.400        |
|                    | PT 120M | 120             | 3.060        |
|                    | PT 150M | 150             | 3.060        |
| 3.300              | PT 120M | 120             | 2.400        |
|                    | PT 150M | 150             | 3.300        |
| 3.600              | PT 130M | 130             | 2.400        |
|                    | PT 150M | 150             | 3.250        |
|                    | PT 170S | 170             | 4.000        |



0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 mm



PST 67L  
PST 69L  
PST 104L  
PST 117L  
PST 119L

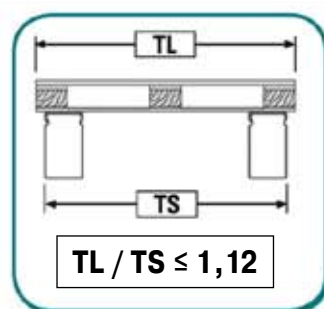
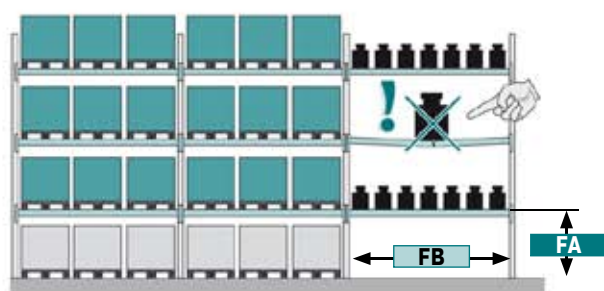
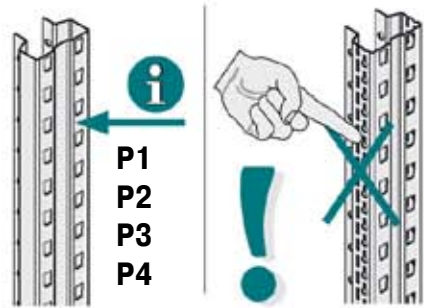
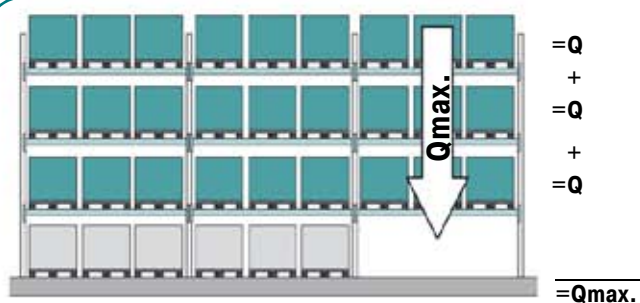


| FB= (mm) | PST 67L    |  | PST 69L    |  | PST 104L   |  | PST 117L   |  | PST 119L   |  |
|----------|------------|--|------------|--|------------|--|------------|--|------------|--|
|          | Q= max. kg |  | Q= max. kg |  | Q= max. kg |  | Q= max. kg |  | Q= max. kg |  |
| 1.350    | 400        |  | 1.200      |  | 2.000      |  | 1.200      |  | 2.000      |  |
| 1.800    | -          |  | 1.000      |  | 2.275      |  | -          |  | 2.360      |  |
| 2.200    | -          |  | 870        |  | 1.900      |  | -          |  | 2.000      |  |
| 2.700    | -          |  | 700        |  | 1.600      |  | -          |  | 1.650      |  |
| 3.300    | -          |  | 500        |  | 1.350      |  | -          |  | 1.400      |  |
| 3.600    | -          |  | 430        |  | 1.250      |  | -          |  | 1.300      |  |





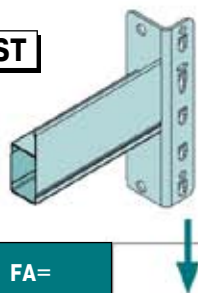




**Qmax.**

$$\Sigma Q \leq Q_{\max.}$$

**PST**



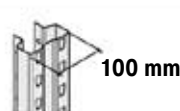
**P1**



**P2**



**P3**



**P4**



**Qmax. (kg)**

**Qmax. (kg)**

**Qmax. (kg)**

**Qmax. (kg)**

**FA= (mm)**

**FB ≤ 2.700 mm**

**FB ≤ 3.600 mm**

**FB ≤ 2.700 mm**

**FB ≤ 3.600 mm**

**FB ≤ 2.700 mm**

**FB ≤ 3.600 mm**

**FB ≤ 2.700 mm**

**FB ≤ 3.600 mm**

**1.000**

**PST 67L**

**4.900**

**3.860**

**5.480**

**4.280**

**5.420**

**4.460**

**6.120**

**4.560**

**1.250**

**3.160**

**3.100**

**4.280**

**3.680**

**4.760**

**3.900**

**4.880**

**4.040**

**1.500**

**1.760**

**1.760**

**3.120**

**2.860**

**3.200**

**3.000**

**3.940**

**3.460**

**1.750**

**1.100**

**1.100**

**2.340**

**2.540**

**2.800**

**2.600**

**3.440**

**2.840**

**2.000**

**-**

**-**

**-**

**-**

**-**

**-**

**-**

**-**

**2.500**

**-**

**-**

**-**

**-**

**-**

**-**

**-**

**-**

**1.000**

**PST 69L**

**4.900**

**3.860**

**5.660**

**4.780**

**5.420**

**5.040**

**6.120**

**5.760**

**1.250**

**3.180**

**3.100**

**4.640**

**3.780**

**4.760**

**4.080**

**4.880**

**4.300**

**1.500**

**2.440**

**2.200**

**3.780**

**3.100**

**3.860**

**3.480**

**4.500**

**3.620**

**1.750**

**2.280**

**1.880**

**3.280**

**2.640**

**3.480**

**2.840**

**3.740**

**2.980**

**2.000**

**-**

**-**

**-**

**-**

**-**

**-**

**-**

**-**

**2.500**

**-**

**-**

**-**

**-**

**-**

**-**

**-**

**-**

**1.000**

**PST 104L**

**6.000**

**6.000**

**9.360**

**8.941**

**12.160**

**11.880**

**14.860**

**13.640**

**1.250**

**6.000**

**6.000**

**8.760**

**8.560**

**11.320**

**10.320**

**13.580**

**11.620**

**1.500**

**6.000**

**5.940**

**8.220**

**7.920**

**10.180**

**8.840**

**11.900**

**9.420**

**1.750**

**5.820**

**5.680**

**7.500**

**6.660**

**8.860**

**7.620**

**9.840**

**8.100**

**2.000**

**5.140**

**5.260**

**6.800**

**5.440**

**7.580**

**6.500**

**8.740**

**6.880**

**2.500**

**4.160**

**4.060**

**5.440**

**4.020**

**5.860**

**5.160**

**6.500**

**5.420**

**1.000**

**PST 119L**

**6.000**

**6.000**

**9.360**

**8.941**

**12.160**

**11.880**

**14.860**

**13.640**

**1.250**

**6.000**

**6.000**

**8.760**

**8.560**

**11.320**

**10.320**

**13.580**

**11.620**

**1.500**

**6.000**

**5.940**

**8.220**

**7.920**

**10.180**

**8.840**

**11.900**

**9.420**

**1.750**

**5.820**

**5.680**

**7.500**

**6.660**

**8.860**

**7.620**

**9.840**

**8.100**

**2.000**

**5.140**

**5.260**

**6.800**

**5.440**

**7.580**

**6.500**

**8.740**

**6.880**

**2.500**

**4.160**

**4.060**

**5.440**

**4.020**

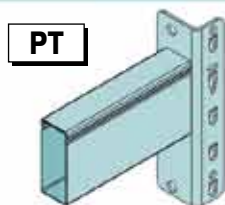
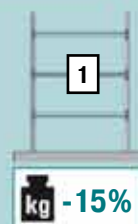
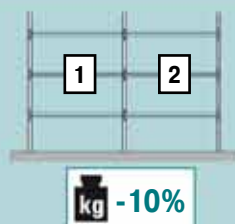
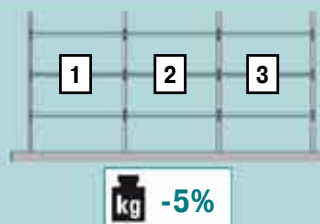
**5.860**

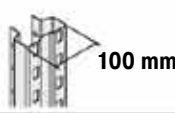
**5.160**

**6.500**

**5.420**





|             |         | P1<br> |            | P2<br> |            | P3<br> |            | P4<br> |            |
|-------------|---------|-----------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------|------------|
|             |         | Qmax. (kg)                                                                              |            | Qmax. (kg)                                                                              |            | Qmax. (kg)                                                                                |            | Qmax. (kg)                                                                                |            |
| FA=<br>(mm) |         | FB=                                                                                     |            | FB=                                                                                     |            | FB=                                                                                       |            | FB=                                                                                       |            |
|             |         | ≤ 2.700 mm                                                                              | ≤ 3.600 mm | ≤ 2.700 mm                                                                              | ≤ 3.600 mm | ≤ 2.700 mm                                                                                | ≤ 3.600 mm | ≤ 2.700 mm                                                                                | ≤ 3.600 mm |
| 1.000       | PT 95L  | 6.000                                                                                   | 6.000      | 9.500                                                                                   | 8.941      | 12.837                                                                                    | 12.202     | 16.194                                                                                    | 14.140     |
| 1.250       |         | 6.000                                                                                   | 6.000      | 9.339                                                                                   | 8.941      | 12.480                                                                                    | 11.840     | 14.980                                                                                    | 13.200     |
| 1.500       |         | 6.000                                                                                   | 6.000      | 8.860                                                                                   | 8.500      | 11.720                                                                                    | 10.280     | 13.900                                                                                    | 11.520     |
| 1.750       |         | 5.800                                                                                   | 5.660      | 7.840                                                                                   | 7.780      | 10.400                                                                                    | 8.880      | 11.920                                                                                    | 9.440      |
| 2.000       |         | 5.560                                                                                   | 5.360      | 7.460                                                                                   | 6.940      | 8.900                                                                                     | 7.520      | 10.360                                                                                    | 8.080      |
| 2.500       |         | 4.580                                                                                   | 4.100      | 5.920                                                                                   | 5.160      | 6.660                                                                                     | 5.400      | 7.680                                                                                     | 6.460      |
| 1.000       | PT 110L | 6.000                                                                                   | 6.000      | 9.500                                                                                   | 8.941      | 12.837                                                                                    | 12.202     | 16.194                                                                                    | 16.194     |
| 1.250       |         | 6.000                                                                                   | 6.000      | 9.339                                                                                   | 8.941      | 12.480                                                                                    | 12.202     | 15.973                                                                                    | 15.740     |
| 1.500       |         | 6.000                                                                                   | 6.000      | 8.860                                                                                   | 8.840      | 11.720                                                                                    | 12.040     | 15.260                                                                                    | 14.500     |
| 1.750       |         | 6.000                                                                                   | 6.000      | 8.500                                                                                   | 8.340      | 10.400                                                                                    | 10.420     | 14.240                                                                                    | 12.380     |
| 2.000       |         | 5.720                                                                                   | 5.440      | 7.460                                                                                   | 7.020      | 8.900                                                                                     | 9.120      | 12.620                                                                                    | 10.720     |
| 2.500       |         | 4.880                                                                                   | 4.560      | 6.200                                                                                   | 5.560      | 6.660                                                                                     | 6.900      | 9.720                                                                                     | 8.200      |
| 1.000       | PT 120M | 6.000                                                                                   | 6.000      | 9.500                                                                                   | 8.941      | 12.837                                                                                    | 12.202     | 16.194                                                                                    | 16.194     |
| 1.250       |         | 6.000                                                                                   | 6.000      | 9.339                                                                                   | 8.941      | 12.691                                                                                    | 12.202     | 15.973                                                                                    | 15.973     |
| 1.500       |         | 6.000                                                                                   | 6.000      | 9.177                                                                                   | 8.840      | 12.100                                                                                    | 12.202     | 15.751                                                                                    | 15.440     |
| 1.750       |         | 6.000                                                                                   | 6.000      | 8.700                                                                                   | 8.540      | 11.740                                                                                    | 11.500     | 14.840                                                                                    | 14.460     |
| 2.000       |         | 6.000                                                                                   | 5.720      | 7.680                                                                                   | 7.220      | 10.240                                                                                    | 10.060     | 14.000                                                                                    | 13.240     |
| 2.500       |         | 4.880                                                                                   | 4.560      | 6.820                                                                                   | 6.220      | 9.140                                                                                     | 8.340      | 11.780                                                                                    | 10.200     |
| 1.000       | PT 130M | 6.000                                                                                   | 6.000      | 9.500                                                                                   | 8.941      | 12.837                                                                                    | 12.202     | 16.194                                                                                    | 16.194     |
| 1.250       |         | 6.000                                                                                   | 6.000      | 9.339                                                                                   | 8.941      | 12.691                                                                                    | 12.202     | 15.973                                                                                    | 15.973     |
| 1.500       |         | 6.000                                                                                   | 6.000      | 9.177                                                                                   | 8.941      | 12.544                                                                                    | 12.202     | 15.751                                                                                    | 15.751     |
| 1.750       |         | 6.000                                                                                   | 6.000      | 8.700                                                                                   | 8.540      | 11.580                                                                                    | 11.500     | 15.280                                                                                    | 14.720     |
| 2.000       |         | 6.000                                                                                   | 5.720      | 7.680                                                                                   | 8.140      | 9.780                                                                                     | 10.800     | 14.220                                                                                    | 13.780     |
| 2.500       |         | 4.880                                                                                   | 4.900      | 7.000                                                                                   | 6.220      | 8.580                                                                                     | 8.340      | 12.500                                                                                    | 11.840     |
| 1.000       | PT 150M | 6.000                                                                                   | 6.000      | 9.500                                                                                   | 8.941      | 12.837                                                                                    | 12.202     | 16.194                                                                                    | 16.194     |
| 1.250       |         | 6.000                                                                                   | 6.000      | 9.339                                                                                   | 8.941      | 12.691                                                                                    | 12.202     | 15.973                                                                                    | 15.973     |
| 1.500       |         | 6.000                                                                                   | 6.000      | 9.177                                                                                   | 8.941      | 12.544                                                                                    | 12.202     | 15.751                                                                                    | 15.751     |
| 1.750       |         | 6.000                                                                                   | 6.000      | 9.016                                                                                   | 8.540      | 12.280                                                                                    | 12.040     | 15.530                                                                                    | 15.420     |
| 2.000       |         | 6.000                                                                                   | 5.920      | 8.460                                                                                   | 8.140      | 11.060                                                                                    | 10.800     | 14.960                                                                                    | 14.620     |
| 2.500       |         | 4.880                                                                                   | 4.900      | 7.000                                                                                   | 6.460      | 9.840                                                                                     | 9.560      | 13.060                                                                                    | 12.600     |
| 1.000       | PT 170S | 6.000                                                                                   | 6.000      | 9.500                                                                                   | 8.941      | 12.837                                                                                    | 12.202     | 16.194                                                                                    | 16.194     |
| 1.250       |         | 6.000                                                                                   | 6.000      | 9.339                                                                                   | 8.941      | 12.691                                                                                    | 12.202     | 15.973                                                                                    | 15.973     |
| 1.500       |         | 6.000                                                                                   | 6.000      | 9.177                                                                                   | 8.941      | 12.544                                                                                    | 12.202     | 15.751                                                                                    | 15.751     |
| 1.750       |         | 6.000                                                                                   | 6.000      | 9.016                                                                                   | 8.941      | 12.398                                                                                    | 12.202     | 15.530                                                                                    | 15.530     |
| 2.000       |         | 6.000                                                                                   | 5.920      | 8.460                                                                                   | 8.460      | 11.640                                                                                    | 11.480     | 15.240                                                                                    | 14.480     |
| 2.500       |         | 4.880                                                                                   | 4.900      | 7.000                                                                                   | 6.720      | 9.900                                                                                     | 9.760      | 13.860                                                                                    | 13.380     |



0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 mm



# BITO

## PL-PRO

