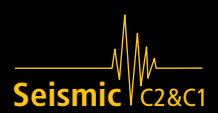


TEMBO GLOBAL INDUSTRIES LIMITED

Your Go-To Support System



**FASTENERS AND
FIXING SYSTEMS**



APPROVALS

Quality Guarantee

Our desire to improve and to certify the quality of our offer in order to fully respond to the needs of our customers drives us to increasingly widen our range of certified products.

The assessment processes are performed by prestigious institutions which guarantee that our products fulfill the highest possible standards of quality and technical requirements

Certified Quality

We guarantee quality through certifications and approvals from independent laboratories and the main official bodies.



European Conformity



European Technical Assessment



Fire Resistance

Fire Resistance



Seismic Assessment





INTRODUCTION

TEMBO GLOBAL INDUSTRIES LTD is an industrial powerhouse with a dominant presence in manufacturing and fabrication of structural supports used in pipe support systems, seismic bracings and HVAC anti vibration systems. We are consistently expanding our capabilities and encouraging research and development in order to incorporate new products and strengthen our product line while maintaining high quality standards.





TEMBO GLOBAL INDUSTRIES LIMITED

PRODUCT MATERIALS



Galvanized



Stainless steel A2



Stainless steel A4



Zinc plated



Sherardized

USE MATERIALS



Hollow brick



Solid brick



Hollow core slabs



Stone



Hollow concrete



Concrete



Reinforced concrete



Cracked concrete



Aerated concrete



Drywall



PVC pipe



Cooper pipe



Steel pipe

LOADS



Light loads



Medium loads



Heavy loads











Extra-heavy loads



TEMBO GLOBAL INDUSTRIES LIMITED

INDEX

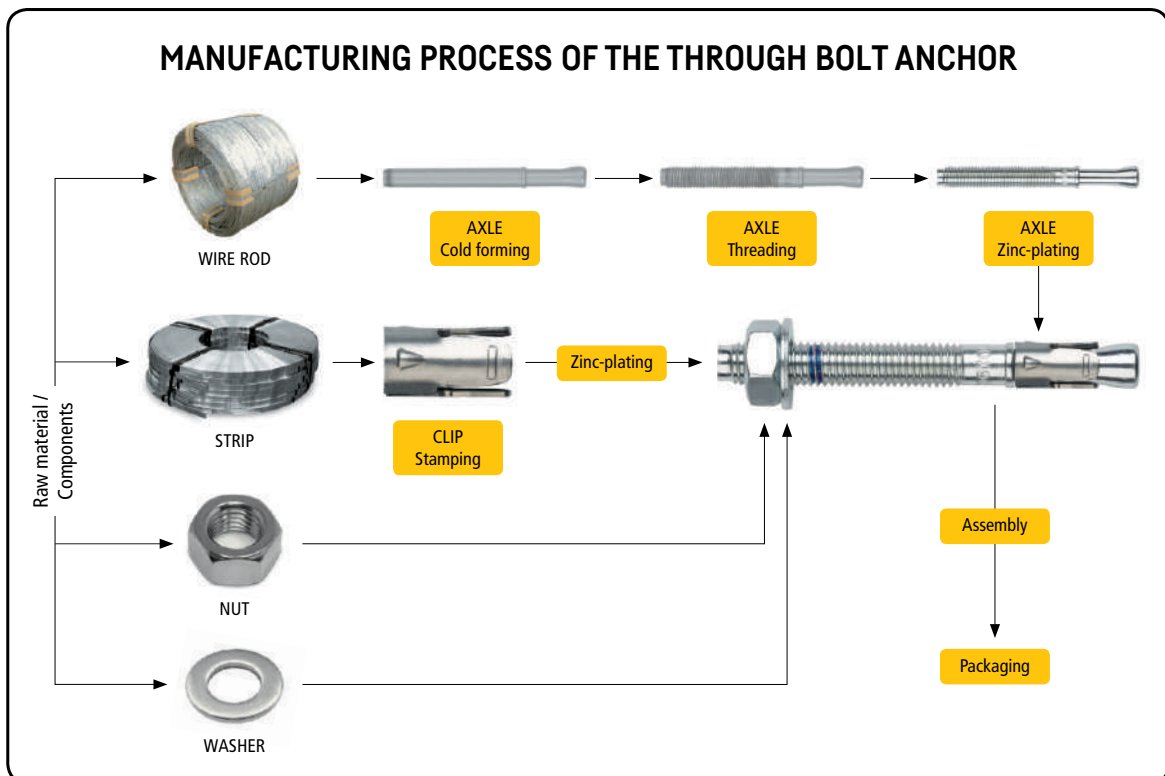
| THROUGH BOLT ANCHOR | | PG. No. |
|---|--|---------|
| Option 1 ETA Assessed |  | 9 |
| Sherardized shaft. Option 1 ETA Assessed. A4 Stainless clip |  | 10 |
| Option 1 ETA Assessed. Zinc-plated shaft. A4 Stainless clip |  | 11 |
| Option 7 Zinc-plated shaft. Zinc-plated clip |  | 12 |
| Zinc-plated shaft. Zinc-plated clip |  | 13-14 |
| Inches. Zinc plated wedgebolt. Zinc plated clip |  | 15 |

| DROP IN ANCHOR | | PG. No. |
|-----------------------|--|---------|
| Option 7 ETA Assessed |  | 18 |
| Option 7 ETA Assessed |  | 19 |



TEMBO GLOBAL INDUSTRIES LIMITED

THROUGH BOLT ANCHOR

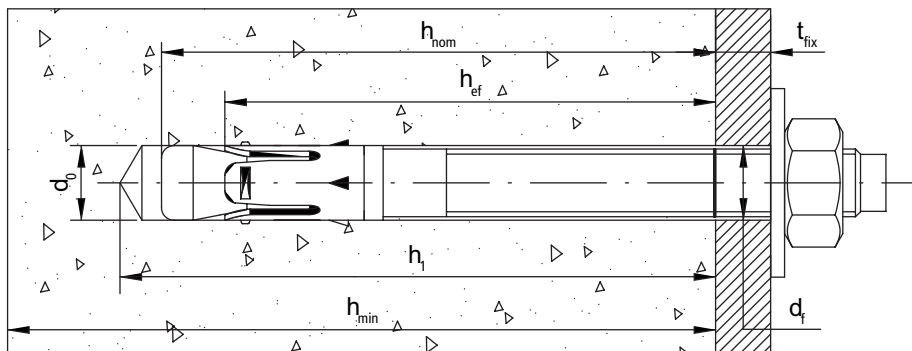




TEMBO GLOBAL INDUSTRIES LIMITED

RANGE

| PRODUCT | PICTURE | ASSESSMENT | METRIC/ INCHES | MAT. | BASE MATERIALS | LOADS |
|---|---------|------------|-------------------|------|----------------|-------|
| Option 1 ETA Assessed | | | METRIC | Zn | | |
| Sherardized shaft. Option 1 ETA Assessed. A4 Stainless clip | | | METRIC | Sh | | |
| Option 1 ETA Assessed. Zinc-plated shaft. A4 Stainless clip | | | METRIC | Zn | | |
| Option 7 Zinc-plated shaft. Zinc-plated clip | | | METRIC | Zn | | |
| Zinc-plated shaft. Zinc-plated clip | | | METRIC | Zn | | |
| Inches. Zinc plated wedgebolt. Zinc plated clip | | | INCHES | Zn | | |





TEMBO GLOBAL INDUSTRIES LIMITED

THROUGH BOLT ANCHOR

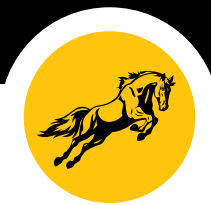
Option 1 ETA Assessed



| PRODUCT CODE | SIZE | UNIT BOX | UNIT MASTER BOX | UNIT PALLET | HOLE DEPTH MIN. "F" | TORQUE (NM) | MIN. SUBSTRATE THICKNESS "hmin" | MAX. FIXTURE THICKNESS "tfix" |
|--------------|-----------|----------|-----------------|-------------|---------------------|-------------|---------------------------------|-------------------------------|
| TGTBA08050 | M8 x 50 | 100 | 800 | 43,200 | 40 | 15 | 100 | 2 |
| TGTBA08075 | M8 x 75 | 100 | 600 | 21,600 | 60 | 15 | 100 | 9 |
| TGTBA08095 | M8 x 95 | 100 | 600 | 21,600 | 60 | 15 | 100 | 29 |
| TGTBA08115 | M8 x 115 | 100 | 400 | 14,400 | 60 | 15 | 100 | 49 |
| TGTBA01090 | M10 x 90 | 100 | 400 | 14,400 | 75 | 40 | 120 | 10 |
| TGTBA10105 | M10 x 105 | 50 | 300 | 10,800 | 75 | 40 | 120 | 25 |
| TGTBA10115 | M10 x 115 | 50 | 200 | 7,200 | 75 | 40 | 120 | 35 |
| TGTBA10135 | M10 x 135 | 50 | 200 | 7,200 | 75 | 40 | 120 | 55 |
| TGTBA10165 | M10 x 165 | 50 | 200 | 7,200 | 75 | 40 | 120 | 85 |
| TGTBA10185 | M10 x 185 | 50 | 150 | 5,400 | 75 | 40 | 120 | 105 |
| TGTBA12080 | M12 x 80 | 50 | 300 | 10,800 | 65 | 60 | 100 | 4 |
| TGTBA12100 | M12 x 100 | 50 | 200 | 10,800 | 85 | 60 | 140 | 4 |
| TGTBA12110 | M12 x 110 | 50 | 200 | 10,800 | 85 | 60 | 140 | 14 |
| TGTBA12120 | M12 x 120 | 50 | 200 | 7,200 | 85 | 60 | 140 | 24 |
| TGTBA12130 | M12 x 130 | 50 | 200 | 7,200 | 85 | 60 | 140 | 34 |
| TGTBA12150 | M12 x 150 | 50 | 100 | 5,400 | 85 | 60 | 140 | 54 |
| TGTBA12180 | M12 x 180 | 50 | 150 | 5,400 | 85 | 60 | 140 | 84 |
| TGTBA12200 | M12 x 200 | 50 | 150 | 5,400 | 85 | 60 | 140 | 104 |
| TGTBA16145 | M16 x 145 | 25 | 100 | 3,600 | 105 | 100 | 170 | 28 |
| TGTBA16175 | M16 x 175 | 25 | 50 | 3,600 | 105 | 100 | 170 | 58 |
| TGTBA16220 | M16 x 220 | 25 | 50 | 2,700 | 105 | 100 | 170 | 103 |
| TGTBA16250 | M16 x 250 | 25 | 50 | 1,800 | 105 | 100 | 170 | 133 |
| TGTBA20170 | M20 x 170 | 20 | 40 | 2,880 | 125 | 200 | 200 | 32 |
| TGTBA20200 | M20 x 200 | 20 | 40 | 2,160 | 125 | 200 | 200 | 62 |

| | SIZE | MAXIMUM RECOMMENDED LOAD (kN) | | DESIGN LOAD (kN) | |
|-----|------|-------------------------------|------------------|----------------------|------------------|
| | | NON CRACKED CONCRETE | CRACKED CONCRETE | NON CRACKED CONCRETE | CRACKED CONCRETE |
| | | TENSION | M8 | 3.6 | 2.4 |
| M10 | 7.6 | | 4.3 | 10.7 | 6.0 |
| M12 | 11.9 | | 7.6 | 16.7 | 10.7 |
| M16 | 16.7 | | 11.9 | 23.3 | 16.7 |
| M20 | 23.8 | | 14.3 | 33.3 | 20.0 |

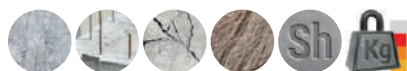
| | SIZE | MAXIMUM RECOMMENDED LOAD (kN) | | DESIGN LOAD (kN) | |
|-----|------|-------------------------------|------------------|----------------------|------------------|
| | | NON CRACKED CONCRETE | CRACKED CONCRETE | NON CRACKED CONCRETE | CRACKED CONCRETE |
| | | SHEAR | M8 | 6.3 | 6.3 |
| M10 | 9.9 | | 9.9 | 13.9 | 13.9 |
| M12 | 14.5 | | 14.5 | 20.2 | 20.2 |
| M16 | 26.9 | | 26.9 | 37.7 | 37.7 |
| M20 | 41.8 | | 41.8 | 58.5 | 58.5 |



TEMBO GLOBAL INDUSTRIES LIMITED

THROUGH BOLT ANCHOR

Sherardized shaft.
Option 1 ETA Assessed.
A4 Stainless clip



| PRODUCT CODE | SIZE | UNIT BOX | UNIT MASTER BOX | UNIT PALLET | HOLE DEPTH MIN. "P" | TORQUE (NM) | MIN. SUBSTRATE THICKNESS "t _{min} " | MAX. FIXTURE THICKNESS "t _{fix} " |
|---------------|-----------|----------|-----------------|-------------|---------------------|-------------|--|--|
| TGTBAFSS06060 | M6 x 60 | 200 | 1200 | 43,200 | 50 | 7 | 100 | 10 |
| TGTBAFSS06070 | M6 x 70 | 200 | 1200 | 43,200 | 50 | 7 | 100 | 20 |
| TGTBAFSS06100 | M6 x 100 | 200 | 800 | 43,200 | 50 | 7 | 100 | 50 |
| TGTBAFSS08050 | M8 x 50 | 100 | 800 | 43,200 | 40 | 15 | 100 | 2 |
| TGTBAFSS08060 | M8 x 60 | 100 | 800 | 43,200 | 40 | 15 | 100 | 12 |
| TGTBAFSS08075 | M8 x 75 | 100 | 600 | 21,600 | 60 | 15 | 100 | 9 |
| TGTBAFSS08095 | M8 x 95 | 100 | 600 | 21,600 | 60 | 15 | 100 | 29 |
| TGTBAFSS08115 | M8 x 115 | 100 | 400 | 14,400 | 60 | 15 | 100 | 49 |
| TGTBAFSS10070 | M10 x 70 | 100 | 400 | 21,600 | 60 | 40 | 100 | 5 |
| TGTBAFSS10090 | M10 x 90 | 100 | 400 | 14,400 | 75 | 40 | 120 | 10 |
| TGTBAFSS10105 | M10 x 105 | 50 | 300 | 10,800 | 75 | 40 | 120 | 25 |
| TGTBAFSS10115 | M10 x 115 | 50 | 200 | 7,200 | 75 | 40 | 120 | 35 |
| TGTBAFSS10135 | M10 x 135 | 50 | 200 | 7,200 | 75 | 40 | 120 | 55 |
| TGTBAFSS10165 | M10 x 165 | 50 | 200 | 7,200 | 75 | 40 | 120 | 85 |
| TGTBAFSS10185 | M10 x 185 | 50 | 150 | 5,400 | 75 | 40 | 120 | 105 |
| TGTBAFSS12080 | M12 x 80 | 50 | 300 | 10,800 | 65 | 60 | 100 | 4 |
| TGTBAFSS12110 | M12 x 110 | 50 | 200 | 10,800 | 85 | 60 | 140 | 14 |
| TGTBAFSS12130 | M12 x 130 | 50 | 200 | 10,800 | 85 | 60 | 140 | 34 |
| TGTBAFSS12150 | M12 x 150 | 50 | 100 | 7,200 | 85 | 60 | 140 | 54 |
| TGTBAFSS12180 | M12 x 180 | 50 | 150 | 5,400 | 85 | 60 | 140 | 84 |
| TGTBAFSS12200 | M12 x 200 | 50 | 150 | 5,400 | 85 | 60 | 140 | 104 |
| TGTBAFSS16125 | M16 x 125 | 25 | 100 | 3,600 | 105 | 100 | 170 | 8 |
| TGTBAFSS16145 | M16 x 145 | 25 | 100 | 3,600 | 105 | 100 | 170 | 28 |
| TGTBAFSS16175 | M16 x 175 | 25 | 50 | 3,600 | 105 | 100 | 170 | 58 |
| TGTBAFSS16220 | M16 x 220 | 25 | 50 | 2,700 | 105 | 100 | 170 | 103 |
| TGTBAFSS20170 | M20 x 170 | 20 | 40 | 2,880 | 125 | 200 | 200 | 32 |
| TGTBAFSS20200 | M20 x 200 | 20 | 40 | 2,160 | 125 | 200 | 200 | 62 |

| | SIZE | MAXIMUM RECOMMENDED LOAD (kN) | | DESIGN LOAD (kN) | |
|---------|------|-------------------------------|------------------|----------------------|------------------|
| | | NON CRACKED CONCRETE | CRACKED CONCRETE | NON CRACKED CONCRETE | CRACKED CONCRETE |
| TENSION | M8 | 3.6 | 2.4 | 5.0 | 3.3 |
| | M10 | 7.6 | 4.3 | 10.7 | 6.0 |
| | M12 | 14.3 | 7.6 | 20.0 | 10.7 |
| | M16 | 16.7 | 11.9 | 23.3 | 16.7 |
| | M20 | 23.8 | 14.3 | 33.3 | 20.0 |

| | SIZE | MAXIMUM RECOMMENDED LOAD (kN) | | DESIGN LOAD (kN) | |
|-------|------|-------------------------------|------------------|----------------------|------------------|
| | | NON CRACKED CONCRETE | CRACKED CONCRETE | NON CRACKED CONCRETE | CRACKED CONCRETE |
| SHEAR | M8 | 6.3 | 6.3 | 8.8 | 8.8 |
| | M10 | 9.9 | 9.9 | 13.9 | 13.9 |
| | M12 | 14.5 | 14.5 | 20.2 | 20.2 |
| | M16 | 26.9 | 26.9 | 37.7 | 37.7 |
| | M20 | 41.8 | 41.8 | 58.5 | 58.5 |



TEMBO GLOBAL INDUSTRIES LIMITED

THROUGH BOLT ANCHOR

Option 1 ETA Assessed.
Zinc-plated shaft.
A4 Stainless clip



| PRODUCT CODE | SIZE | UNIT BOX | UNIT MASTER BOX | UNIT PALLET | HOLE DEPTH MIN. "F" | TORQUE (NM) | MIN. SUBSTRATE THICKNESS "h _{min} " | MAX. FIXTURE THICKNESS "t _{fix} " |
|--------------|-----------|----------|-----------------|-------------|---------------------|-------------|--|--|
| TGTBAZS08050 | M8 x 50 | 100 | 800 | 43,200 | 40 | 20 | 100 | 2 |
| TGTBAZS08075 | M8 x 75 | 100 | 600 | 21,600 | 60 | 20 | 100 | 9 |
| TGTBAZS08095 | M8 x 95 | 100 | 600 | 21,600 | 60 | 20 | 100 | 29 |
| TGTBAZS08115 | M8 x 115 | 100 | 400 | 14,400 | 60 | 20 | 100 | 49 |
| TGTBAZS10090 | M10 x 90 | 100 | 400 | 14,400 | 75 | 40 | 120 | 10 |
| TGTBAZS10105 | M10 x 105 | 50 | 300 | 10,800 | 75 | 40 | 120 | 25 |
| TGTBAZS10115 | M10 x 115 | 50 | 200 | 7,200 | 75 | 40 | 120 | 35 |
| TGTBAZS10135 | M10 x 135 | 50 | 200 | 7,200 | 75 | 40 | 120 | 55 |
| TGTBAZS10165 | M10 x 165 | 50 | 200 | 7,200 | 75 | 40 | 120 | 85 |
| TGTBAZS10185 | M10 x 185 | 50 | 150 | 5,400 | 75 | 40 | 120 | 105 |
| TGTBAZS12080 | M12 x 80 | 50 | 300 | 10,800 | 65 | 60 | 100 | 4 |
| TGTBAZS12100 | M12 x 100 | 50 | 400 | 21,600 | 85 | 60 | 140 | 4 |
| TGTBAZS12110 | M12 x 110 | 50 | 200 | 10,800 | 85 | 60 | 140 | 14 |
| TGTBAZS12120 | M12 x 120 | 50 | 200 | 7,200 | 85 | 60 | 140 | 24 |
| TGTBAZS12130 | M12 x 130 | 50 | 200 | 7,200 | 85 | 60 | 140 | 34 |
| TGTBAZS12150 | M12 x 150 | 50 | 100 | 7,200 | 85 | 60 | 140 | 54 |
| TGTBAZS12180 | M12 x 180 | 50 | 150 | 5,400 | 85 | 60 | 140 | 84 |
| TGTBAZS12200 | M12 x 200 | 50 | 150 | 5,400 | 85 | 60 | 140 | 104 |
| TGTBAZS16145 | M16 x 145 | 25 | 100 | 3,600 | 105 | 100 | 170 | 28 |
| TGTBAZS16175 | M16 x 175 | 25 | 50 | 3,600 | 105 | 100 | 170 | 58 |
| TGTBAZS16220 | M16 x 220 | 25 | 50 | 2,700 | 105 | 100 | 170 | 103 |
| TGTBAZS16250 | M16 x 250 | 25 | 50 | 1,800 | 105 | 100 | 170 | 133 |
| TGTBAZS20170 | M20 x 170 | 20 | 40 | 2,880 | 125 | 200 | 200 | 32 |
| TGTBAZS20200 | M20 x 200 | 20 | 40 | 2,160 | 125 | 200 | 200 | 62 |
| TGTBAZS24205 | M24 x 205 | 10 | 30 | 1,080 | 155 | 250 | 250 | 35 |
| TGTBAZS24235 | M24 x 235 | 10 | 20 | 720 | 155 | 250 | 250 | 65 |

| TENSION | SIZE | MAXIMUM RECOMMENDED LOAD (kN) | | DESIGN LOAD (kN) | |
|---------|------|-------------------------------|------------------|----------------------|------------------|
| | | NON CRACKED CONCRETE | CRACKED CONCRETE | NON CRACKED CONCRETE | CRACKED CONCRETE |
| | M8 | 3.5 | 2.0 | 5.0 | 2.7 |
| M10 | 7.6 | 4.2 | 10.6 | 6.0 | |
| M12 | 9.5 | 5.7 | 13.3 | 8 | |
| M16 | 16.6 | 11.9 | 23.3 | 16.6 | |
| M20 | 23.8 | 14.2 | 33.3 | 20.0 | |
| M24 | 19.8 | 11.9 | 27.7 | 16.6 | |

| SHEAR | SIZE | MAXIMUM RECOMMENDED LOAD (kN) | | DESIGN LOAD (kN) | |
|-------|------|-------------------------------|------------------|----------------------|------------------|
| | | NON CRACKED CONCRETE | CRACKED CONCRETE | NON CRACKED CONCRETE | CRACKED CONCRETE |
| | M8 | 6.3 | 6.3 | 8.8 | 8.8 |
| M10 | 9.9 | 9.9 | 13.9 | 13.9 | |
| M12 | 14.4 | 14.4 | 20.2 | 20.2 | |
| M16 | 26.9 | 26.9 | 37.6 | 37.4 | |
| M20 | 41.7 | 41.7 | 58.4 | 58.4 | |
| M24 | 48.4 | 48.4 | 67.7 | 67.7 | |



TEMBO GLOBAL INDUSTRIES LIMITED

THROUGH BOLT ANCHOR

Option 7
Zinc-plated shaft.
Zinc-plated clip



| PRODUCT CODE | SIZE | UNIT BOX | UNIT MASTER BOX | UNIT PALLET | HOLE DEPTH MIN. "F" | TORQUE (NM) | MIN. SUBSTRATE THICKNESS "t _{min} " | MAX. FIXTURE THICKNESS "t _{fix} " |
|--------------|-----------|----------|-----------------|-------------|---------------------|-------------|--|--|
| TGTBAZ06060 | M6 x 60 | 200 | 1200 | 43,200 | 55 | 7 | 100 | 2 |
| TGTBAZ06070 | M6 x 70 | 200 | 1200 | 43,200 | 55 | 7 | 100 | 12 |
| TGTBAZ06080 | M6 x 80 | 200 | 1200 | 43,200 | 55 | 7 | 100 | 22 |
| TGTBAZ06090 | M6 x 90 | 200 | 1200 | 43,200 | 55 | 7 | 100 | 32 |
| TGTBAZ06100 | M6 x 100 | 200 | 800 | 43,200 | 55 | 7 | 100 | 42 |
| TGTBAZ06110 | M6 x 110 | 200 | 800 | 28,800 | 55 | 7 | 100 | 52 |
| TGTBAZ06120 | M6 x 120 | 100 | 600 | 21,600 | 55 | 7 | 100 | 62 |
| TGTBAZ08060 | M8 x 60 | 100 | 600 | 21,600 | 50 | 20 | 100 | 3 |
| TGTBAZ08075 | M8 x 75 | 100 | 600 | 21,600 | 65 | 20 | 100 | 5 |
| TGTBAZ08090 | M8 x 90 | 100 | 600 | 21,600 | 65 | 20 | 100 | 20 |
| TGTBAZ08100 | M8 x 100 | 100 | 400 | 14,400 | 65 | 20 | 100 | 30 |
| TGTBAZ08115 | M8 x 115 | 100 | 400 | 14,400 | 65 | 20 | 100 | 45 |
| TGTBAZ08120 | M8 x 120 | 100 | 400 | 14,400 | 65 | 20 | 100 | 50 |
| TGTBAZ08130 | M8 x 130 | 100 | 400 | 14,400 | 65 | 20 | 100 | 60 |
| TGTBAZ08155 | M8 x 155 | 100 | 200 | 14,400 | 65 | 20 | 100 | 85 |
| TGTBAZ10070 | M10 x 70 | 100 | 400 | 21,600 | 60 | 35 | 100 | 3 |
| TGTBAZ10080 | M10 x 80 | 100 | 400 | 14,400 | 60 | 35 | 100 | 13 |
| TGTBAZ10090 | M10 x 90 | 100 | 400 | 14,400 | 75 | 35 | 110 | 10 |
| TGTBAZ10100 | M10 x 100 | 100 | 400 | 14,400 | 75 | 35 | 110 | 20 |
| TGTBAZ10120 | M10 x 120 | 50 | 300 | 10,800 | 75 | 35 | 110 | 40 |
| TGTBAZ10140 | M10 x 140 | 50 | 200 | 10,800 | 75 | 35 | 110 | 60 |
| TGTBAZ10150 | M10 x 150 | 50 | 200 | 10,800 | 75 | 35 | 110 | 70 |
| TGTBAZ10160 | M10 x 160 | 50 | 200 | 7,200 | 75 | 35 | 110 | 80 |
| TGTBAZ10170 | M10 x 170 | 50 | 200 | 7,200 | 75 | 35 | 110 | 90 |
| TGTBAZ10210 | M10 x 210 | 50 | 150 | 5,400 | 75 | 35 | 110 | 130 |
| TGTBAZ10230 | M10 x 230 | 50 | 100 | 3,600 | 75 | 35 | 110 | 150 |
| TGTBAZ12090 | M12 x 90 | 50 | 200 | 10,800 | 70 | 60 | 100 | 13 |
| TGTBAZ12100 | M12 x 100 | 50 | 200 | 10,800 | 85 | 60 | 130 | 8 |
| TGTBAZ12110 | M12 x 110 | 50 | 200 | 10,800 | 85 | 60 | 130 | 18 |
| TGTBAZ12120 | M12 x 120 | 50 | 200 | 10,800 | 85 | 60 | 130 | 28 |
| TGTBAZ12130 | M12 x 130 | 50 | 200 | 7,200 | 85 | 60 | 130 | 38 |
| TGTBAZ12140 | M12 x 140 | 50 | 200 | 7,200 | 85 | 60 | 130 | 48 |
| TGTBAZ12160 | M12 x 160 | 50 | 100 | 7,200 | 85 | 60 | 130 | 68 |
| TGTBAZ12180 | M12 x 180 | 50 | 150 | 5,400 | 85 | 60 | 130 | 88 |
| TGTBAZ12200 | M12 x 200 | 50 | 100 | 5,400 | 85 | 60 | 130 | 108 |
| TGTBAZ12220 | M12 x 220 | 50 | 100 | 3,600 | 85 | 60 | 130 | 128 |
| TGTBAZ12250 | M12 x 250 | 25 | 50 | 1,800 | 85 | 60 | 130 | 158 |
| TGTBAZ14120 | M14 x 120 | 25 | 100 | 5,400 | 100 | 90 | 150 | 12 |
| TGTBAZ14145 | M14 x 145 | 25 | 100 | 5,400 | 100 | 90 | 150 | 37 |
| TGTBAZ14170 | M14 x 170 | 25 | 100 | 3,600 | 100 | 90 | 150 | 62 |
| TGTBAZ14220 | M14 x 220 | 25 | 75 | 2,700 | 100 | 90 | 150 | 112 |
| TGTBAZ14250 | M14 x 250 | 25 | 50 | 2,700 | 100 | 90 | 150 | 142 |
| TGTBAZ16125 | M16 x 125 | 25 | 100 | 3,600 | 110 | 120 | 168 | 3 |
| TGTBAZ16145 | M16 x 145 | 25 | 100 | 3,600 | 110 | 120 | 168 | 23 |
| TGTBAZ16170 | M16 x 170 | 25 | 50 | 3,600 | 110 | 120 | 168 | 48 |
| TGTBAZ16220 | M16 x 220 | 25 | 50 | 2,700 | 110 | 120 | 168 | 98 |
| TGTBAZ16250 | M16 x 250 | 25 | 50 | 1,800 | 110 | 120 | 168 | 128 |
| TGTBAZ16280 | M16 x 280 | 25 | 50 | 1,800 | 110 | 120 | 168 | 158 |
| TGTBAZ20170 | M20 x 170 | 20 | 40 | 2,880 | 135 | 240 | 206 | 23 |
| TGTBAZ20220 | M20 x 220 | 20 | 40 | 2,160 | 135 | 240 | 206 | 73 |
| TGTBAZ20270 | M20 x 270 | 20 | 40 | 1,440 | 135 | 240 | 206 | 123 |

| TENSION | SIZE | MAXIMUM RECOMMENDED LOAD (kN) | | DESIGN LOAD (kN) | |
|---------|------|-------------------------------|---------------|-------------------|---------------|
| | | NON CRACKED DEPTH | CRACKED DEPTH | NON CRACKED DEPTH | CRACKED DEPTH |
| | M6 | 3.8 | - | 5.3 | - |
| M8 | 6.6 | 4.8 | 9.2 | 6.7 | |
| M10 | 9.0 | 6.5 | 12.7 | 9.1 | |
| M12 | 12.6 | 8.5 | 17.6 | 11.9 | |
| M14 | 15.6 | - | 21.8 | - | |
| M16 | 18.5 | 12.6 | 25.9 | 17.6 | |
| M20 | 25.1 | 15.6 | 35.1 | 21.8 | |

| SHEAR | SIZE | MAXIMUM RECOMMENDED LOAD (kN) | | DESIGN LOAD (kN) | |
|-------|------|-------------------------------|---------------|-------------------|---------------|
| | | NON CRACKED DEPTH | CRACKED DEPTH | NON CRACKED DEPTH | CRACKED DEPTH |
| | M6 | 2.9 | - | 4.1 | - |
| M8 | 5.3 | 4.9 | 7.4 | 7.0 | |
| M10 | 8.4 | 6.5 | 11.8 | 9.1 | |
| M12 | 11.8 | 8.5 | 16.4 | 11.9 | |
| M14 | 16.0 | - | 22.5 | - | |
| M16 | 21.9 | 12.9 | 30.7 | 30.7 | |
| M20 | 32.1 | 31.2 | 45.1 | 43.7 | |

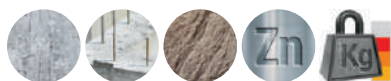


TEMBO GLOBAL INDUSTRIES LIMITED

THROUGH BOLT ANCHOR

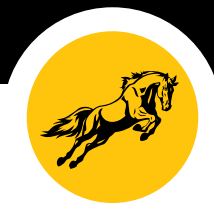
Zinc-plated shaft.

Zinc-plated clip



| PRODUCT CODE | SIZE | UNIT BOX | UNIT MASTER BOX | UNIT PALLET | HOLE DEPTH MIN. "F" | TORQUE (NM) | MIN. SUBSTRATE THICKNESS "t _{min} " | MAX. FIXTURE THICKNESS "t _{fix} " |
|--------------|-----------|----------|-----------------|-------------|---------------------|-------------|--|--|
| TGTBAZM06045 | M6 x 45 | 200 | 1,200 | 43,200 | 40 | 7 | 100 | 1 |
| TGTBAZM06055 | M6 x 55 | 200 | 1,200 | 43,200 | 40 | 7 | 100 | 11 |
| TGTBAZM06060 | M6 x 60 | 200 | 1,200 | 43,200 | 55 | 7 | 100 | 2 |
| TGTBAZM06065 | M6 x 65 | 200 | 1,200 | 43,200 | 55 | 7 | 100 | 7 |
| TGTBAZM06070 | M6 x 70 | 200 | 1,200 | 43,200 | 55 | 7 | 100 | 12 |
| TGTBAZM06080 | M6 x 80 | 200 | 1,200 | 43,200 | 55 | 7 | 100 | 22 |
| TGTBAZM06085 | M6 x 85 | 200 | 1,200 | 43,200 | 55 | 7 | 100 | 27 |
| TGTBAZM06090 | M6 x 90 | 200 | 1,200 | 43,200 | 55 | 7 | 100 | 32 |
| TGTBAZM06100 | M6 x 100 | 200 | 800 | 43,200 | 55 | 7 | 100 | 42 |
| TGTBAZM06110 | M6 x 110 | 200 | 800 | 28,800 | 55 | 7 | 100 | 52 |
| TGTBAZM06120 | M6 x 120 | 100 | 600 | 21,600 | 55 | 7 | 100 | 62 |
| TGTBAZM06130 | M6 x 130 | 100 | 600 | 21,600 | 55 | 7 | 100 | 72 |
| TGTBAZM06140 | M6 x 140 | 100 | 600 | 21,600 | 55 | 7 | 100 | 82 |
| TGTBAZM06150 | M6 x 150 | 100 | 600 | 21,600 | 55 | 7 | 100 | 92 |
| TGTBAZM06160 | M6 x 160 | 100 | 400 | 14,400 | 55 | 7 | 100 | 102 |
| TGTBAZM06170 | M6 x 170 | 100 | 400 | 14,400 | 55 | 7 | 100 | 112 |
| TGTBAZM06180 | M6 x 180 | 100 | 300 | 10,800 | 55 | 7 | 100 | 122 |
| TGTBAZM08050 | M8 x 50 | 100 | 800 | 43,200 | 40 | 20 | 100 | 4 |
| TGTBAZM08060 | M8 x 60 | 100 | 800 | 43,200 | 50 | 20 | 100 | 3 |
| TGTBAZM08065 | M8 x 65 | 100 | 600 | 21,600 | 50 | 20 | 100 | 8 |
| TGTBAZM08075 | M8 x 75 | 100 | 600 | 21,600 | 65 | 20 | 100 | 5 |
| TGTBAZM08090 | M8 x 90 | 100 | 600 | 21,600 | 65 | 20 | 100 | 20 |
| TGTBAZM08115 | M8 x 115 | 100 | 400 | 14,400 | 65 | 20 | 100 | 45 |
| TGTBAZM08120 | M8 x 120 | 100 | 400 | 14,400 | 65 | 20 | 100 | 50 |
| TGTBAZM08130 | M8 x 130 | 100 | 400 | 14,400 | 65 | 20 | 100 | 60 |
| TGTBAZM08155 | M8 x 155 | 100 | 200 | 14,400 | 65 | 20 | 100 | 85 |
| TGTBAZM10065 | M10 x 65 | 100 | 400 | 21,600 | 55 | 35 | 100 | 1 |
| TGTBAZM10070 | M10 x 70 | 100 | 400 | 21,600 | 60 | 35 | 100 | 3 |
| TGTBAZM10080 | M10 x 80 | 100 | 400 | 21,600 | 60 | 35 | 100 | 13 |
| TGTBAZM10090 | M10 x 90 | 100 | 400 | 14,400 | 70 | 35 | 110 | 10 |
| TGTBAZM10100 | M10 x 100 | 100 | 400 | 14,400 | 70 | 35 | 110 | 20 |
| TGTBAZM10120 | M10 x 120 | 50 | 300 | 10,800 | 70 | 35 | 110 | 40 |
| TGTBAZM10140 | M10 x 140 | 50 | 200 | 10,800 | 70 | 35 | 110 | 60 |
| TGTBAZM10150 | M10 x 150 | 50 | 200 | 10,800 | 70 | 35 | 110 | 70 |
| TGTBAZM10160 | M10 x 160 | 50 | 200 | 7,200 | 70 | 35 | 110 | 80 |
| TGTBAZM10170 | M10 x 170 | 50 | 200 | 7,200 | 70 | 35 | 110 | 90 |
| TGTBAZM10210 | M10 x 210 | 50 | 150 | 5,400 | 70 | 35 | 110 | 130 |
| TGTBAZM10230 | M10 x 230 | 50 | 100 | 3,600 | 70 | 35 | 110 | 150 |
| TGTBAZM12075 | M12 x 75 | 50 | 300 | 10,800 | 60 | 60 | 100 | 5 |
| TGTBAZM12080 | M12 x 80 | 50 | 300 | 10,800 | 70 | 60 | 100 | 3 |
| TGTBAZM12090 | M12 x 90 | 50 | 200 | 10,800 | 70 | 60 | 100 | 13 |

See more references →



TEMBO GLOBAL INDUSTRIES LIMITED

THROUGH BOLT ANCHOR

| PRODUCT CODE | SIZE | UNIT BOX | UNIT MASTER BOX | UNIT PALLET | HOLE DEPTH MIN. "F" | TORQUE (NM) | MIN. SUBSTRATE THICKNESS "t _{min} " | MAX. FIXTURE THICKNESS "t _{fix} " |
|--------------|-----------|----------|-----------------|-------------|---------------------|-------------|--|--|
| TGTBAZM12100 | M12 x 100 | 50 | 200 | 10,800 | 85 | 60 | 130 | 8 |
| TGTBAZM12110 | M12 x 110 | 50 | 200 | 10,800 | 85 | 60 | 130 | 18 |
| TGTBAZM12120 | M12 x 120 | 50 | 200 | 7,200 | 85 | 60 | 130 | 28 |
| TGTBAZM12140 | M12 x 140 | 50 | 200 | 7,200 | 85 | 60 | 130 | 48 |
| TGTBAZM12160 | M12 x 160 | 50 | 100 | 7,200 | 85 | 60 | 130 | 68 |
| TGTBAZM12180 | M12 x 180 | 50 | 150 | 5,400 | 85 | 60 | 130 | 88 |
| TGTBAZM12220 | M12 x 220 | 50 | 100 | 5,400 | 85 | 60 | 130 | 128 |
| TGTBAZM12250 | M12 x 250 | 25 | 50 | 1,800 | 85 | 60 | 130 | 158 |
| TGTBAZM14080 | M14 x 80 | 50 | 200 | 10,800 | 65 | 90 | 100 | 5 |
| TGTBAZM14100 | M14 x 100 | 50 | 100 | 7,200 | 85 | 90 | 125 | 5 |
| TGTBAZM14120 | M14 x 120 | 25 | 100 | 5,400 | 100 | 90 | 150 | 12 |
| TGTBAZM14145 | M14 x 145 | 25 | 100 | 5,400 | 100 | 90 | 150 | 37 |
| TGTBAZM14170 | M14 x 170 | 25 | 100 | 3,600 | 100 | 90 | 150 | 62 |
| TGTBAZM14220 | M14 x 220 | 25 | 75 | 2,700 | 100 | 90 | 150 | 112 |
| TGTBAZM14250 | M14 x 250 | 25 | 50 | 1,800 | 100 | 90 | 150 | 142 |
| TGTBAZM16090 | M16 x 90 | 25 | 150 | 5,400 | 75 | 120 | 100 | 4 |
| TGTBAZM16110 | M16 x 110 | 25 | 150 | 5,400 | 75 | 120 | 100 | 24 |
| TGTBAZM16125 | M16 x 125 | 25 | 100 | 3,600 | 110 | 120 | 168 | 3 |
| TGTBAZM16145 | M16 x 145 | 25 | 100 | 3,600 | 110 | 120 | 168 | 23 |
| TGTBAZM16170 | M16 x 170 | 25 | 50 | 3,600 | 110 | 120 | 168 | 48 |
| TGTBAZM16220 | M16 x 220 | 25 | 50 | 2,700 | 110 | 120 | 168 | 98 |
| TGTBAZM16250 | M16 x 250 | 25 | 50 | 1,800 | 110 | 120 | 168 | 128 |
| TGTBAZM16280 | M16 x 280 | 25 | 50 | 1,800 | 110 | 120 | 168 | 158 |
| TGTBAZM20120 | M20 x 120 | 20 | 40 | 2,880 | 105 | 240 | 145 | 5 |
| TGTBAZM20170 | M20 x 170 | 20 | 40 | 2,160 | 135 | 240 | 206 | 23 |
| TGTBAZM20220 | M20 x 220 | 20 | 40 | 2,160 | 135 | 240 | 206 | 73 |
| TGTBAZM20270 | M20 x 270 | 20 | 40 | 1,440 | 135 | 240 | 206 | 123 |
| TGTBAZM24180 | M24 x 180 | 10 | 20 | 1,440 | 160 | 350 | 250 | 4 |
| TGTBAZM24260 | M24 x 260 | 10 | 20 | 720 | 160 | 350 | 250 | 84 |

← See more references →

| TENSION | SIZE | MAXIMUM RECOMMENDED LOAD (kN) | DESIGN LOAD (kN) |
|---------|------|-------------------------------|------------------|
| | M6 | 3.7 | 5.2 |
| | M8 | 6.6 | 9.3 |
| | M10 | 9.0 | 12.6 |
| | M12 | 12.6 | 17.6 |
| | M14 | 15.6 | 21.8 |
| | M16 | 18.5 | 25.9 |
| | M20 | 25.1 | 35.1 |
| | M24 | 19.8 | 27.7 |

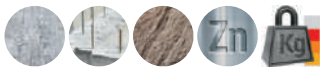
| SHEAR | SIZE | MAXIMUM RECOMMENDED LOAD (kN) | DESIGN LOAD (kN) |
|-------|------|-------------------------------|------------------|
| | M6 | 2.9 | 4.0 |
| | M8 | 5.3 | 7.4 |
| | M10 | 8.4 | 11.7 |
| | M12 | 11.7 | 16.4 |
| | M14 | 16.0 | 22.4 |
| | M16 | 21.9 | 30.7 |
| | M20 | 32.1 | 45.0 |
| | M24 | 48.4 | 67.7 |



TEMBO GLOBAL INDUSTRIES LIMITED

THROUGH BOLT ANCHOR

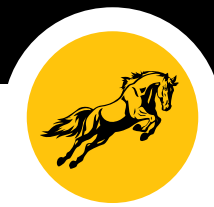
Inches.
Zinc plated wedgebolt.
Zinc plated clip



| TENSION | SIZE | MAXIMUM RECOMMENDED LOAD (kN) | DESIGN LOAD (kN) |
|---------|------|-------------------------------|------------------|
| | 1/4" | 3.7 | 5.2 |
| 5/16" | 6.6 | 9.3 | |
| 3/8" | 9.0 | 12.6 | |
| 1/2" | 12.6 | 17.6 | |
| 5/8" | 18.5 | 25.9 | |
| 3/4" | 25.1 | 35.1 | |
| 1" | 19.8 | 27.7 | |

| SHEAR | SIZE | MAXIMUM RECOMMENDED LOAD (kN) | DESIGN LOAD (kN) |
|-------|------|-------------------------------|------------------|
| | 1/4" | 2.9 | 4.0 |
| 5/16" | 5.3 | 7.4 | |
| 3/8" | 8.4 | 11.7 | |
| 1/2" | 11.7 | 16.4 | |
| 5/8" | 21.9 | 30.7 | |
| 3/4" | 32.1 | 45.0 | |
| 1" | 48.4 | 67.7 | |

| PRODUCT CODE | SIZE | UNIT BOX | UNIT MASTER BOX | UNIT PALLET | HOLE DEPTH MIN. "F" | TORQUE (NM) | MIN. SUBSTRATE THICKNESS "t _{min} " | MAX. FIXTURE THICKNESS "t _{fix} " |
|--------------|----------------|----------|-----------------|-------------|---------------------|-------------|--|--|
| TGTBAZI14134 | 1/4" x 1 3/4" | 200 | 1,200 | 43,200 | 1 1/2" | 5 | 2" | 0.20" |
| TGTBAZI14214 | 1/4" x 2 1/4" | 200 | 1,200 | 43,200 | 2" | 5 | 4" | 0.20" |
| TGTBAZI14314 | 1/4" x 3 1/4" | 200 | 800 | 43,200 | 2" | 5 | 4" | 1.20" |
| TGTBAZI51200 | 5/16" x 2" | 100 | 800 | 43,200 | 1 13/16" | 14 | 2 1/8" | 0.23" |
| TGTBAZI51234 | 5/16" x 2 3/4" | 100 | 600 | 21,600 | 2 1/2" | 14 | 4" | 0.29" |
| TGTBAZI51312 | 5/16" x 3 1/2" | 100 | 600 | 21,600 | 2 1/2" | 14 | 4" | 1.04" |
| TGTBAZI51500 | 5/16" x 5" | 100 | 400 | 14,400 | 2 1/2" | 14 | 4" | 2.54" |
| TGTBAZI38214 | 3/8" x 2 1/4" | 100 | 600 | 21,600 | 2" | 27 | 2 1/2" | 0.71" |
| TGTBAZI38234 | 3/8" x 2 3/4" | 100 | 600 | 21,600 | 2" | 27 | 2 1/2" | 1.21" |
| TGTBAZI38300 | 3/8" x 3" | 100 | 400 | 14,400 | 2 3/4" | 27 | 4" | 0.24" |
| TGTBAZI38312 | 3/8" x 3 1/2" | 100 | 400 | 14,400 | 2 3/4" | 27 | 4" | 0.74" |
| TGTBAZI38334 | 3/8" x 3 3/4" | 100 | 400 | 14,400 | 2 3/4" | 27 | 4" | 0.99" |
| TGTBAZI38500 | 3/8" x 5" | 50 | 200 | 7,200 | 2 3/4" | 27 | 4" | 2.24" |
| TGTBAZI12234 | 1/2" x 2 3/4" | 50 | 200 | 10,800 | 2 1/4" | 54 | 3" | 0.27" |
| TGTBAZI12300 | 1/2" x 3" | 50 | 200 | 10,800 | 2 1/4" | 54 | 3" | 1.02" |
| TGTBAZI12334 | 1/2" x 3 3/4" | 50 | 200 | 10,800 | 3 1/4" | 54 | 5" | 0.27" |
| TGTBAZI12414 | 1/2" x 4 1/4" | 50 | 200 | 10,800 | 3 1/4" | 54 | 5" | 0.77" |
| TGTBAZI12412 | 1/2" x 4 1/2" | 50 | 200 | 7,200 | 3 1/4" | 54 | 5" | 1.02" |
| TGTBAZI12500 | 1/2" x 5" | 50 | 200 | 7,200 | 3 1/4" | 54 | 5" | 1.52" |
| TGTBAZI12512 | 1/2" x 5 1/2" | 50 | 100 | 7,200 | 3 1/4" | 54 | 5" | 2.02" |
| TGTBAZI12700 | 1/2" x 7" | 50 | 100 | 5,400 | 3 1/4" | 54 | 5" | 3.52" |
| TGTBAZI12100 | 1/2" x 10" | 25 | 50 | 1,800 | 3 1/4" | 54 | 5" | 6.52" |
| TGTBAZI58412 | 5/8" x 4 1/2" | 25 | 100 | 3,600 | 4 1/8" | 108 | 6" | 0.21" |
| TGTBAZI58500 | 5/8" x 5" | 25 | 100 | 3,600 | 4 1/8" | 108 | 6" | 0.71" |
| TGTBAZI58600 | 5/8" x 6" | 25 | 50 | 1,800 | 4 1/8" | 108 | 6" | 1.71" |
| TGTBAZI58700 | 5/8" x 7" | 25 | 75 | 2,700 | 4 1/8" | 108 | 6" | 2.71" |
| TGTBAZI58100 | 5/8" x 10" | 25 | 50 | 1,800 | 4 1/8" | 108 | 6" | 5.71" |
| TGTBAZI34414 | 3/4" x 4 1/4" | 20 | 80 | 2,880 | 3 1/2" | 149 | 4 1/2" | 0.54" |
| TGTBAZI34512 | 3/4" x 5 1/2" | 20 | 40 | 2,880 | 4 3/4" | 149 | 7 1/2" | 0.54" |
| TGTBAZI34700 | 3/4" x 7" | 20 | 400 | 2,160 | 4 3/4" | 149 | 7 1/2" | 2.04" |
| TGTBAZI34812 | 3/4" x 8 1/2" | 20 | 40 | 2,160 | 4 3/4" | 149 | 7 1/2" | 3.54" |
| TGTBAZI34100 | 3/4" x 10" | 20 | 40 | 1,440 | 4 3/4" | 149 | 7 1/2" | 5.04" |
| TGTBAZI10600 | 1" x 6" | 10 | 40 | 1,440 | 5 1/4" | 250 | 9" | 0.51" |
| TGTBAZI10900 | 1" x 9" | 10 | 20 | 1,080 | 6 1/2" | 250 | 9" | 2.23" |
| TGTBAZI10120 | 1" x 12" | 10 | 20 | 720 | 6 1/2" | 250 | 9" | 5.23" |



TEMBO GLOBAL INDUSTRIES LIMITED

DROP IN ANCHOR



CHARACTERISTICS

- Functioning by deformation.
- European assessment for structural applications in non cracked concrete.
- European assessment for non structural applications in cracked and non cracked concrete.
- Installation prior to the material to be fixed.
- Bolt can be disassembled so that the surface of the base material is smooth.
- Bolt not included.

APPLICATIONS

- Fixing suspended ceilings, sprinklers and ventilation systems.
- Structural fixing, inner and outer ironworks.
- Fixing threaded bars.

BASE MATERIALS



Concrete



Stone

















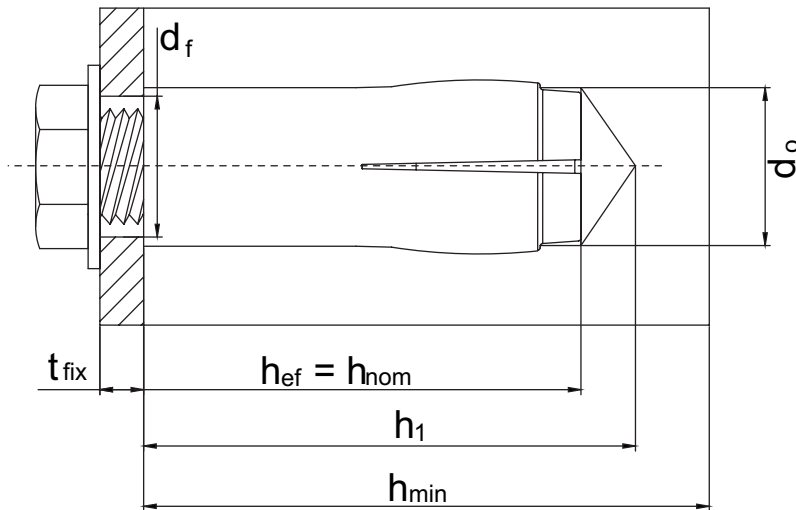
Reinforced
concrete



TEMBO GLOBAL INDUSTRIES LIMITED

RANGE

| PRODUCT | PICTURE | ASSESSMENT | MATERIAL | BASE MATERIALS | LOADS |
|-----------------------|---|---|---|---|---|
| Option 7 ETA Assessed |  |    Fire Resistance |  |  |  |
| Option 7 ETA Assessed |  |    Fire Resistance |  |  |  |





TEMBO GLOBAL INDUSTRIES LIMITED

DROP IN ANCHOR

Option 7 ETA Assessed
for structural and
non-structural uses



| PRODUCT CODE | SIZE | UNIT BOX | UNIT MASTER BOX | HOLE DEPTH MIN. (MM) | TORQUE (NM) | EFFECTIVE DEPTH (MM) | DRILL (MM) |
|--------------|----------|----------|-----------------|----------------------|-------------|----------------------|------------|
| TGDIA06025 | M6 x 25 | 100 | 4,000 | 27 | 4 | 25 | 8 |
| TGDIA08030 | M8 x 30 | 100 | 2,200 | 33 | 11 | 30 | 10 |
| TGDIA01040 | M10 x 40 | 50 | 1,000 | 43 | 17 | 40 | 12 |
| TGDIA01250 | M12 x 50 | 50 | 600 | 54 | 38 | 50 | 15 |
| TGDIA01665 | M16 x 65 | 25 | 250 | 70 | 60 | 65 | 20 |
| TGDIA02080 | M20 x 80 | 25 | 100 | 86 | 100 | 80 | 25 |

| | SIZE | TENSION | |
|--|------|---|--|
| | | CHARACTERISTIC LOAD CRACKED CONCRETE (kN) | MAXIMUM RECOMMENDED LOAD (kN) CRACKED CONCRETE |
| | M6 | 2.00 | 0.8 |
| | M8 | 3.00 | 1.2 |
| | M10 | 5.00 | 1.7 |
| | M12 | 7.50 | 2.6 |
| | M16 | 12.00 | 4.1 |
| | M20 | 20.00 | 6.8 |



TEMBO GLOBAL INDUSTRIES LIMITED

DROP IN ANCHOR

Option 7 ETA Assessed for structural and non-structural uses. With flared lip



| PRODUCT CODE | SIZE | UNIT BOX | UNIT MASTER BOX | HOLE DEPTH MIN. (MM) | TORQUE (NM) | EFFECTIVE DEPTH (MM) | DRILL (MM) |
|--------------|----------|----------|-----------------|----------------------|-------------|----------------------|------------|
| TGDIAF06025 | M6 x 25 | 100 | 4,000 | 27 | 4 | 25 | 8 |
| TGDIAF08030 | M8 x 30 | 100 | 2,200 | 33 | 11 | 30 | 10 |
| TGDIAF01040 | M10 x 40 | 50 | 1,000 | 43 | 17 | 40 | 12 |
| TGDIAF01250 | M12 x 50 | 50 | 600 | 54 | 38 | 50 | 15 |
| TGDIAF01665 | M16 x 65 | 25 | 250 | 70 | 60 | 65 | 20 |

| TENSION | SIZE | MAXIMUM RECOMMENDED LOAD (kN) NON-CRACKED CONCRETE | DESIGN LOAD (kN) NON-CRACKED CONCRETE |
|---------|------|--|---------------------------------------|
| | M6 | 2.5 | 3.5 |
| M8 | 3.3 | 4.6 | |
| M10 | 4.4 | 6.1 | |
| M12 | 6.1 | 8.5 | |
| M16 | 9.0 | 12.6 | |



TEMBO GLOBAL INDUSTRIES LIMITED

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