# 5


P. 63


P. 64


P. 64


P. 65


P. 65

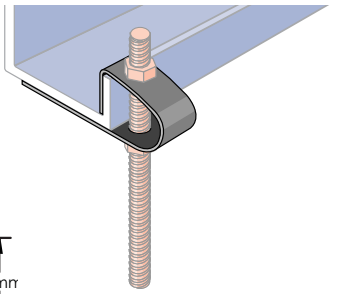

P. 66


P. 66

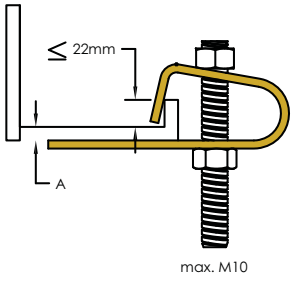

P. 67

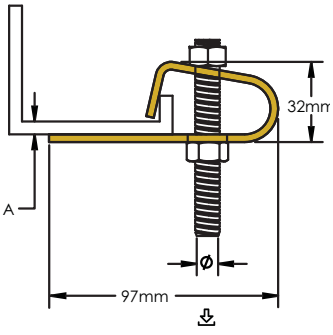
# D1

| | | A (mm) | Ø (mm) | P | | |
|---|---|---|---|---|---|---|
| 336280 | D1 | ≤4.0 | 11 | P1 | 100 | 1200 N |



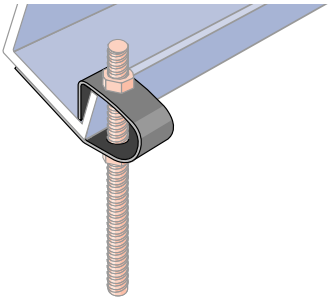




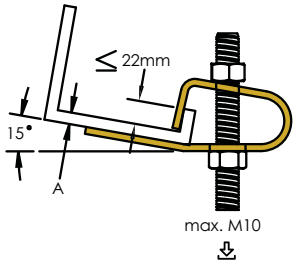




# D2

| | | A (mm) | Ø (mm) | P | | |
|---|---|---|---|---|---|---|
| 339100 | D2 | ≤4.0 | 11 | P1 | 100 | 1200 N |

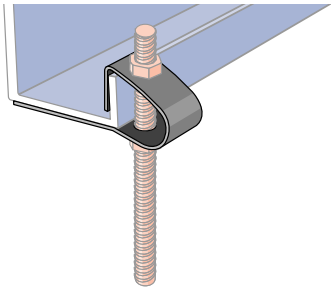




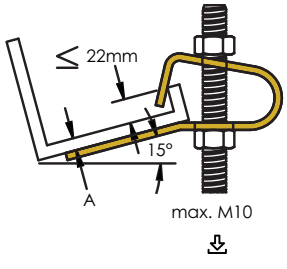



# D3

| | | A (mm) | Ø (mm) | P | | |
|---|---|---|---|---|---|---|
| 339110 | D3 | ≤4.0 | 11 | P1 | 100 | 1200 N |

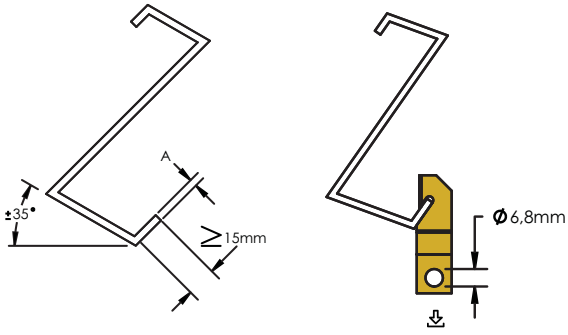






# 122

| | | A (mm) | Ø (mm) | P | | |
|---|---|---|---|---|---|---|
| 171690 | 122 | ≤2.8 | 6,8 | P21 | 100 | 450 N |

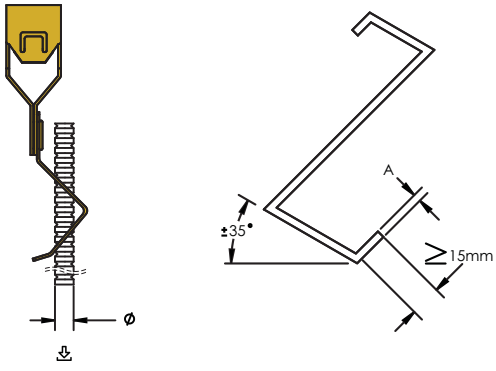







# 122-MA

| | | A (mm) | Ø | P | | |
|---|---|---|---|---|---|---|
| 174680 | 122 M6MA | ≤2.8 | M6 | P21 | 100 | 450 N |
| 174690 | 122 M8MA | ≤2.8 | M8 | P21 | 100 | 450 N |
| 174700 | 122 M10MA | ≤2.8 | M10 | P21 | 100 | 450 N |

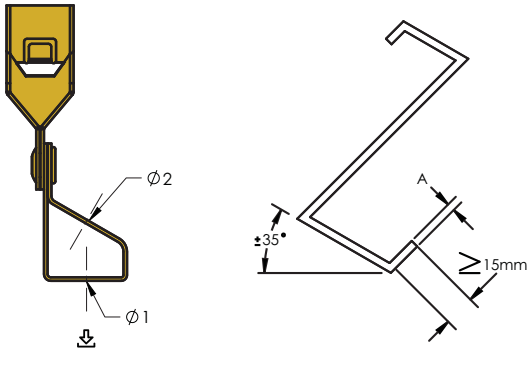







# 122-Ti

| | | A (mm) | Ø 1 | Ø 2 (mm) | P | | |
|---|---|---|---|---|---|---|---|
| 174890 | 122M6Ti | ≤2.8 | M6 | 11x15 | P21 | 100 | 450 N |
| 174980 | 122M8Ti | ≤2.8 | M8 | 11x15 | P21 | 100 | 450 N |
| 175070 | 122M10Ti | ≤2.8 | M10 | 11x15 | P21 | 100 | 450 N |
| 160240 | 122 T10 | ≤2.8 | 11 mm | 11x15 | P21 | 100 | 450 N |

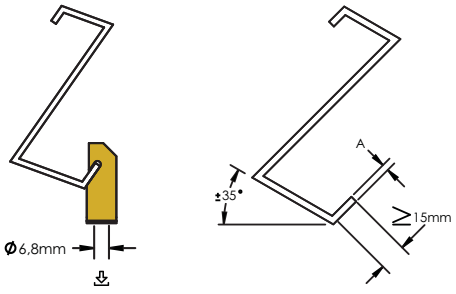







# 123

| | | A (mm) | Ø (mm) | P | | |
|---|---|---|---|---|---|---|
| 171700 | 123 | ≤2.8 | 6,8 | P21 | 100 | 450 N |

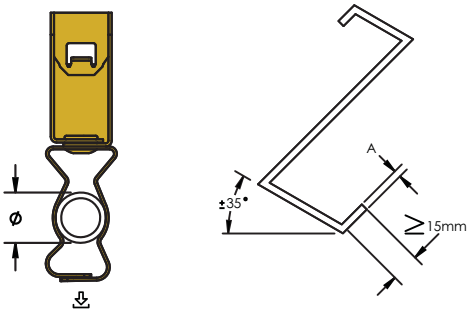


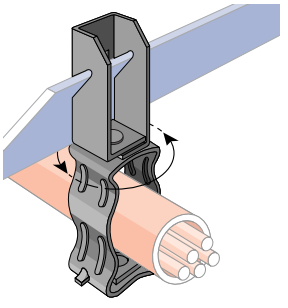





# 123-M

| | | A (mm) | Ø (mm) | P | | |
|---|---|---|---|---|---|---|
| 174760 | 123 6M | ≤2.8 | 14-18 | P21 | 100 | 450 N |
| 160420 | 123 812M | ≤2.8 | 18-30 | P21 | 100 | 450 N |
| 174790 | 123 16M | ≤2.8 | 30-35 | P21 | 100 | 450 N |
| 177760 | 123 20M | ≤2.8 | 35-42 | P21 | 50 | 450 N |



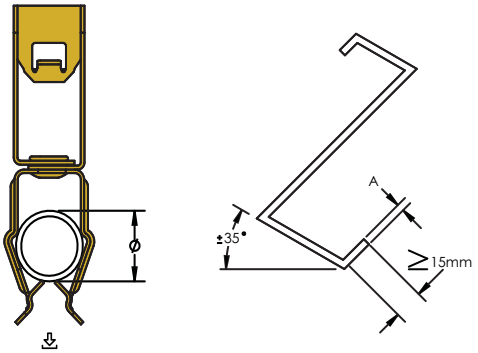



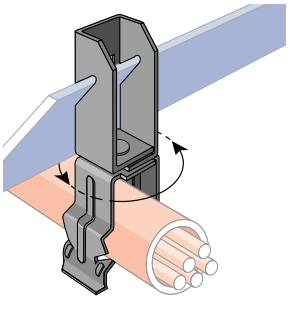




# 123-P

| | | A (mm) | Ø (mm) | P | | |
|---|---|---|---|---|---|---|
| 176720 | 123 8P | ≤2.8 | 18-22 | P21 | 100 | 110 N |
| 176730 | 123 12P | ≤2.8 | 22-30 | P21 | 100 | 110 N |
| 176740 | 123 16P | ≤2.8 | 30-35 | P21 | 50 | 110 N |



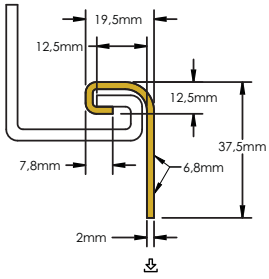







# PW2

| | | Ø (mm) | P | | |
|---|---|---|---|---|---|
| 175590 | PW2 | 6,8 | P21 | 100 | 700 N |

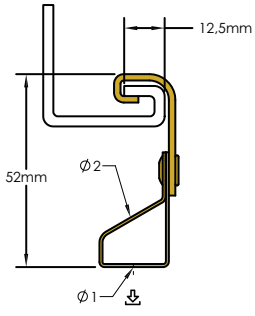







# PW2 Ti/T IN

| | | Ø 1 | Ø 2 (mm) | P | | |
|---|---|---|---|---|---|---|
| 175600 | PW2M6Ti IN | M6 | 11x15 | P21 | 100 | 700 N |
| 175610 | PW2M8Ti IN | M8 | 11x15 | P21 | 100 | 700 N |
| 175620 | PW2M10Ti IN | M10 | 11x15 | P21 | 100 | 700 N |
| 175630 | PW2T10Ti IN | 11 mm | 11x15 | P21 | 100 | 700 N |

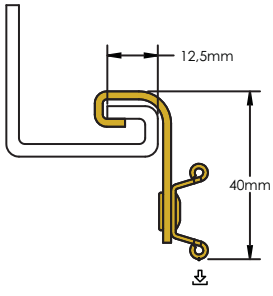







# PW2-CT

| | | P | | |
|---|---|---|---|---|
| 175690 | PW2-CT | P21 | 100 | 700 N |

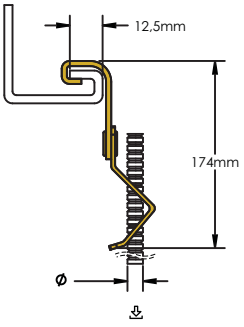







# PW2-MA

| | | Ø | P | | |
|---|---|---|---|---|---|
| 175730 | PW2 M6MA | M6 | P21 | 100 | 600 N |
| 175740 | PW2 M8MA | M8 | P21 | 100 | 700 N |
| 175750 | PW2 M10MA | M10 | P21 | 100 | 700 N |

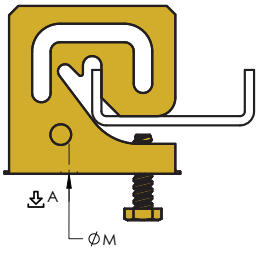


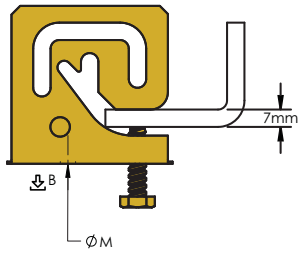





# PH/PHSW

| | | Fig. # | Ø | P | | A | B |
|---|---|---|---|---|---|---|---|
| 182150 | PH6M | 1 | M6 | P1 | 25 | 900 N | 650 N |
| 182160 | PH8M | 1 | M8 | P1 | 25 | 900 N | 650 N |
| 182170 | PH10M | 1 | M10 | P1 | 25 | 900 N | 650 N |
| 182180 | PHSW6M | 2 | M6 | P1 | 25 | 900 N | 650 N |
| 182190 | PHSW8M | 2 | M8 | P1 | 25 | 900 N | 650 N |
| 182200 | PHSW10M | 2 | M10 | P1 | 25 | 900 N | 650 N |



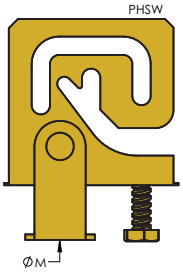







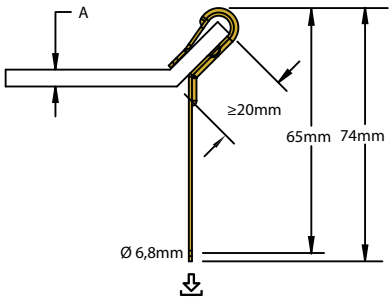

Fig. #1



Fig. #2

# AF14

| | | A (mm) | P | | |
|---|---|---|---|---|---|
| 179860 | AF14 | 1.5 - 6.0 | P21 | 100 | 350 N |

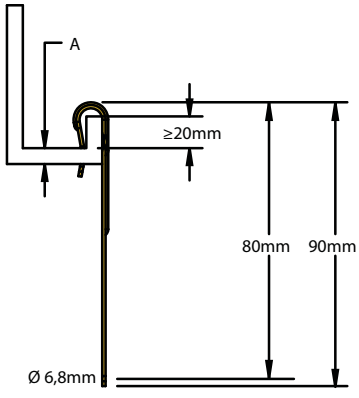







# VF14

| | | A (mm) | P | | |
|---|---|---|---|---|---|
| 179850 | VF14 | 1.5 - 6.0 | P21 | 100 | 600 N |








# VAFT

| | | |
|---|---|---|
| 190330 | VAFT | 1 |

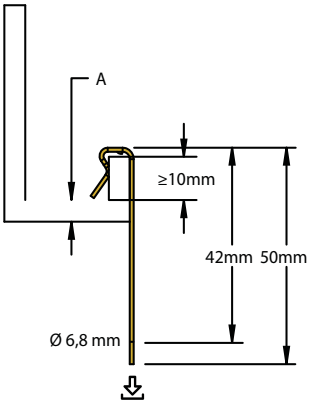


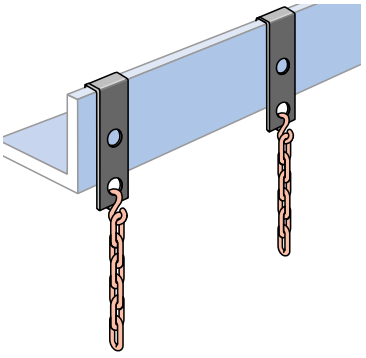




# J

| | | A (mm) | P | | | |
|---|---|---|---|---|---|---|
| 170370 | J1 | 1.5 - 4.0 | P21 | 100 | - | 700 N |
| 171590 | J2 | 4.0 - 6.5 | P21 | 100 | - | 700 N |
| 172440 | J1 | 1.5 - 4.0 | P21 | 250 | 10x25 | 700 N |

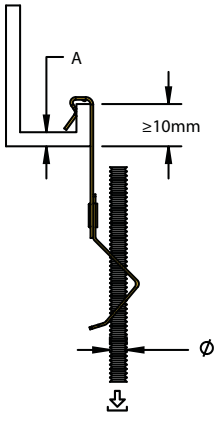




# J-MA

| | | A (mm) | Ø | P | | |
|---|---|---|---|---|---|---|
| 173350 | M6MAJ1 | 1.5 - 4.0 | M6 | P21 | 100 | 600 N |
| 173360 | M8MAJ1 | 1.5 - 4.0 | M8 | P21 | 100 | 700 N |
| 173370 | M10MAJ1 | 1.5 - 4.0 | M10 | P21 | 100 | 700 N |
| 173380 | M6MAJ2 | 4.0 - 6.5 | M6 | P21 | 100 | 600 N |
| 173390 | M8MAJ2 | 4.0 - 6.5 | M8 | P21 | 100 | 700 N |
| 173400 | M10MAJ2 | 4.0 - 6.5 | M10 | P21 | 100 | 700 N |



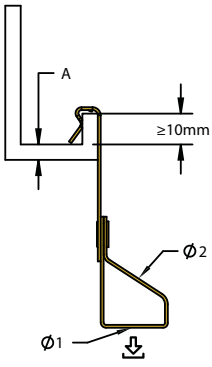





# J-Ti/T

| | | A (mm) | Ø 1 | Ø 2 (mm) | P | | | |
|---|---|---|---|---|---|---|---|---|
| 174870 | M6TiJ1 | 1.5 - 4.0 | M6 | 11x15 | P21 | 100 | - | 700 N |
| 174960 | M8TiJ1 | 1.5 - 4.0 | M8 | 11x15 | P21 | 100 | - | 700 N |
| 175050 | M10TiJ1 | 1.5 - 4.0 | M10 | 11x15 | P21 | 100 | - | 700 N |
| 174880 | M6TiJ2 | 4.0 - 6.5 | M6 | 11x15 | P21 | 100 | - | 700 N |
| 174970 | M8TiJ2 | 4.0 - 6.5 | M8 | 11x15 | P21 | 100 | - | 700 N |
| 175060 | M10TiJ2 | 4.0 - 6.5 | M10 | 11x15 | P21 | 100 | - | 700 N |
| 160220 | T10J1 | 1.5 - 4.0 | 11 mm | 11x15 | P21 | 100 | - | 700 N |
| 160230 | T10J2 | 4.0 - 6.5 | 11 mm | 11x15 | P21 | 100 | - | 700 N |
| | | | | | | | | |
| 172190 | T10J1 | 1.5 - 4.0 | 11 mm | 11x15 | P21 | 250 | 10x25 | 700 N |







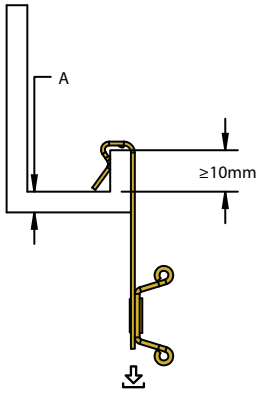

# J-CT/CTB

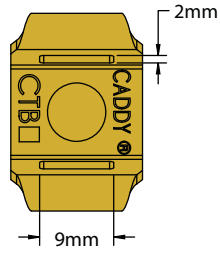
| | | Fig. # | A (mm) | P | | |
|---|---|---|---|---|---|---|
| 170610 | J1CT | 1 | 1.5 - 4.0 | P21 | 50 | 150 N |
| 170410 | J1CTBB | 2 | 1.5 - 4.0 | P21 | 100 | 150 N |
| 170360 | J1CTBW | 3 | 1.5 - 4.0 | P21 | 100 | 150 N |
| 170350 | J2CT | 1 | 4.0 - 6.5 | P21 | 50 | 150 N |
| 170440 | J2CTBB | 2 | 4.0 - 6.5 | P21 | 100 | 150 N |
| 170390 | J2CTBW | 3 | 4.0 - 6.5 | P21 | 100 | 150 N |


Fig. #1


Fig. #2


Fig. #3

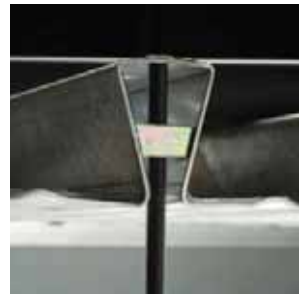


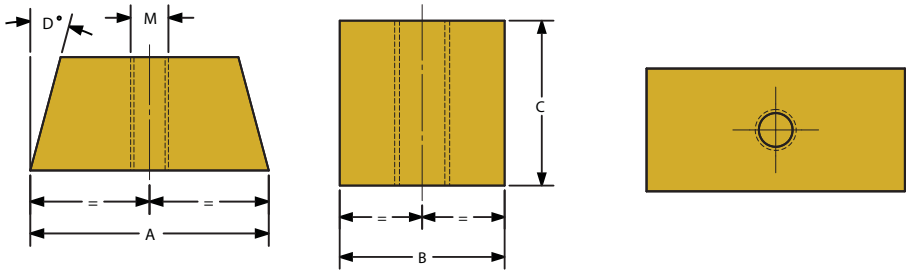



# HW

| | | A (mm) | B (mm) | C (mm) | M | d° | P | |
|---|---|---|---|---|---|---|---|---|
| 187260 | HW4 | 25 | 12 | 12 | M4 | 15° | P1 | 100 |
| 187270 | HW6 | 25 | 12 | 12 | M6 | 15° | P1 | 100 |
| 187280 | HW8 | 25 | 12 | 12 | M8 | 15° | P1 | 100 |
| 187290 | HW10 | 25 | 12 | 12 | M10 | 15° | P1 | 100 |
| 187300 | HW12 | 25 | 16 | 16 | M12 | 15° | P1 | 100 |
| | | | | | | | | |
| 188770 | HW6ST | 25 | 10 | 9.5 | M6 | 15° | P1 | 100 |
| 188810 | HW8ST | 25 | 10 | 9.5 | M8 | 15° | P1 | 100 |
| | | | | | | | | |
| 188720 | HW4M | 19 | 10 | 9.5 | M4 | 15° | P1 | 100 |
| 188740 | HW6M | 19 | 10 | 9.5 | M6 | 15° | P1 | 100 |
| 188780 | HW8M | 19 | 10 | 9.5 | M8 | 15° | P1 | 100 |
| | | | | | | | | |
| 188830 | PHW4 | 18 | 10 | 9.5 | M4 | 25° | P1 | 100 |
| 188840 | PHW6 | 18 | 10 | 9.5 | M6 | 25° | P1 | 100 |
| 188850 | PHW8 | 18 | 10 | 9.5 | M8 | 25° | P1 | 100 |
| | | | | | | | | |
| 196240 | PHWC6 | 18 | 9.5 | 9.5 | M6 | 25° | P1 | 100 |
| 196260 | PHWC8 | 18 | 9.5 | 9.5 | M8 | 25° | P1 | 100 |



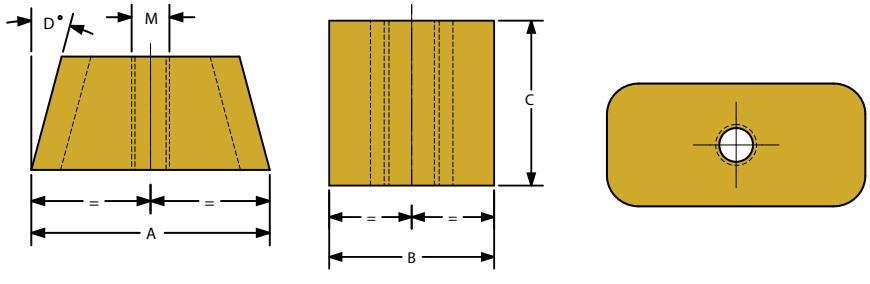





# HW-SR

| | | A (mm) | B (mm) | C (mm) | M | d° | P | |
|---|---|---|---|---|---|---|---|---|
| 188760 | HW6SR | 21 | 13 | 10 | M6 | 12° | P1 | 100 |
| 188800 | HW8SR | 21 | 13 | 10 | M8 | 12° | P1 | 100 |
| 188820 | HW10SR | 21 | 13 | 10 | M10 | 12° | P1 | 100 |



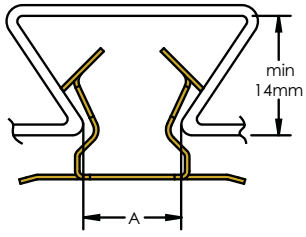


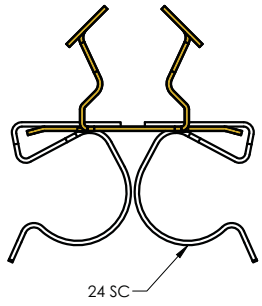
# SCD

| | | A (mm) | P | |
|---|---|---|---|---|
| 188170 | SCD12-17 | 12 - 17 | P21 | 100 |
| 188180 | SCD17-22 | 17 - 22 | P21 | 100 |







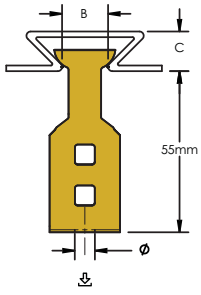


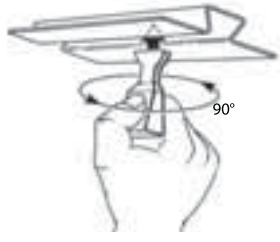

# GTD

| | | B (mm) | C (mm) | Ø | P | | |
|---|---|---|---|---|---|---|---|
| 160320 | M6GTD12-17 | 12 - 17 | >14 | M6 | P21 | 100 | 600 N |
| 160330 | M8GTD12-17 | 12 - 17 | >14 | M8 | P21 | 100 | 900 N |
| 160340 | M10GTD12-17 | 12 - 17 | >14 | M10 | P21 | 100 | 900 N |
| 160380 | 10GTD12-17 | 12 - 17 | >14 | 10.5 mm | P21 | 100 | 900 N |
| 160350 | M6GTD17-22 | 17 - 22 | >16 | M6 | P21 | 100 | 600 N |
| 160360 | M8GTD17-22 | 17 - 22 | >16 | M8 | P21 | 100 | 900 N |
| 160370 | M10GTD17-22 | 17 - 22 | >16 | M10 | P21 | 100 | 900 N |
| 160390 | 10GTD17-22 | 17 - 22 | >16 | 10.5 mm | P21 | 100 | 900 N |



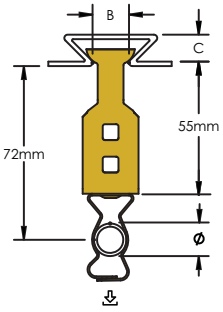


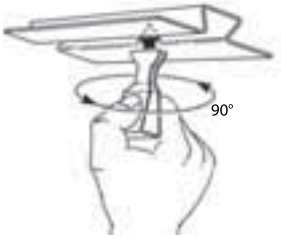


# GTD-M

| | | B (mm) | C (mm) | Ø (mm) | P | | |
|---|---|---|---|---|---|---|---|
| 160400 | 812MGTD12-17 | 12 - 17 | >14 | 18-30 | P21 | 50 | 450 N |
| 160410 | 812MGTD12-22 | 17 - 22 | >16 | 18-30 | P21 | 50 | 450 N |



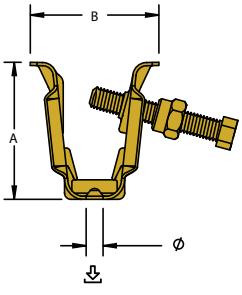








# UDH

| | | A (mm) | B (mm) | Ø | P | | |
|---|---|---|---|---|---|---|---|
| 187302 | UDHM6 | 51 | 34 - 60 | M6 | P21 | 50 | 1500 N |
| 187303 | UDHM8 | 51 | 34 - 60 | M8 | P21 | 50 | 1500 N |
| 187304 | UDHM10 | 51 | 34 - 60 | M10 | P21 | 50 | 1500 N |

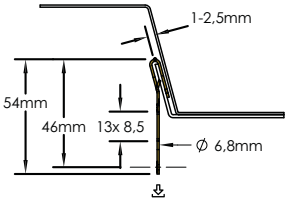


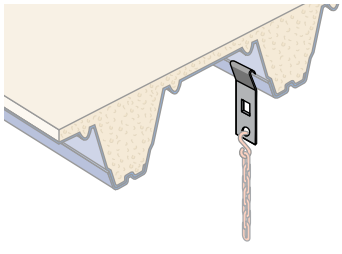





# OCDC

| | | Ø (mm) | P | | |
|---|---|---|---|---|---|
| 160700 | OCDC | 6.8 | P21 | 100 | 400 N |

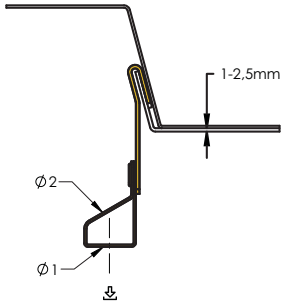




# OCDC-TI/T

| | | Ø 1 | Ø 2 (mm) | P | | |
|---|---|---|---|---|---|---|
| 160710 | M6TiOCDC | M6 | 11x15 | P21 | 100 | 400 N |
| 160720 | M8TiOCDC | M8 | 11x15 | P21 | 100 | 400 N |
| 160730 | M10TiOCDC | M10 | 11x15 | P21 | 100 | 400 N |
| 160740 | T100CDC | 11 mm | 11x15 | P21 | 100 | 400 N |



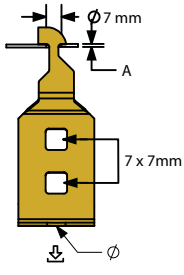


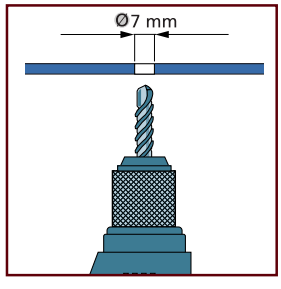

# VKR

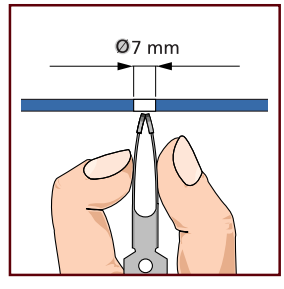
| | | A (mm) | Ø | P | | | |
|---|---|---|---|---|---|---|---|
| 160640 | M6VKR | 0.8 - 2.0 | M6 | P21 | 100 | - | 450 N |
| | | 2.0 - 3.0 | | | | | 600 N |
| 160650 | M8VKR | 0.8 - 2.0 | M8 | P21 | 100 | - | 450 N |
| | | 2.0 - 3.0 | | | | | 900 N |
| 160660 | M10VKR | 0.8 - 2.0 | M10 | P21 | 100 | - | 450 N |
| | | 2.0 - 3.0 | | | | | 900 N |
| 175800 | M6VKR | 0.8 - 2.0 | M6 | P21 | 250 | 10x25 | 450 N |
| | | 2.0 - 3.0 | | | | | 900 N |
| 175810 | M8VKR | 0.8 - 2.0 | M8 | P21 | 250 | 10x25 | 450 N |
| | | 2.0 - 3.0 | | | | | 900 N |
| 175820 | M10VKR | 0.8 - 2.0 | M10 | P21 | 250 | 10x25 | 450 N |
| | | 2.0 - 3.0 | | | | | 900 N |





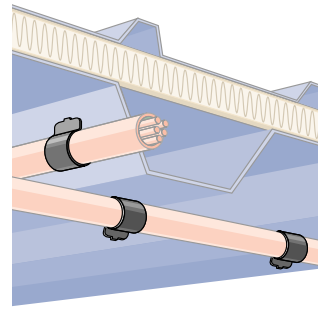


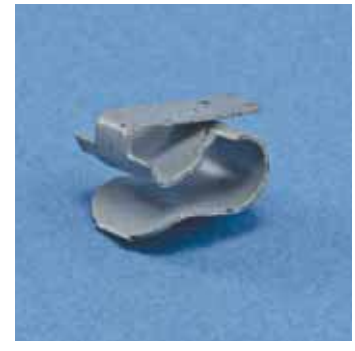



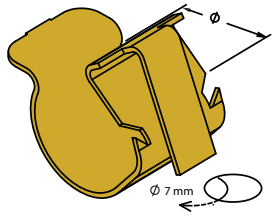




# HSC

| | | Ø (mm) | P | |
|---|---|---|---|---|
| 186000 | HSC67 | 6-7 | P21 | 100 |
| 187740 | HSC78 | 7-8 | P21 | 100 |
| 186010 | HSC89 | 8-9 | P21 | 100 |
| 187780 | HSC910 | 9-10 | P21 | 100 |
| 186020 | HSC1011 | 10-11 | P21 | 100 |
| 186030 | HSC1214 | 12-14 | P21 | 100 |
| 186040 | HSC1518 | 15-18 | P21 | 100 |
| 186050 | HSC1924 | 19-24 | P21 | 100 |
| 186060 | HSC2530 | 25-32 | P21 | 100 |



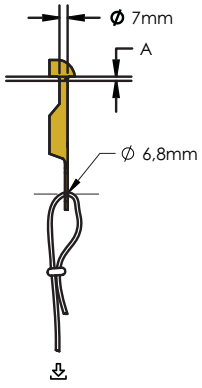





EBC, EM, EER, H, J1, J2, AF14, VF14, 122, 123, TDH, OCDC, PW2, PCS, Z, ESC, 4H24Di

# EER

| | | A (mm) | P | | | |
|---|---|---|---|---|---|---|
| 171470 | EER | 0.8 - 2.0 | P21 | 100 | - | 450 N |
| | | 2.0 - 3.0 | | | | 900 N |
| 172200 | EER | 0.8 - 2.0 | P21 | 250 | 10x25 | 450 N |
| | | 2.0 - 3.0 | | | | 900 N |

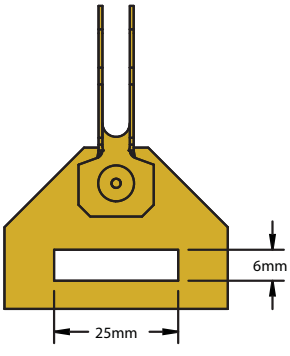


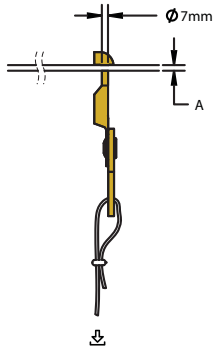


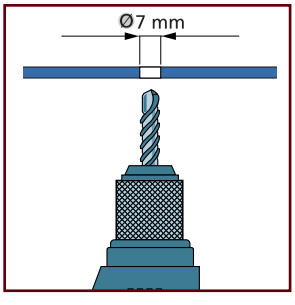


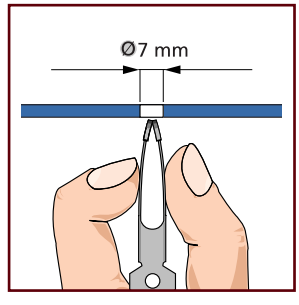

# EERS

| | | A (mm) | P | | |
|---|---|---|---|---|---|
| 173080 | EERS | 0.8 - 2.0 | P21 | 100 | 450 N |
| | | 2.0 - 3.0 | | | 900 N |





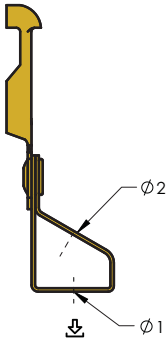


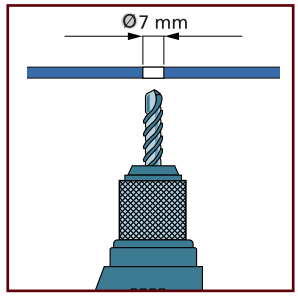

# EER-TiT

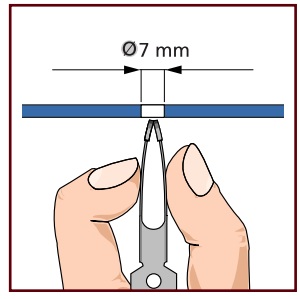
| | | A (mm) | Ø 1 | Ø 2 (mm) | P | | |
|---|---|---|---|---|---|---|---|
| 173120 | EERM6Ti | 0.8 - 2.0 | M6 | 11x15 | P21 | 100 | 450 N |
| | | 2.0 - 3.0 | | | | | 900 N |
| 173130 | EERM8Ti | 0.8 - 2.0 | M8 | 11x15 | P21 | 100 | 450 N |
| | | 2.0 - 3.0 | | | | | 900 N |
| 173140 | EERM10Ti | 0.8 - 2.0 | M10 | 11x15 | P21 | 100 | 450 N |
| | | 2.0 - 3.0 | | | | | 900 N |
| 160250 | EERT10 | 0.8 - 2.0 | 11 mm | 11x15 | P21 | 100 | 450 N |
| | | 2.0 - 3.0 | | | | | 900 N |







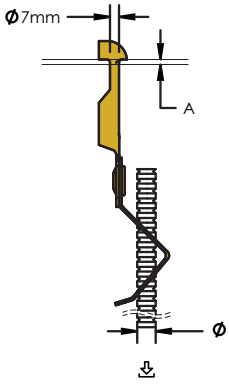




# EER-MA

| | | A (mm) | Ø | P | | |
|---|---|---|---|---|---|---|
| 173170 | EERM6MA | 0.8 - 2.0 | M6 | P21 | 100 | 450 N |
| | | 2.0 - 3.0 | | | | 600 N |
| 173180 | EERM8MA | 0.8 - 2.0 | M8 | P21 | 100 | 450 N |
| | | 2.0 - 3.0 | | | | 700 N |
| 173190 | EERM10MA | 0.8 - 2.0 | M10 | P21 | 100 | 450 N |
| | | 2.0 - 3.0 | | | | 700 N |

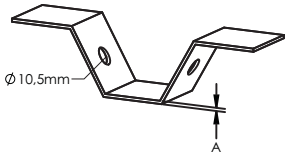






# TDH

| | | Ø (mm) | P | |
|---|---|---|---|---|
| 179920 | TDH | 14 | P21 | 50 |

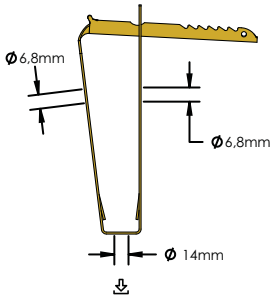


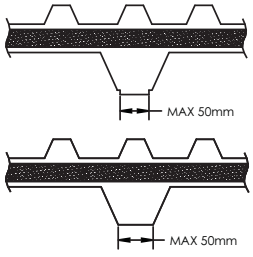






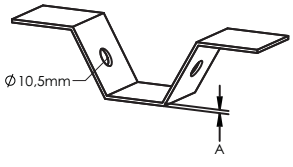

| A (mm) | |
|---|---|
| 0,63-0,70 | 600 N |
| 0,70-0,80 | 700 N |
| 0,80-1,00 | 800 N |
| 1,00-1,20 | 1000 N |
| 1,20-1,50 | 1200 N |
| >1,50 | 1500 N |




# TDH-M

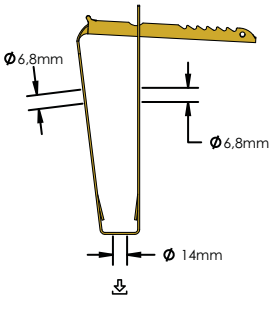
| | | Ø (mm) | P | |
|---|---|---|---|---|
| 179930 | TDHM6 | M6 | P21 | 50 |
| 179940 | TDHM8 | M8 | P21 | 50 |
| 179950 | TDHM10 | M10 | P21 | 50 |

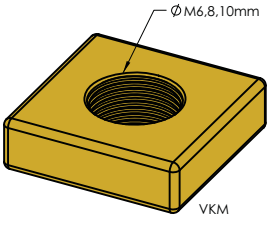


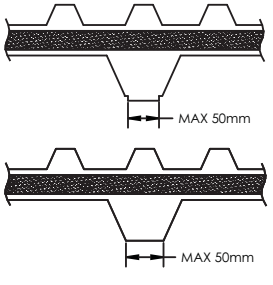





| A (mm) | |
|---|---|
| 0,63-0,70 | 600 N |
| 0,70-0,80 | 700 N |
| 0,80-1,00 | 800 N |
| 1,00-1,20 | 1000 N |
| 1,20-1,50 | 1200 N |
| >1,50 | 1500 N |

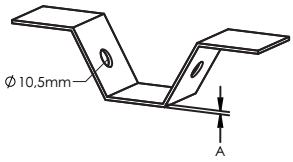


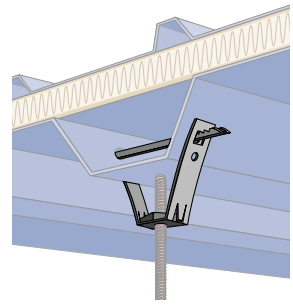



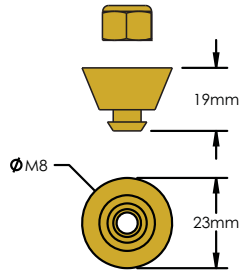
# TDH-I

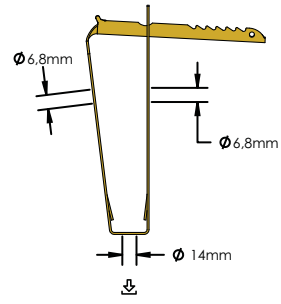
| | | Ø | P | | |
|---|---|---|---|---|---|
| 179510 | TDHiM8 | M8 | P21 | 50 | 200 N |

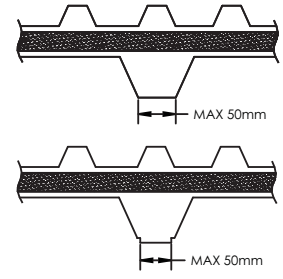




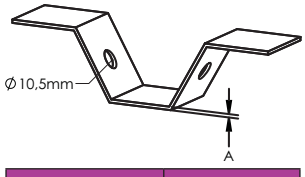


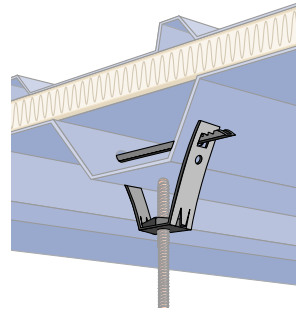




# TDHA

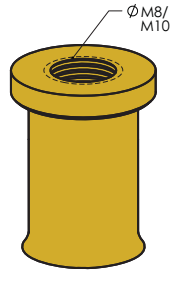
| Ø (mm) | | P | |
|---|---|---|---|
| 179945 | TDHAM8 | M8 | P21 | 50 |
| 179955 | TDHAM10 | M10 | P21 | 50 |

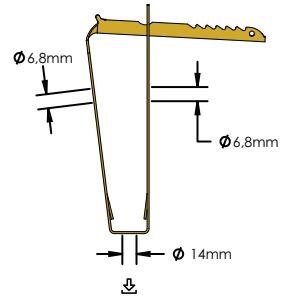


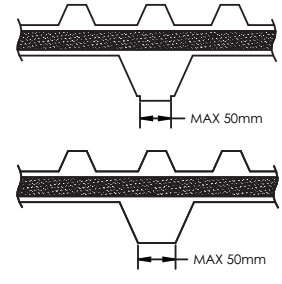

| A (mm) | |
|---|---|
| 0,63-0,70 | 600 |
| 0,70-0,80 | 700 |
| 0,80-1,00 | 800 |
| 1,00-1,20 | 1000 |
| 1,20-1,50 | 1200 |
| >1,50 | 1500 |





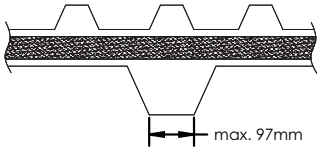


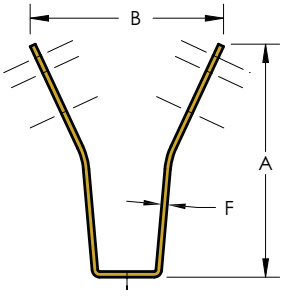



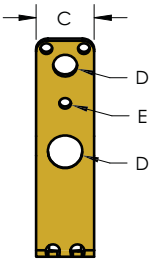



# TBHG

| | | Fig. # | Ø (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | P | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 597586 | TBH G DG 10,5 | 1 | 10,5 | 120 | 100 | 25 | 11 | 6 | 2,5 | P1 | 50 |
| 597587 | TBH G M8 | 2 | M8 | 120 | 100 | 25 | 11 | 6 | 2,5 | P1 | 50 |
| 597588 | TBH G M10 | 2 | M10 | 120 | 100 | 25 | 11 | 6 | 2,5 | P1 | 50 |



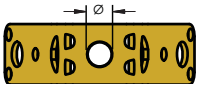



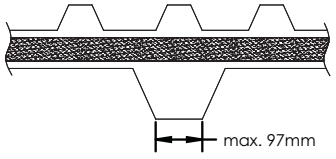


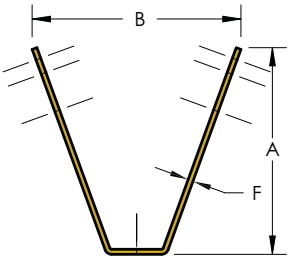
Fig. #1

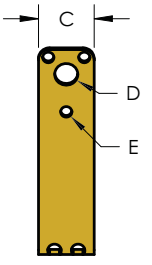

Fig. #2

# TBHK

| | | Fig. # | Ø (mm) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | P | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 597581 | TBH K DG 10,5 | 1 | 10,5 | 91,5 | 97 | 25 | 10,5 | 6 | 2,5 | P1 | 50 |
| 597582 | TBH K M8 | 2 | M8 | 91,5 | 97 | 25 | 10,5 | 6 | 2,5 | P1 | 50 |
| 597583 | TBH K M10 | 2 | M10 | 91,5 | 97 | 25 | 10,5 | 6 | 2,5 | P1 | 50 |
| 597584 | TBH K AM8 | 3 | M8 | 91,5 | 97 | 25 | 10,5 | 6 | 2,5 | P1 | 50 |
| 597585 | TBH K AM10 | 3 | M10 | 91,5 | 97 | 25 | 10,5 | 6 | 2,5 | P1 | 50 |



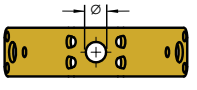





Fig. #1


Fig. #2


Fig. #3

# TDHP MK2

| | | Fig. # | |
|---|---|---|---|
| 159441 | TDHP MK2 | 1 | 1 |
| 159442 | TDHP MK2 BS | 2 | 1 |

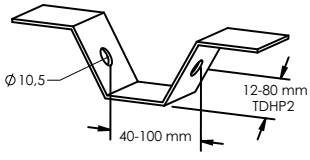







Fig. #1



Fig. #2

