



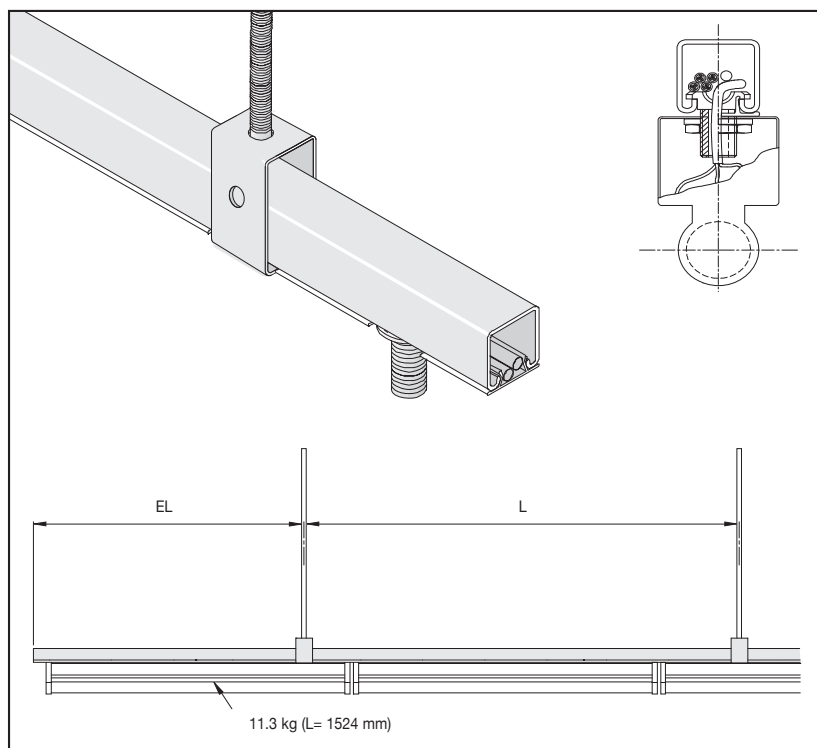
# LIGHTING SUPPORTS

## Fluorescent lighting supports and fittings

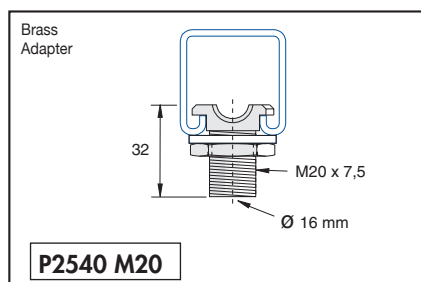
|       | L   | f    | EL        |
|-------|-----|------|-----------|
|       | m   | mm   | m         |
| P4000 | 2.5 | 8.8  | 0.6 - 0.8 |
| P3300 | 2.5 | 7.1  | 0.6 - 0.8 |
| P1000 | 2.5 | 1.3  | 0.6 - 0.8 |
| P3301 | 3   | 3.6  | 0.8 - 1.0 |
| P1000 | 3   | 2.5  | 0.8 - 1.0 |
| P3301 | 3.5 | 7.0  | 0.9 - 1.2 |
| P1000 | 3.5 | 4.9  | 0.9 - 1.2 |
| P3301 | 4   | 12.3 | 1.0 - 1.4 |
| P1000 | 4   | 8.6  | 1.0 - 1.4 |
| P1001 | 4   | 2.3  | 1.0 - 1.4 |
| P1000 | 4.5 | 13.3 | 1.2 - 1.5 |
| P1001 | 4.5 | 3.5  | 1.2 - 1.5 |
| P1001 | 5   | 5.2  | 1.4 - 1.7 |
| P1001 | 6   | 11.7 | 1.5 - 1.8 |

f = Deflection \*

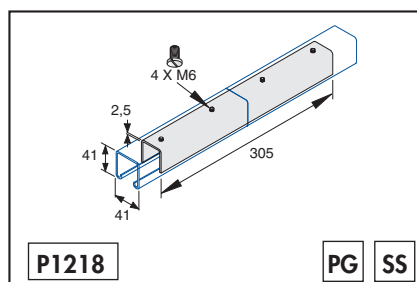
\* Deflections are based on continuity of span assuming adequate lateral support and use of fixtures each weighing approximately 11.3Kg and being 1524mm long. Joiner fittings should be positioned at one quarter span between supporting hangers. With fixtures having 600mm spacing results in a deflection of 70 - 80% of above value. 1200mm spacing results in a deflection of 50 - 60% of above value.



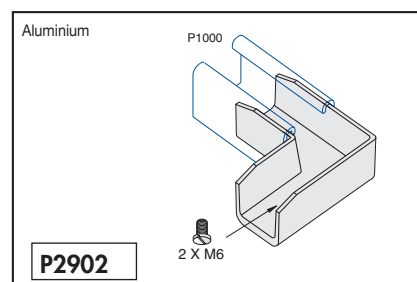
LIGHTING  
SUPPORTS



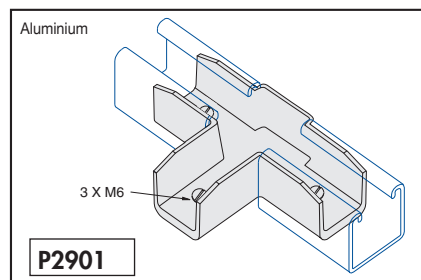
| Part No. | Weight | Quantity |
|----------|--------|----------|
| P2540M20 | 0.05   | 10       |



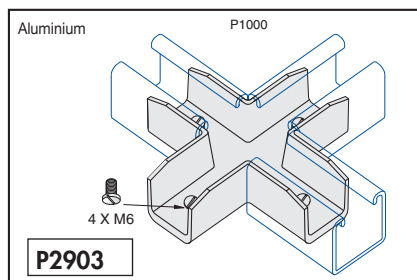
| Part No. | Finish | Weight | Quantity |
|----------|--------|--------|----------|
| P1218    | PG SS  | 0.519  | 15       |



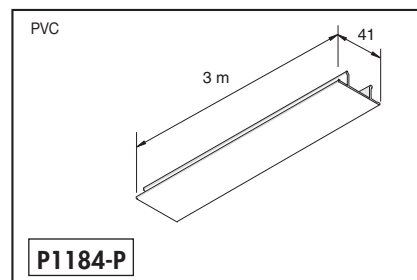
| Part No. | Weight | Quantity |
|----------|--------|----------|
| P2902    | 0.405  | 10       |



| Part No. | Weight | Quantity |
|----------|--------|----------|
| P2901    | 0.16   | 10       |



| Part No. | Weight | Quantity |
|----------|--------|----------|
| P2903    | 0.20   | 10       |

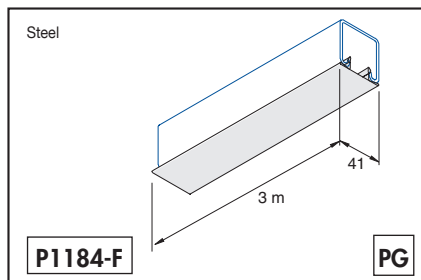


| Part No. | Colour | Weight | Quantity |
|----------|--------|--------|----------|
| P1184-PW | White  | 0.48   | 1        |
| P1184-PB | Black  | 0.48   | 1        |

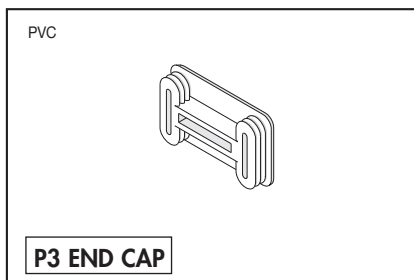


# LIGHTING SUPPORTS

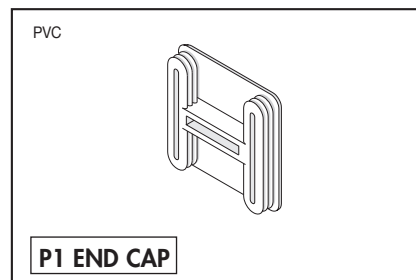
## Fluorescent lighting supports and fittings



| Part No. |      |   |
|----------|------|---|
| P1184-F  | 1.07 | 1 |

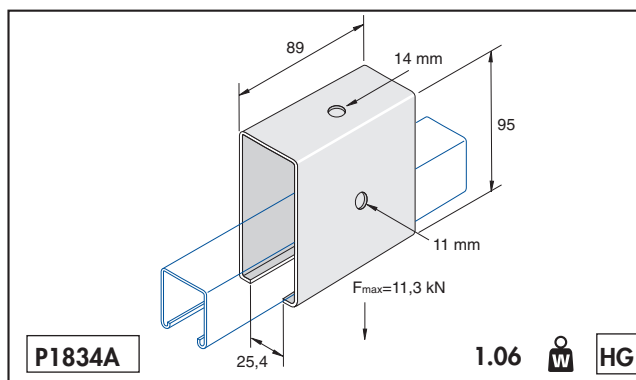
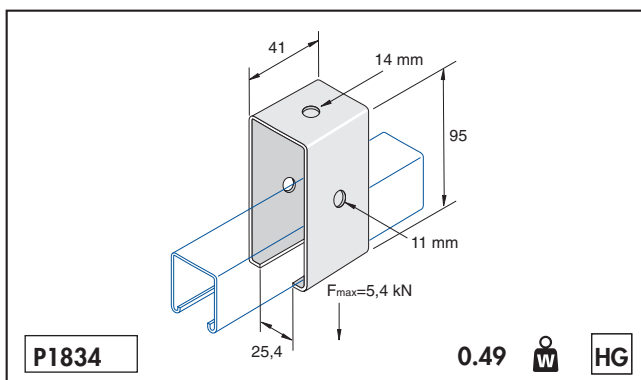
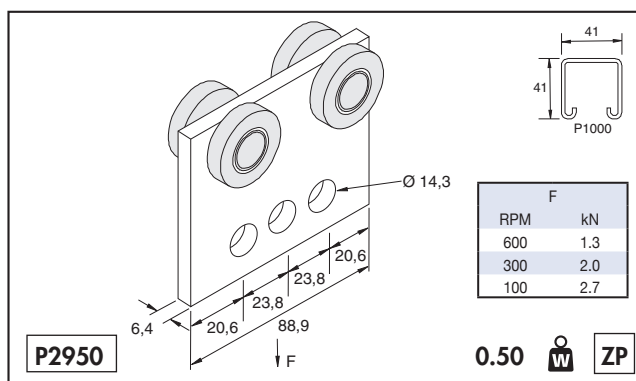
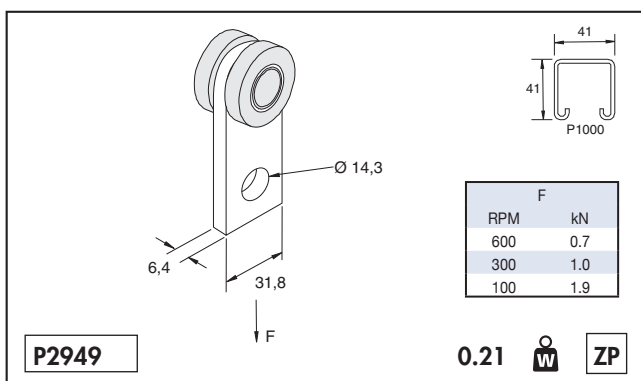
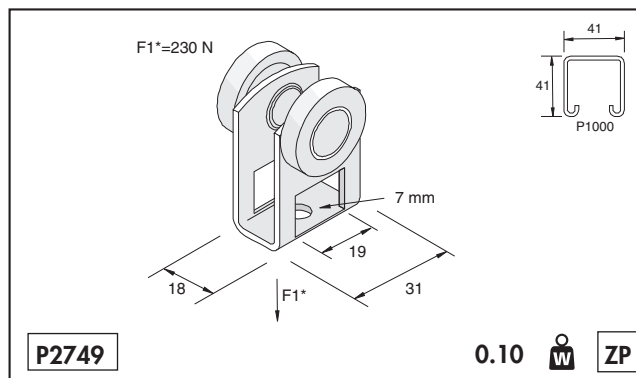
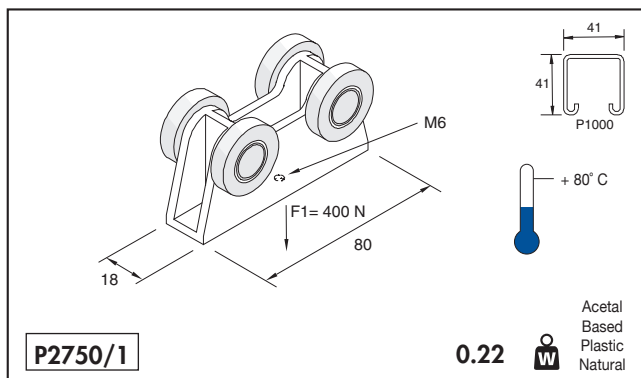


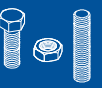
| Part No.  | Part No.  | Part No.  |       |      |     |
|-----------|-----------|-----------|-------|------|-----|
| Blue      | White     | Black     |       | /100 |     |
| 139 21 98 | 139 21 96 | 139 21 97 | 41x21 | 0.3  | 100 |



| Part No.  | Part No.  | Part No.  |       |      |     |
|-----------|-----------|-----------|-------|------|-----|
| Blue      | White     | Black     |       | /100 |     |
| 139 41 98 | 139 41 96 | 139 41 97 | 41x41 | 0.5  | 100 |

## Channel trolley assemblies

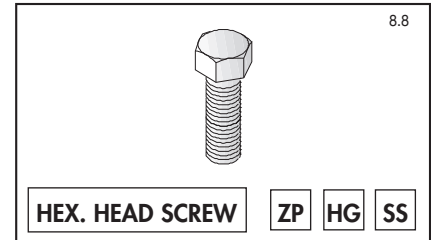




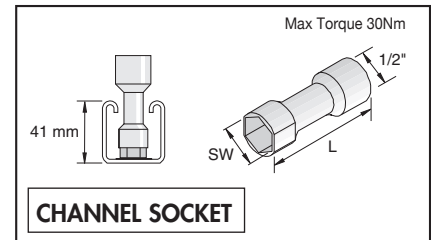
## FIXINGS

### Nuts, bolts & washers

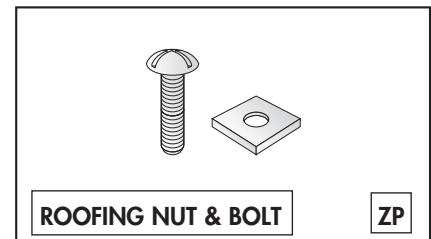
| Part No.<br>M6 | Part No.<br>M8 | Part No.<br>M10 | Part No.<br>M12 | ZP | Finish<br>HG | SS |     |
|----------------|----------------|-----------------|-----------------|----|--------------|----|-----|
| M6x12HS        | M8x20HS        | M10x20HS        | M12x22HS        | •  | •            | •  | 100 |
| M6x16HS        | M8x25HS        | M10x25HS        | M12x25HS        | •  | •            | •  | 100 |
| M6x20HS        | M8x30HS        | M10x30HS        | M12x30HS        | •  | •            | •  | 100 |
| M6x25HS        | M8x35HS        | M10x40HS        | M12x40HS        | •  | •            | •  | 100 |
| M6x30HS        | M8x40HS        | M10x50HS        | M12x50HS        | •  | •            | •  | 100 |
| M6x35HS        | M8x45HS        | M10x60HS        | M12x60HS        | •  | •            | •  | 100 |
| M6x40HS        | M8x50HS        | M10x80HS        | M12x80HS        | •  | •            | •  | 100 |
| M6x60HS        | M8x60HS        | M10x100HS       | M12x100HS       | •  | •            | •  | 100 |



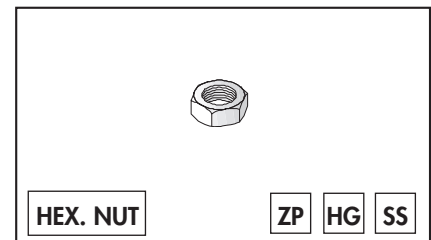
| Part No.<br>M10 | Part No.<br>M12 |
|-----------------|-----------------|
| 17AF            | 19AF            |



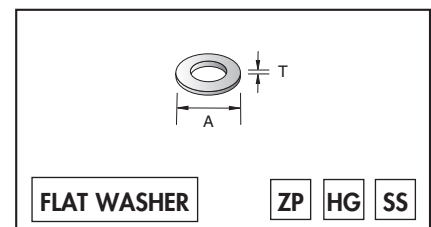
| Part No. | Finish<br>ZP | L (mm) | Wt /100 |     |
|----------|--------------|--------|---------|-----|
| M6x12RB  | •            | 12     | 1.0     | 100 |
| M6x16RB  | •            | 16     | 1.0     | 100 |
| M6x20RB  | •            | 20     | 1.0     | 100 |
| M6x25RB  | •            | 25     | 1.0     | 100 |
| M6x30RB  | •            | 30     | 1.0     | 100 |
| M6x40RB  | •            | 40     | 1.0     | 100 |
| M6x50RB  | •            | 50     | 1.0     | 100 |
| M6x60RB  | •            | 60     | 1.0     | 100 |



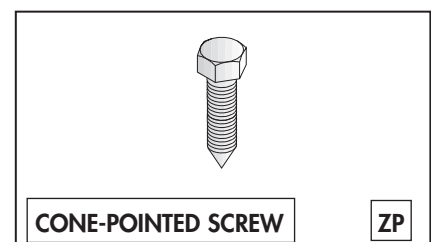
| Part No.<br>M6 | Part No.<br>M8 | Part No.<br>M10 | Part No.<br>M12 | Part No.<br>M16 | ZP | Finish<br>HG | SS |     |
|----------------|----------------|-----------------|-----------------|-----------------|----|--------------|----|-----|
| M6HN           | M8HN           | M10HN           | M12HN           | M16HN           | •  | •            | •  | 100 |

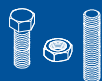


| Part No.<br>M6 | Part No.<br>M8 | Part No.<br>M10 | Part No.<br>M12 | Part No.<br>M16 |     |
|----------------|----------------|-----------------|-----------------|-----------------|-----|
| M6FW           | M8FW           | M10FW           | M12FW           | M16FW           |     |
| (A=12.5mm)     | (A=17mm)       | (A=21mm)        | (A=24mm)        | (A=30mm)        | 100 |
| (T=1.6mm)      | (T=2.0mm)      | (T=2.5mm)       | (T=3.0mm)       | (T=3.0mm)       | 100 |



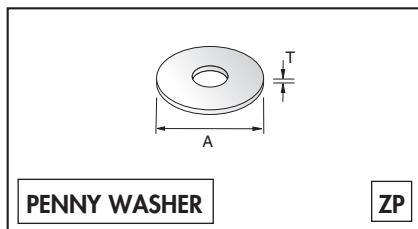
| Part No. | Finish<br>ZP | Wt /100 |     |
|----------|--------------|---------|-----|
| M10x40CP | •            | 2.5     | 100 |
| M12x40CP | •            | 3.9     | 100 |



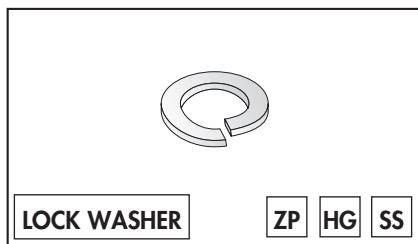


# FIXINGS

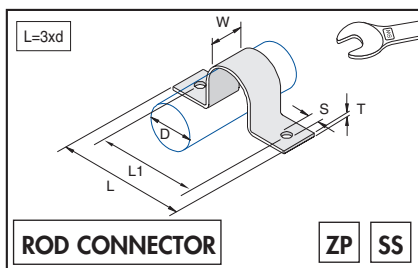
## Washers & Threaded Rod Connectors



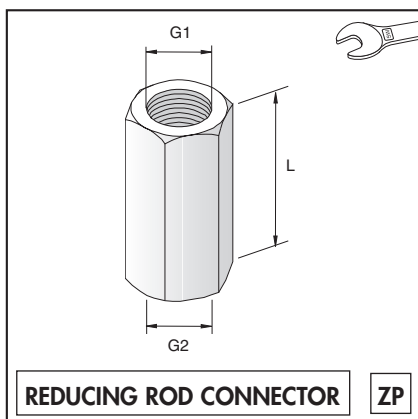
| Part No. | Part No. | Part No. | Finish |    |     |     |
|----------|----------|----------|--------|----|-----|-----|
| M6       | M8       | M10      | ZP     | A  | T   |     |
| M6x25PW  | M8x25PW  | M10x25PW | •      | 25 | 1.5 | 100 |
| M6x32PW  | M8x32PW  | M10x32PW | •      | 32 | 1.5 | 100 |



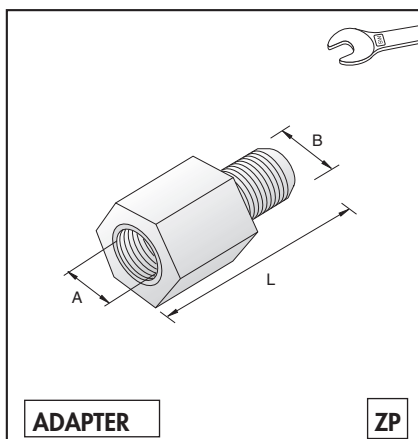
| Part No. | Part No. | Part No. | Part No. | Part No. | Finish |    |    |     |
|----------|----------|----------|----------|----------|--------|----|----|-----|
| M6       | M8       | M10      | M12      | M16      | ZP     | HG | SS |     |
| M6LW     | M8LW     | M10LW    | M12LW    | M16LW    | •      | •  | •  | 100 |



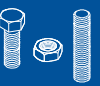
| Part No. | Finish |    | G    | SW | L  |    |
|----------|--------|----|------|----|----|----|
|          | ZP     | SS |      | mm | mm |    |
| 6334M6   | •      | •  | M6   | 10 | 18 | 50 |
| 6334M8   | •      | •  | M8   | 13 | 24 | 50 |
| 6334M10  | •      | •  | M10  | 17 | 30 | 50 |
| 6334M12  | •      | •  | M12  | 19 | 36 | 50 |
| 6334M16  | •      | •  | M16  | 24 | 48 | 50 |
| SP3838   | •      |    | 3/8" | 19 | 35 | 50 |
| SP1212   | •      |    | 1/2" | 27 | 35 | 50 |



| Part No. | Finish | G1  | G2  | SW | L  |    |
|----------|--------|-----|-----|----|----|----|
|          | ZP     |     |     | mm | mm |    |
| SPM8M10  | •      | M8  | M10 | 13 | 30 | 50 |
| SPM10M12 | •      | M10 | M12 | 17 | 30 | 50 |



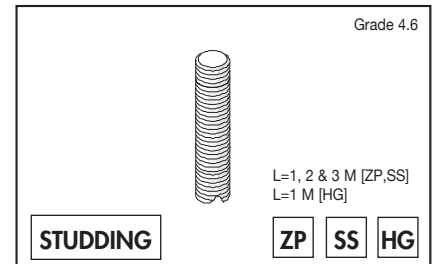
| Part No. | Finish | A    | B   | SW | L  |     |
|----------|--------|------|-----|----|----|-----|
|          | ZP     |      |     | mm | mm |     |
| 310810   | •      | M8   | M10 | 13 | 21 | 50  |
| 310812   | •      | M8   | M12 | 13 | 23 | 50  |
| 311008   | •      | M10  | M8  | 13 | 23 | 50  |
| 311012   | •      | M10  | M12 | 13 | 23 | 50  |
| 311016   | •      | M10  | M16 | 19 | 32 | 50  |
| 311208   | •      | M12  | M8  | 17 | 23 | 50  |
| 311210   | •      | M12  | M10 | 17 | 25 | 50  |
| 311216   | •      | M12  | M16 | 19 | 32 | 50  |
| 311610   | •      | M16  | M10 | 24 | 32 | 50  |
| 311612   | •      | M16  | M12 | 24 | 32 | 50  |
| 1482210  | •      | 1/2" | M10 | 24 | 30 | 100 |
| 1482212  | •      | 1/2" | M12 | 24 | 30 | 100 |
| 1482216  | •      | 1/2" | M16 | 30 | 35 | 100 |



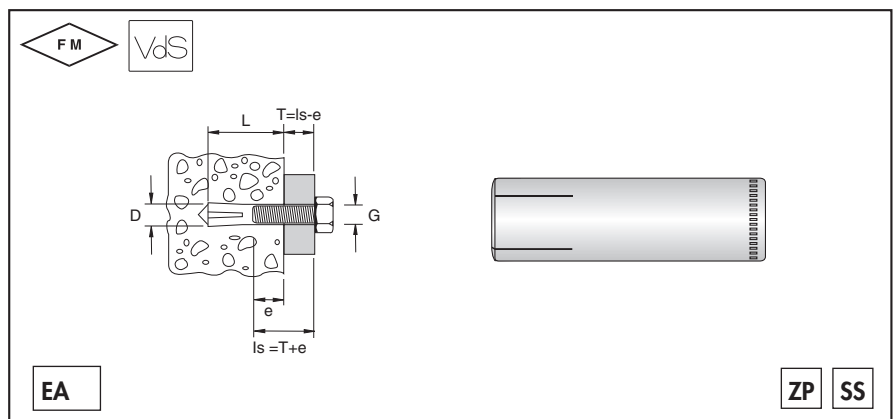
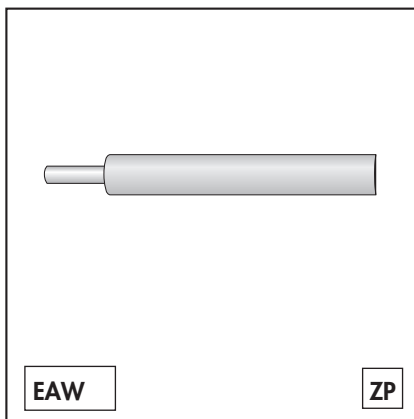
# FIXINGS

## Threaded rods & studs

| Part No.<br>M6 | Part No.<br>M8 | Part No.<br>M10 | Part No.<br>M12 | Part No.<br>M16 | ZP | Finish<br>SS | HG |
|----------------|----------------|-----------------|-----------------|-----------------|----|--------------|----|
| M6x1M          | M8x1M          | M10x1M          | M12x1M          | M16x1M          | •  | •            | •  |
| M6x2M          | M8x2M          | M10x2M          | M12x2M          | M16x2M          | •  | •            | •  |
| M6x3M          | M8x3M          | M10x3M          | M12x3M          | M16x3M          | •  | •            | •  |



## Non drill anchors

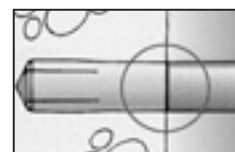
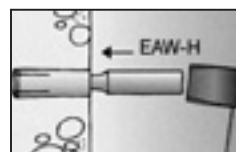
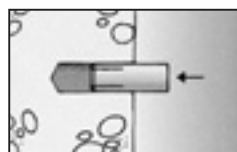


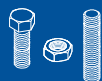
| Part No. | Part No. |
|----------|----------|
| EAWH6    | EAM6     |
| EAWH8    | EAM8     |
| EAWH8x40 | EAM8x40  |
| EAWH10   | EAM10    |
| EAWH12   | EAM12    |
| EAWH16   | EAM16    |
| EAWH20   | EAM20    |

| Part No. | Finish<br>ZP | Class   | D<br>mm | L<br>mm | $\phi$ mm | G   | e (mm) |    |     | Approval: |
|----------|--------------|---------|---------|---------|-----------|-----|--------|----|-----|-----------|
| EAM6     | •            | -       | 8       | 25      | 8         | M6  | 6      | 11 | 100 |           |
| EAM8     | •            | 1.8kN*  | 10      | 30      | 10        | M8  | 8      | 13 | 100 | VdS       |
| EAM8x40  | •            | 3kN*    | 10      | 40      | 10        | M8  | 8      | 13 | 50  | VdS FM    |
| EAM10    | •            | 3.6kN*  | 12      | 40      | 12        | M10 | 10     | 17 | 50  | VdS FM    |
| EAM12    | •            | 5.7kN*  | 15      | 50      | 15        | M12 | 12     | 18 | 25  | VdS FM    |
| EAM16    | •            | 7.4kN*  | 20      | 65      | 20        | M16 | 16     | 21 | 20  | VdS FM    |
| EAM20    | •            | 11.3kN* | 25      | 80      | 25        | M20 | 20     | 30 | 10  | VdS FM    |

| Part No. | Finish<br>SS | Class  | D<br>mm | L<br>mm | $\phi$ mm | G   | e (mm) |    |     | Approval: |
|----------|--------------|--------|---------|---------|-----------|-----|--------|----|-----|-----------|
| EAM6     | •            | -      | 8       | 25      | 8         | M6  | 6      | 11 | 100 |           |
| EAM8     | •            | -      | 10      | 30      | 10        | M8  | 8      | 13 | 100 |           |
| EAM10    | •            | 3.0kN* | 12      | 40      | 12        | M10 | 10     | 17 | 50  | VdS FM    |
| EAM12    | •            | 3.6kN* | 15      | 50      | 15        | M12 | 12     | 18 | 25  | FM        |
| EAM16    | •            | 5.7kN* | 20      | 65      | 20        | M16 | 16     | 21 | 20  | FM        |

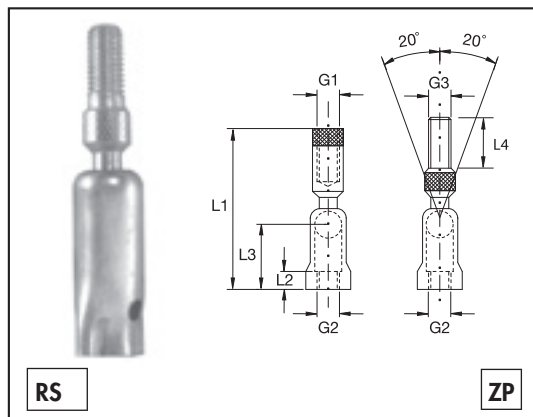
\* Loading data is applicable for concrete pressure zone only (B=25 N/mm<sup>2</sup>)





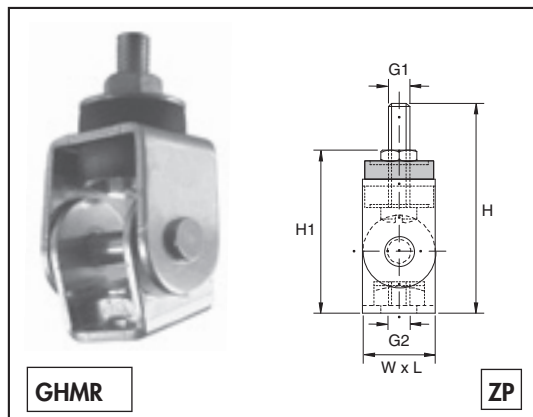
# FIXINGS

## Rod swivel



| Part No.  | Finish<br>ZP | G1  | G2  | G3  | L1<br>mm | L2<br>mm | L3<br>mm | L4<br>mm | Fmax<br>N |     |     |
|-----------|--------------|-----|-----|-----|----------|----------|----------|----------|-----------|-----|-----|
| 124 08 03 | •            |     | M8  | M8  | 74       | 8        | 30       | 15       | 2500      | .03 | 100 |
| 124 10 03 | •            |     | M10 | M10 | 74       | 8        | 30       | 15       | 2500      | .04 | 100 |
| 124 12 03 | •            | M12 | M12 |     | 96       | 15       | 53       |          | 5000      | .15 | 100 |
| 66 42 008 | •            |     | M8  | M8  | 49       | 10       | 20       | 15       | 3100      | .03 | 50  |
| 66 42 010 | •            |     | M10 | M10 | 49       | 13       | 23       | 15       | 3100      | .03 | 50  |

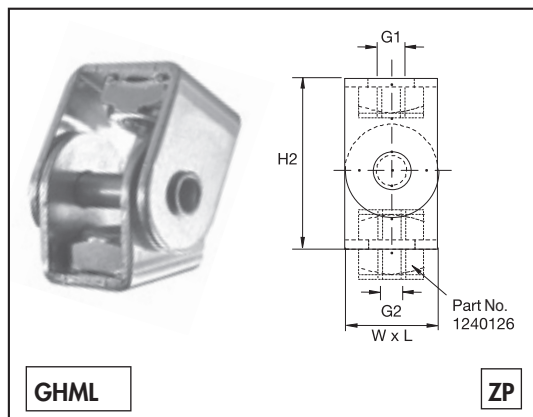
## Adjustable angle fitting with sound insulation



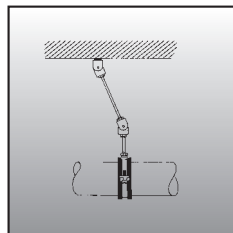
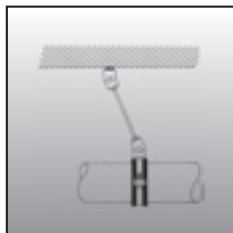
| Part No.  | Finish<br>ZP | G1 | G2  | H2<br>mm | W x L<br>mm | H1<br>mm | H<br>mm | Fmax<br>kN |     |     |
|-----------|--------------|----|-----|----------|-------------|----------|---------|------------|-----|-----|
| 124 08 86 | •            | M8 | M8  | 45       | 36 x 25     | 60       | 70      | 5.7        | .13 | 100 |
| 124 81 06 | •            | M8 | M10 | 45       | 36 x 25     | 60       | 70      | 5.7        | .13 | 100 |

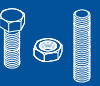


Sound insulation value on average 22 dB (A)



| PART NO.  | FINISH<br>ZP | G1  | G2  | H2<br>MM | W x L<br>MM |  90° |  135° |  180° |  |  |
|-----------|--------------|-----|-----|----------|-------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 124 00 86 | •            | M8  | M8  | 45       | 36 x 25     | 3.5                                                                                       | 4.5                                                                                        | 5.5                                                                                        | .11                                                                                   | 100                                                                                   |
| 124 01 06 | •            | M10 | M10 | 45       | 36 x 25     | 3.5                                                                                       | 4.5                                                                                        | 5.5                                                                                        | .11                                                                                   | 100                                                                                   |
| 124 01 26 | •            | M12 | M12 | 64       | 36 x 25     | 3.5                                                                                       | 4.5                                                                                        | 5.5                                                                                        | .12                                                                                   | 100                                                                                   |

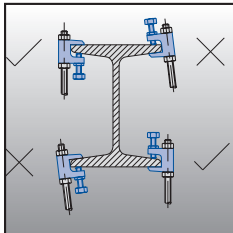
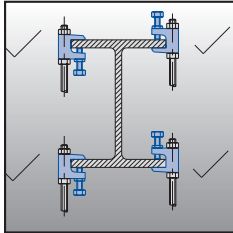




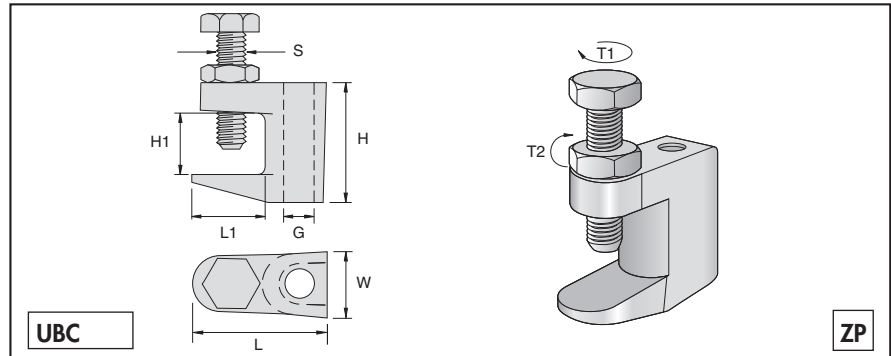
# FIXINGS

## Beam clamps

FM

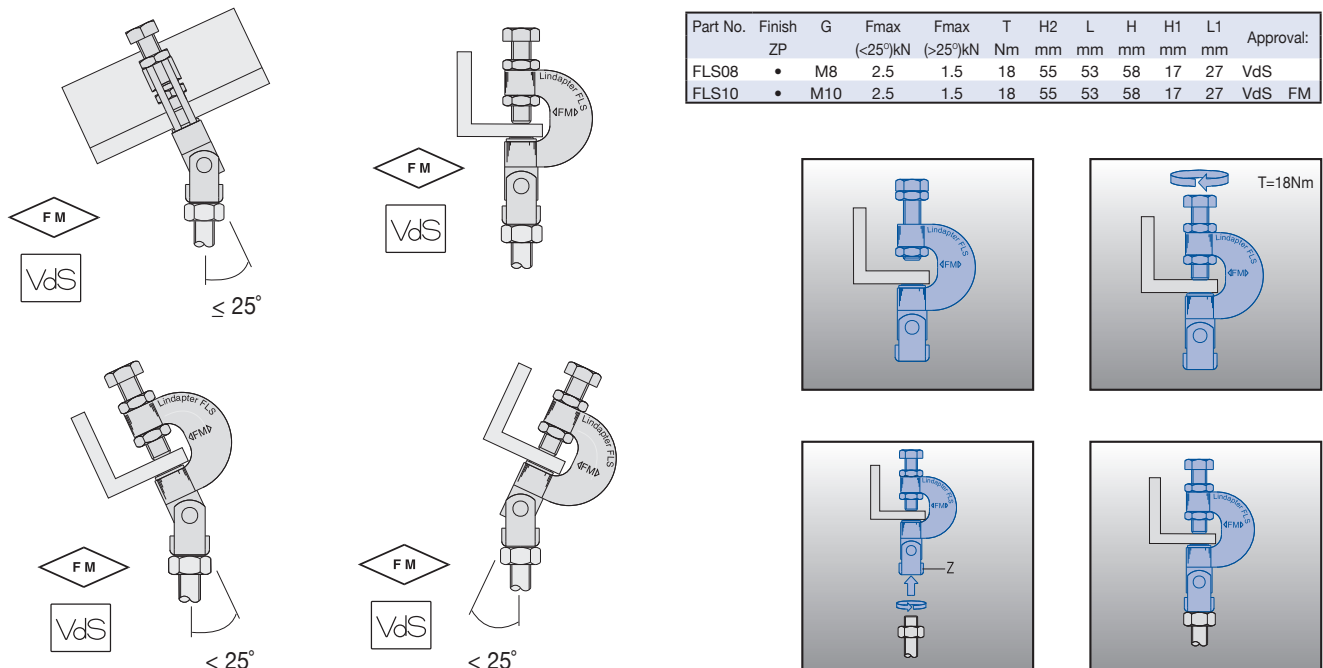
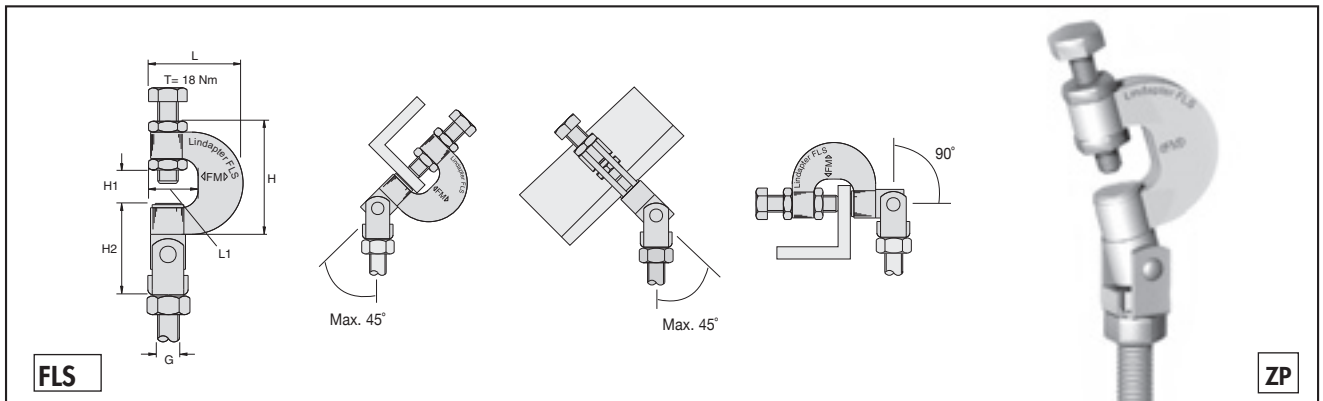


✓ = good  
x = wrong

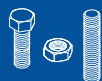


| Part No. | Finish | Fmax | T1 | T2 | L  | H  | W  | H1 | L1 | G   | S  | Approval: |
|----------|--------|------|----|----|----|----|----|----|----|-----|----|-----------|
| FL16T    | • ZP   | 1.1  | 8  | 11 | 36 | 35 | 19 | 17 | 20 | M6  | 8  | 50        |
| FL18P    | •      | 1.1  | 8  | 11 | 36 | 35 | 19 | 17 | 20 | 9   | 8  | 50        |
| FL18T    | •      | 1.1  | 8  | 11 | 36 | 35 | 19 | 17 | 20 | M8  | 8  | 50        |
| FL201P   | •      | 2.4  | 8  | 22 | 45 | 40 | 22 | 19 | 22 | 11  | 10 | 50 FM     |
| FL201T   | •      | 2.4  | 8  | 22 | 45 | 40 | 22 | 19 | 22 | M10 | 10 | 50 FM     |
| F312P    | •      | 3.1  | 8  | 22 | 50 | 46 | 25 | 23 | 28 | 13  | 10 | 25 FM     |
| F312T    | •      | 3.1  | 8  | 22 | 50 | 46 | 25 | 23 | 28 | M12 | 10 | 25 FM     |

## Articulated beam clamp

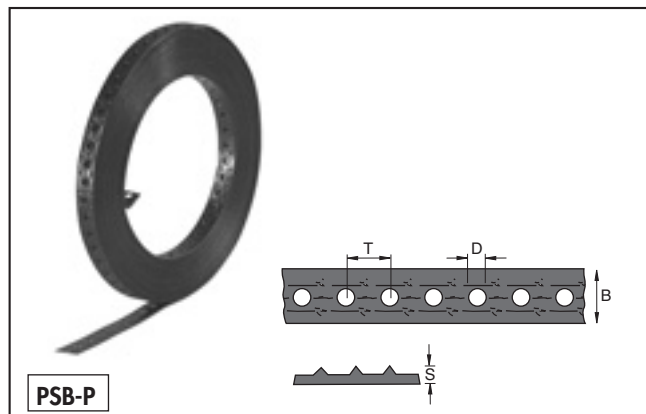


| Part No. | Finish | G   | Fmax | Fmax | T  | H2 | L  | H  | H1 | L1 | Approval: |
|----------|--------|-----|------|------|----|----|----|----|----|----|-----------|
| FLS08    | • ZP   | M8  | 2.5  | 1.5  | 18 | 55 | 53 | 58 | 17 | 27 | VdS       |
| FLS10    | •      | M10 | 2.5  | 1.5  | 18 | 55 | 53 | 58 | 17 | 27 | VdS FM    |



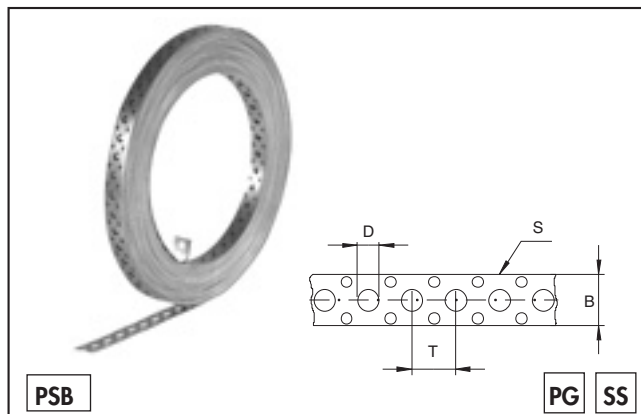
# FIXINGS

## Perforated steel band, plastic coated



| Part No.  | B<br>mm | D<br>mm | T<br>mm | S<br>mm | F<br>N | m/ |      |    |
|-----------|---------|---------|---------|---------|--------|----|------|----|
| 154 19 02 | 19      | 6.2     | 15      | 2.2     | 850    | 10 | 1.05 | 20 |
| 154 27 02 | 27      | 8.2     | 25      | 3.0     | 1500   | 10 | 1.99 | 16 |

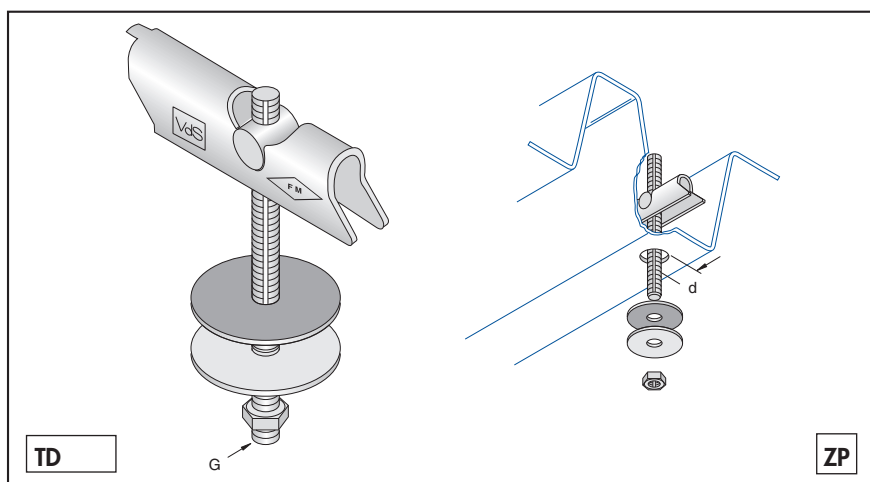
## Perforated steel band



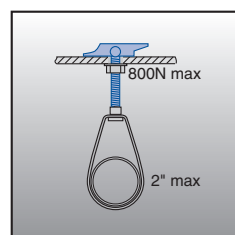
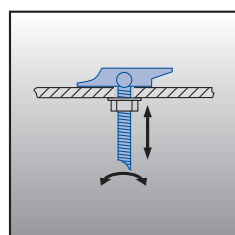
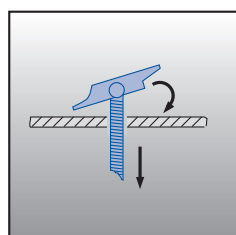
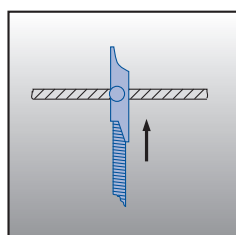
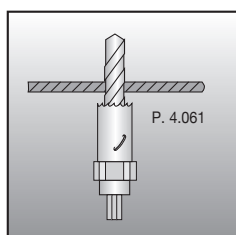
| Part No.  | Finish<br>PG SS | B<br>mm | D<br>mm | T<br>mm | S<br>mm | F<br>N | m/ |      |    |
|-----------|-----------------|---------|---------|---------|---------|--------|----|------|----|
| 155 17 02 | •               | 17      | 6.5     | 15      | 0.8     | 850    | 25 | 2.25 | 8  |
| 155 25 02 | •               | 25      | 8.5     | 25      | 1.0     | 1500   | 10 | 1.66 | 16 |
| 135 17 02 | •               | 17      | 6.5     | 15      | 0.8     | 850    | 10 | 0.60 | 10 |

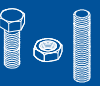
Finish : stainless steel DIN 14016; ASTM 430; BS 430S17

## Toggle clamp for hollow ceilings



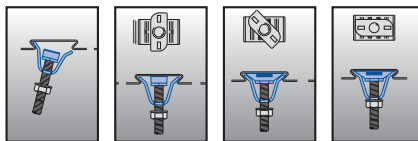
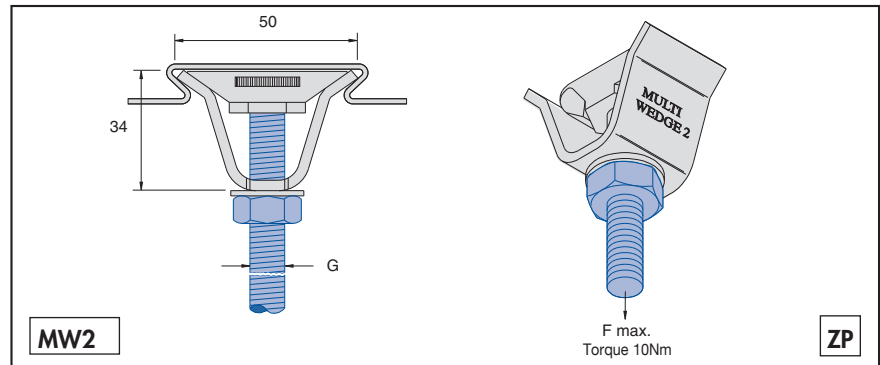
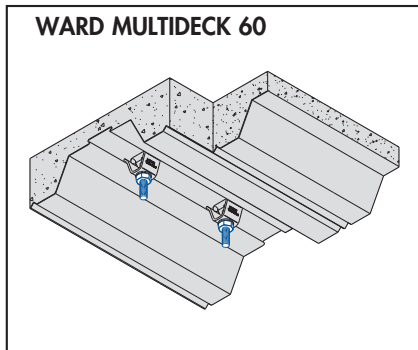
| Part No.  | G<br>mm | Finish<br>ZP | d<br>mm |      |     | Approval |
|-----------|---------|--------------|---------|------|-----|----------|
| TDM6x85   | M6x85   | •            | 15      | 0.05 | 100 | -        |
| TDM8x100  | M8x100  | •            | 22      | 0.11 | 100 | VdS      |
| TDM8x200  | M8x200  | •            | 22      | 0.14 | 100 | VdS      |
| TDM8x300  | M8x300  | •            | 22      | 0.16 | 50  | VdS      |
| TDM8x500  | M8x500  | •            | 22      | 0.24 | 50  | VdS      |
| TDM10x100 | M10x100 | •            | 25      | 0.13 | 50  | VdS FM   |
| TDM10x200 | M10x200 | •            | 25      | 0.18 | 50  | VdS FM   |



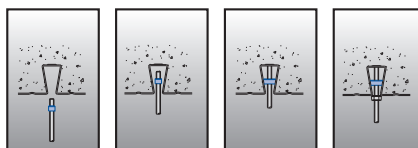
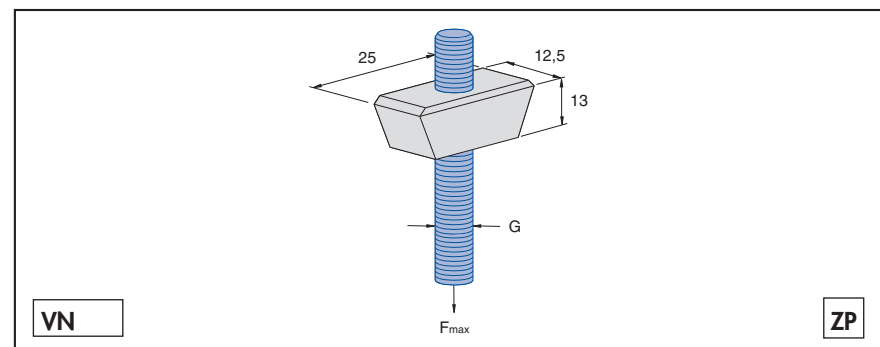
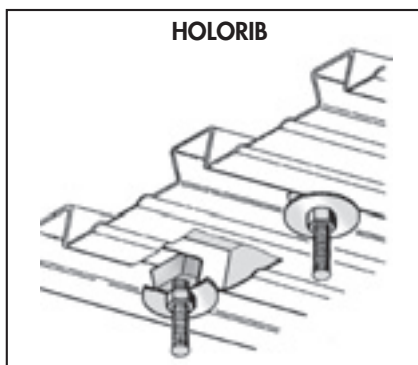


# FIXINGS

## Deck and purlin fixings

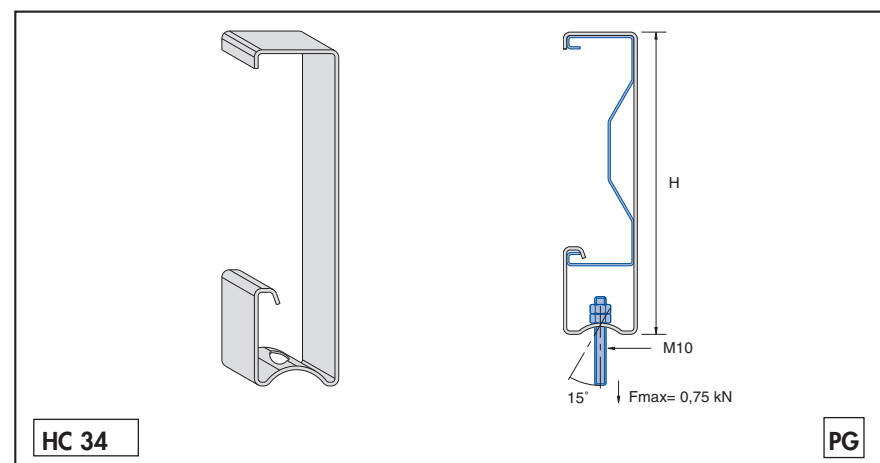
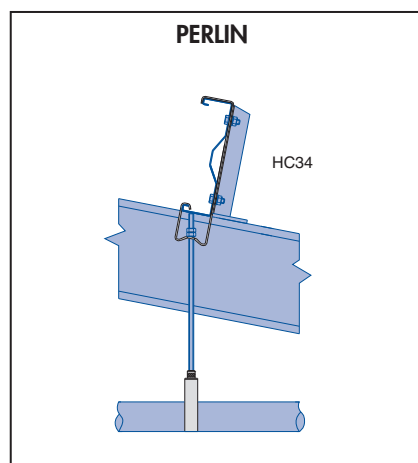


| Part No. | Finish<br>ZP | G   | Fmax<br>kN |      |    |
|----------|--------------|-----|------------|------|----|
| MW06     | •            | M6  | 1.47       | 0.10 | 50 |
| MW08     | •            | M8  | 1.47       | 0.10 | 50 |
| MW10     | •            | M10 | 1.47       | 0.10 | 50 |



| Part No. | Finish<br>ZP | G   | Fmax<br>kN |      |     |
|----------|--------------|-----|------------|------|-----|
| VN04     | •            | M4  | 0.86       | 0.02 | 500 |
| VN05     | •            | M5  | 1.4        | 0.02 | 500 |
| VN06     | •            | M6  | 1.8        | 0.02 | 500 |
| VN08     | •            | M8  | 2.0        | 0.02 | 500 |
| VN10     | •            | M10 | 2.1        | 0.02 | 500 |

Loads quoted are subject to the strength of the supporting decking. Suitable for decking with a 15° tapered slot.



For use with Ward's Multibeam 3 range of purlins. Loads quoted are subject to the strength of the supporting purlin. Can be used to suspend from cauted purlins at up to 15° from the vertical.

| Part No. | Finish<br>PG | For Purlin:<br>Ward Multibeam 3 | H<br>mm |      |    |
|----------|--------------|---------------------------------|---------|------|----|
| SWPL1    | •            | 145                             | 210     | 0.28 | 20 |
| SWPL2    | •            | 175                             | 240     | 0.31 | 20 |
| SWPL3    | •            | 205                             | 270     | 0.32 | 20 |
| SWPL4    | •            | 235                             | 300     | 0.34 | 20 |
| SWPL5    | •            | 265                             | 330     | 0.36 | 20 |