



2022 EN

PETER EISENREICH GMBH

SPEZIAL-BAUARTIKEL



Formwork Anchor GFK DW15



Formwork Sleeve ALU and Steel



Anchors EHS 45° DW15 / DW20



Anchor Hercules DW26.5



Adhesive Sleeve ALU and Steel



Round Bar Bender TEB12



Grounding Tape Dispenser








Cone Plug with Double-Headed Nail
pre-assembled, with four markings in
90° angularity for accurate positioning

fitting tube 35 mm threadless
simplifies thread rod screwing

material non corrosive, ecological harmless

Tensile load permitted: F_h 26,3 kN at concrete compressive strength 17 N/mm²
 F_h 39,1 kN at concrete compressive strength 20 N/mm²
including safety factors according ETAG-001

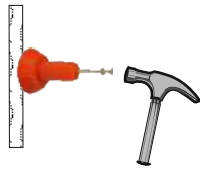
IFBT
Prüfbericht
Nr. 06-117

	order number	pcs/unit
 <p>Formwork Anchor GFK DW15 / L 12,5 cm</p>	401512	unit: 100 pcs
 <p>Cone Plug Ø 42 mm, for installation in wood formwork concrete cover 12 mm, assemblies with Double-Headed Nail 75 mm, zinc-plated, reuseable</p>	401518	unit: 100 pcs
 <p>Sealing Plug PVC Ø 31 mm</p>	131518	unit: 100 pcs
 <p>Facing Concret Cone Plug SBK 15/10 made of casted concrete optimal solution to exposed concrete construction</p>	411510	unit: 1 pcs
 <p>Cone Plug DW15 Stainless Steel made of 1.4301 for closing the anchorage, makes visual accents</p>	411511	unit: 1 pcs

The use for mounting suspend scaffolds is not allowed!
Tensile Load: F_n permitted 26,3 kN / B25 / 17 N/mm²; F_n max 39,1 kN / B25 / 17 N/mm²

A - Installation to formworks

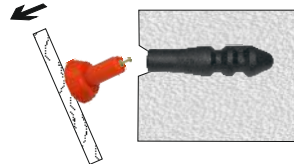
- 1 Inmeasure anchor point and nail Cone Plug (order number 401518) to formwork panel using provided double head nail. Edge distance minimum 10 cm



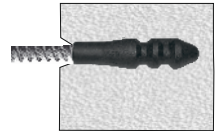
- 2 Stick on anchor to cone plug's socket. Tie it to reinforcement if required. Position is now ready for concrete casting.



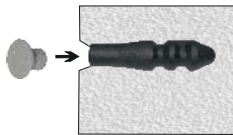
- 3 When required concrete probrerty is achieved strip formwork. By that cone plug will be pulled of the anchor. The double head nail can be easily pulled out. Cone plug and nail can be reused.



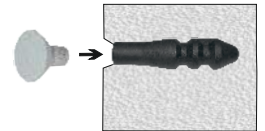
- 4 The Thread rod now can be screwed in conveniently due to anchor's threadless fitting tube.



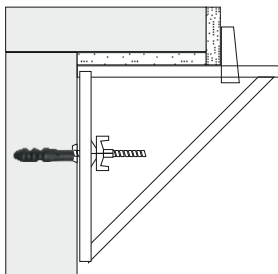
- 5 Sealing: using Sealing Plug PVC (order number 131518) The position can be finished with mortar and grinded on demand.



- 6 for exposed concrete construction use Concrete Cone Plug SBK 15/10 (order number 415110) for sealing in perfect optics

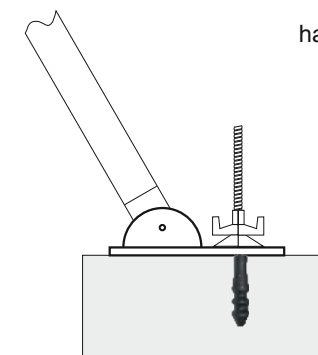
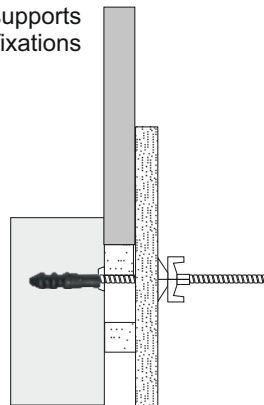


B - Applications



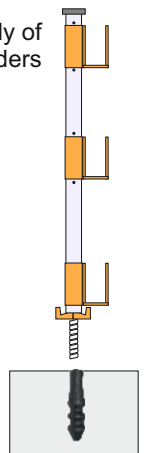
Fixation to slab stopend bars, trestless bars, angels, supports etc.

Unsiveral supports and fixations

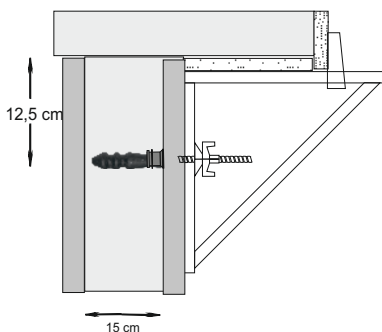


Fixation to push pull props for formwork elements

Assembly of handrail holders

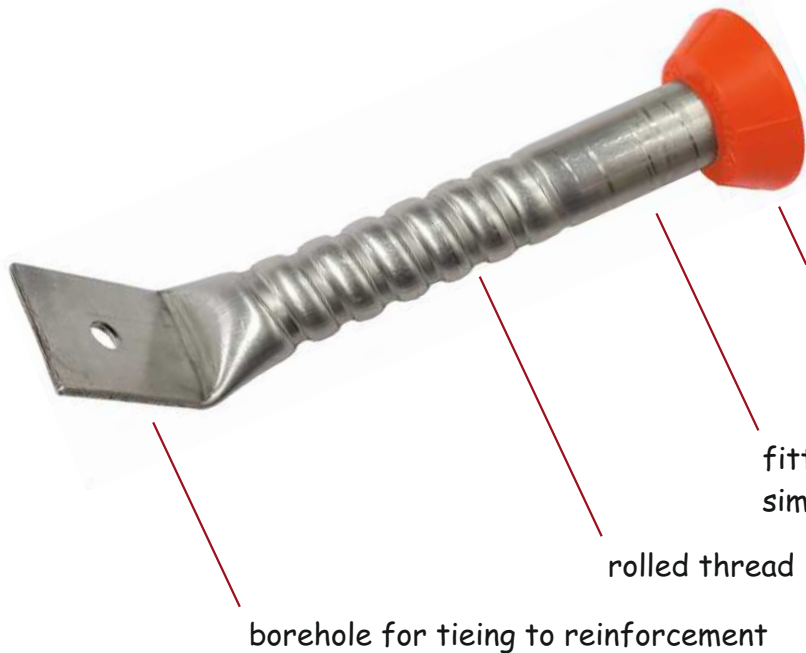


Application to Hollowchamber Walls:



Operations befor concrete casting:

1. Calibrate anchor position, edge distances minimum 12,5 cm.
2. Perform a drilling \varnothing 22 mm in correct position through the concrete shell.
3. Insert the GFK-HK into the hollowchamber to the bore hole and screw in a thread rod DW15 through the concrete shell. Care for screwing in full length.
4. Fix the bracket using a flange nut DW15. The GFK now is tightened to the inner side of the concrete shell and sealed against concrete foam.
5. The anchor position can already loaded now - before concreting - according to the shell's bearing.



Cone Plug with Double-Headed Nail
pre-assembled, with four markings in
90° angularity for accurate positioning







fitting tube 35 mm threadless
simplifies thread rod screwing

rolled thread

borehole for tying to reinforcement

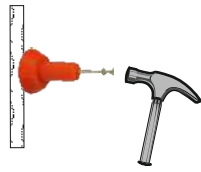
Tensile load permitted: F_h 30,5 kN at concrete compressive strength 17 N/mm²
 F_h 37,0 kN at concrete compressive strength 20 N/mm²
including safety factors according ETAG-001

IFBT
Prüfbericht
Nr. 02-103

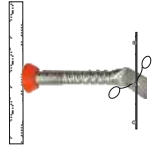
	order number	pcs/unit
 Formwork Sleeve ALU DW15 / L 15 cm F_h 30,5 kN at concrete compressive strength 17 N/mm ² F_h 37,0 kN at concrete compressive strength 20 N/mm ²	401515	unit: 100 pcs
 Formwork Sleeve ALU DW15 / L 19 cm F_h 28,0 kN at concrete compressive strength 10 N/mm ² F_h 45,0 kN at concrete compressive strength 20 N/mm ²	401519	unit: 100 pcs
 Cone Plug Ø 42 mm, for installation in wood formwork concrete cover 12 mm, assemblies with Double-Headed Nail 75 mm , zinc-plated, reuseable	401518	unit: 100 pcs
 Sealing Plug PVC Ø 31 mm	131518	unit: 100 pcs
 Facing Concret Cone Plug SBK 15/10 made of casted concrete optimal solution to exposed concrete construction	411510	unit: 1 pcs
 Cone Plug DW15 Stainless Steel made of 1.4301 for closing the anchorage, makes visual accents	411511	unit: 1 pcs

A - Installation to formworks

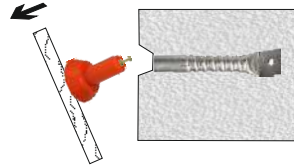
- 1 Inmeasure anchor point and nail Cone Plug (order number 401518) to formwork panel using provided double head nail. edge distance minimum 10 cm



- 2 Stick on anchor to cone plug's socket. Tie it to reinforcement if required. Position is now ready for concrete casting.



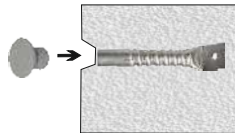
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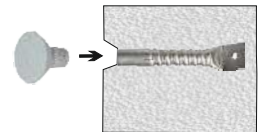
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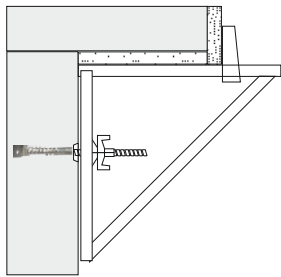
- 5 Sealing: using Sealing Plug PVC (order number 131518) The position can be finished with mortar and grinded on demand.



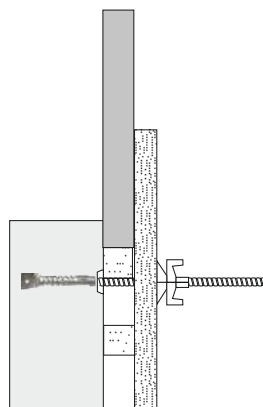
- 6 for exposed concrete construction use Concrete Cone Plug SBK 15/10 (order number 415110) for sealing in perfect optics



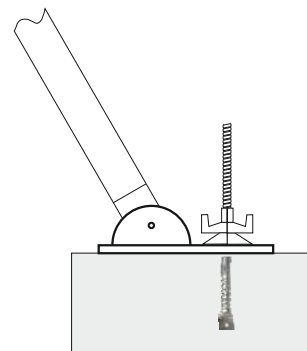
B - Applications



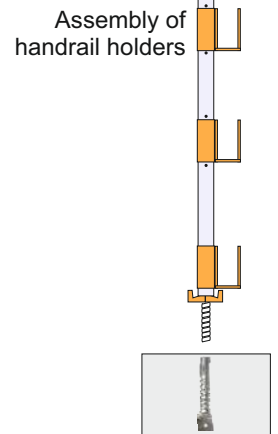
Fixation to slab stopend bars, trestless bars, angels, supports etc.



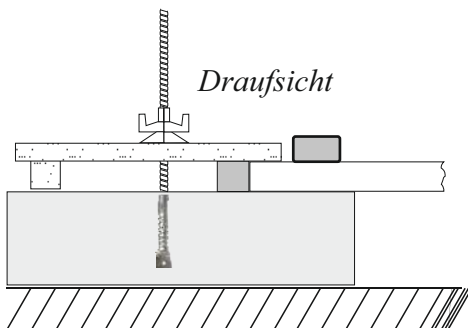
Unsiveral supports and fixations



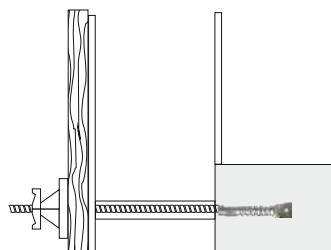
Fixation to push pull props for formwork elements



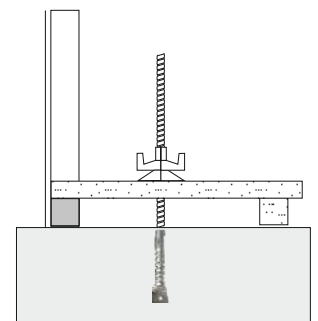
Assembly of handrail holders



Unit connection at one sided formwork sleeve application 2 - 3 times (depending on the height of concrete)



Anchoring at various foundation heights



Used as tie down anchor advantageous specially to ready grinded surface

The use for mounting suspend scaffolds is not allowed!

The optimal reanchoring system to support frames for one-sided wall formwork !



Due to stricter static requirements reinforcements in floor slabs are being placed closer increasingly. Installing loop anchors or similar inlets is becoming more difficult and time consuming.

Our Anchors EHS DW15 / DW20 are the solution !

- Benefits:**
- Installation into meshes more than 70 mm without any problem
 - no opening or welding reinforcements subsequently
 - one pieced anchor - no additional couplers or holders requested
 - position can be treated by a finishing trowel or a screed board and recognized again
 - quick and simple installation done by 1 person only within less than one minute
 - no removing protruding tie rods - a minimum of refinishing only
 - reanchoring out of walls, installation in wall formwork without drilling

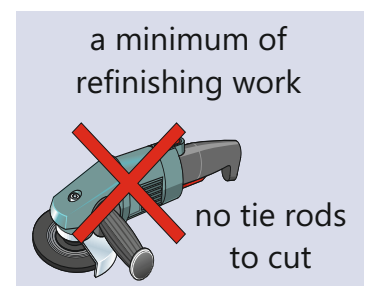
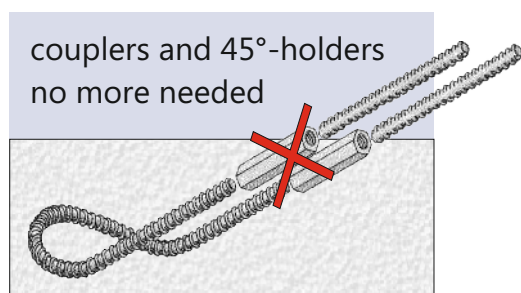
This anchorage EHS delivered ready for installation is consisting of one or two thread sleeves DW15 or DW20 made of steel connected with welded mounting bowl in requested axle distance and in angularity 45°. Components are Trowel Caps PE 45° for an unhindered treating by screed board or a finishing trowel and an easy recognize. After removing the recesses a suitable cavity for filling compound is formed.

Reanchoring out of walls

No more thrilling through formwork panels as required previously because of using the Trowel Cap PE 45°.



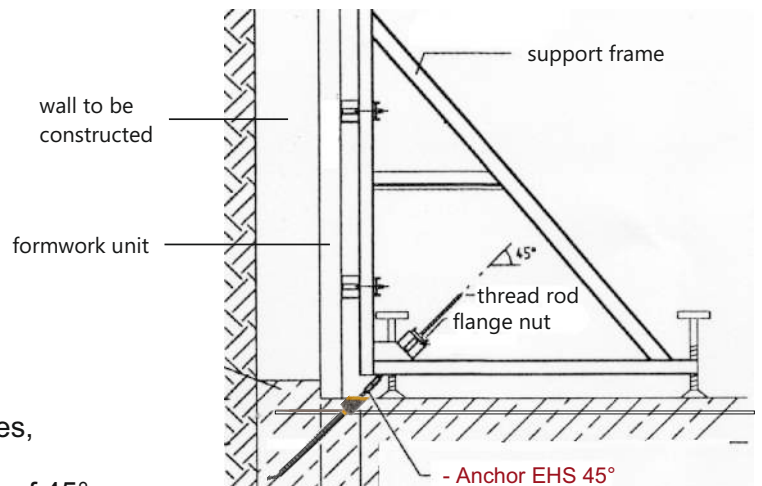
Trowel Cap PE-45°





suspension frames,
reanchored in
correct angularity of 45°

Cross section:



Application in slabs without
hindrance to screed board
and power float

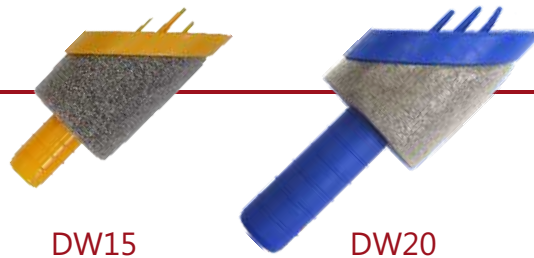
staplessly variable to
concrete cover 30 - 60 mm



Recess leveled by a string

Trowel Cap PE-45°

Anchor position before
removing trowel caps



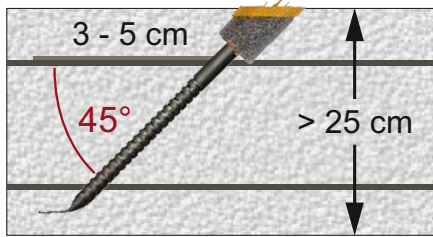
Installation in wall formwork
for reanchoring out of walls

no more drilling
through the formwork panel

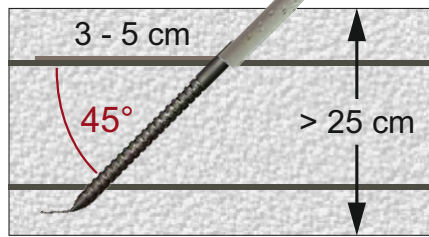


Anchor DW15 Standard for installing in concrete plates greater than 25 cm

Type GLB



Type ESB



order number



Solo DW15 GLB Standard, for ready grinded surfaces
delivered with one Trowel Cap PE-45°
permitted load:
1 x 85 kN at 17 N/mm² concrete compressive strength
1 x 90 kN at 30 N/mm² concrete compressive strength

501502G



Twin DW15 GLB Standard red, for ready grinded surfaces
with axle distance 23 cm
delivered with two Trowel Caps PE-45°
permitted load:
2 x 85 kN at 17 N/mm² concrete compressive strength
2 x 90 kN at 30 N/mm² concrete compressive strength

501503G



Twin DW15 GLB Standard blue, for ready grinded surfaces
with axle distance 30 cm
delivered with two Trowel Caps PE-45°
permitted load:
2 x 85 kN at 17 N/mm² concrete compressive strength
2 x 90 kN at 30 N/mm² concrete compressive strength

501504G



Solo DW15 ESB Standard, for screed coated slabs
delivered with mounted duct tube and sealing cap
permitted load:
1 x 85 kN at 17 N/mm² concrete compressive strength
1 x 90 kN at 30 N/mm² concrete compressive strength

501502E



Twin DW15 ESB Standard red, for screed coated slabs
with axle distance 23 cm
delivered with mounted duct tubes and sealing caps
permitted load:
2 x 85 kN at 17 N/mm² concrete compressive strength
2 x 90 kN at 30 N/mm² concrete compressive strength

501503E

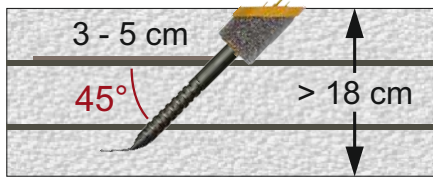


Twin DW15 ESB Standard blue, for screed coated slabs
with axle distance 30 cm
delivered with mounted duct tubes and sealing caps
permitted load:
2 x 85 kN at 17 N/mm² concrete compressive strength
2 x 90 kN at 30 N/mm² concrete compressive strength

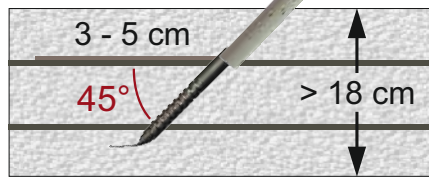
501504E

Anchor DW15 short for installing in concrete plates greater than 18 cm

Type GLB



Type ESB



order number



Solo DW15 GLB short, for ready grinded surfaces
delivered with one Trowel Cap PE-45°
permitted load:
1 x 60 kN at 17 N/mm² concrete compressive strength
1 x 80 kN at 30 N/mm² concrete compressive strength

501518G



Twin DW15 GLB short red, for ready grinded surfaces
with axle distance 23 cm
delivered with two Trowel Caps PE-45°
permitted load:
2 x 60 kN at 17 N/mm² concrete compressive strength
2 x 80 kN at 30 N/mm² concrete compressive strength

501505G



Twin DW15 GLB short blue, for ready grinded surfaces
with axle distance 30 cm
delivered with two Trowel Caps PE-45°
permitted load:
2 x 60 kN at 17 N/mm² concrete compressive strength
2 x 80 kN at 30 N/mm² concrete compressive strength

501506G



Solo DW15 ESB short, for screed coated slabs
delivered with mounted duct tube and sealing cap
Zulässige Belastung:
1 x 60 kN at 17 N/mm² concrete compressive strength
1 x 80 kN at 30 N/mm² concrete compressive strength

501518E



Twin DW15 ESB short red, for screed coated slabs
with axle distance 23 cm
delivered with mounted duct tubes and sealing caps
permitted load:
2 x 60 kN at 17 N/mm² concrete compressive strength
2 x 80 kN at 30 N/mm² concrete compressive strength

501505E

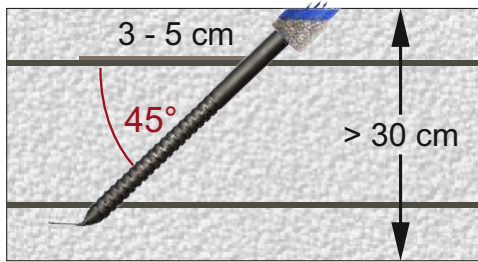


Twin DW15 ESB short blue, for screed coated slabs
with axle distance 30 cm
delivered with mounted duct tubes and sealing caps
permitted load:
2 x 60 kN at 17 N/mm² concrete compressive strength
2 x 80 kN at 30 N/mm² concrete compressive strength

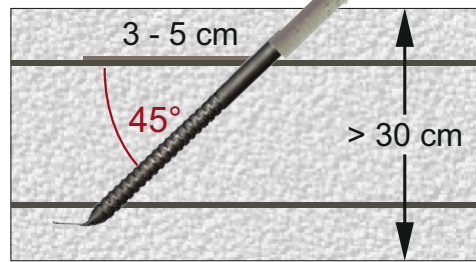
501506E

Anchor DW20 Standard for installing in concrete plates greater than 30 cm

Type GLB



Type ESB



order number



Solo DW20 GLB Standard, for ready grinded surfaces delivered with one Trowel Cap PE-45°
permitted load:
1 x 140 kN at 30 N/mm² concrete compressive strength

502003G



Twin DW20 GLB Standard, for ready grinded surfaces with axle distance 35 cm delivered with two Trowel Caps PE-45°
permitted load:
2 x 140 kN at 30 N/mm² concrete compressive strength

502001G



Solo DW20 ESB Standard, for screed coated slabs delivered with mounted duct tube and sealing cap
permitted load:
1 x 140 kN at 30 N/mm² concrete compressive strength

502003E

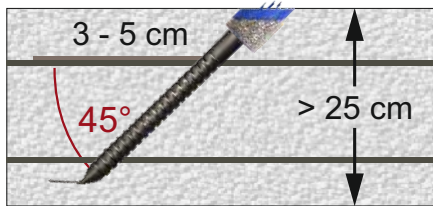


Twin DW20 ESB Standard, for screed coated slabs with axle distance 35 cm delivered with mounted duct tubes and sealing caps
permitted load:
2 x 140 kN at 30 N/mm² concrete compressive strength

502001E

Anchor DW20 short for installing in concrete plates greater than 25 cm

Type GLB



Type ESB



order number



Solo DW20 GLB short, for ready grinded surfaces
delivered with one Trowel Cap PE-45°
permitted load:
1 x 120 kN at 30 N/mm² concrete compressive strength

502004G



Twin DW20 GLB short, for ready grinded surfaces
with axle distance 35 cm
delivered with two Trowel Caps PE-45°
permitted load:
2 x 120 kN at 30 N/mm² concrete compressive strength

502005G



Solo DW20 ESB short, for screed coated slabs
delivered with mounted duct tube and sealing cap
permitted load:
1 x 120 kN at 30 N/mm² concrete compressive strength

502004E

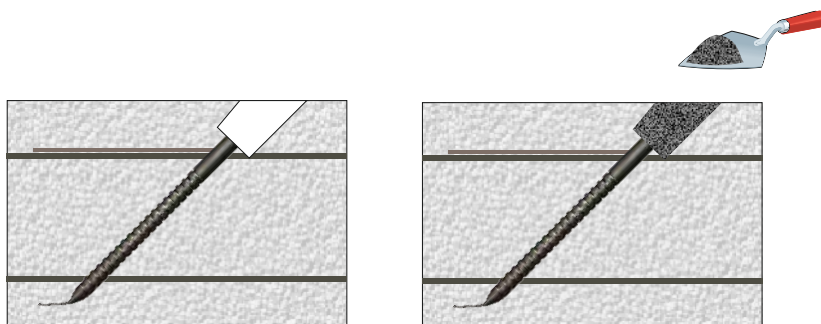
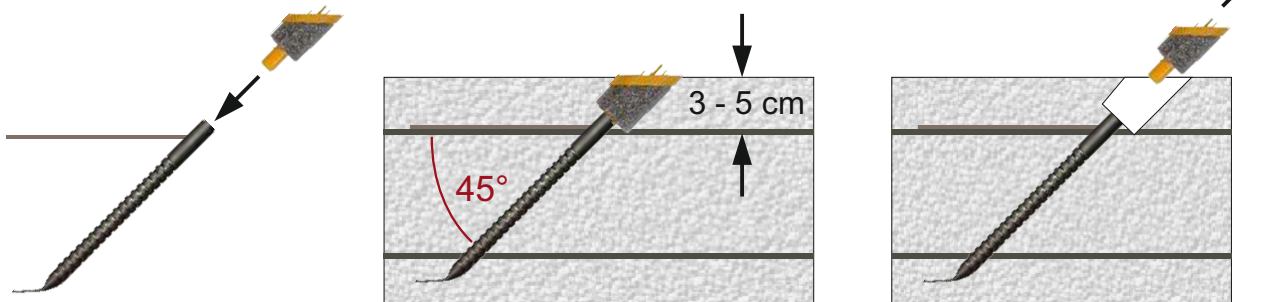


Twin DW20 ESB short, for screed coated slabs
with axle distance 35 cm
delivered with mounted duct tubes and sealing caps
permitted load:
2 x 120 kN at 30 N/mm² concrete compressive strength

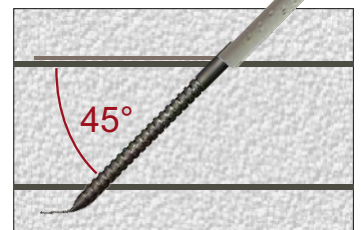
502005E

1. On Application of anchor types GLB for ready grinded surfaces stick in the Trowel Cap PE 45° into thread sleeve and align it. The recess can be moved in axial line referring to the concrete cover requested with 30 mm to 60 mm.
With upper reinforcement constructed to far down additional spacer bars have to be installed.
2. At anchor position stick anchor through the reinforcement, align it and tie it to the meshes.
Care for edge distance minimum 25 cm.
3. After adjusting trowel cap using a level string the anchor position is ready for concrete casting.
4. Care for sufficient and careful vibrating. On application of EHS-Types screed fresh concrete surface close around to the duct tubes. On application of GLB-Types treat the anchor position with the finishing trowel without hindrance. It can be recognized easily.
5. Remove sealing cap or trowel cap with a suitable tool.
6. Reanchor the support frame with thread rods. Care for screwing in at full length.
Use rods in faultless condition only.
7. After achieving the necessary concrete pressure strength the anchor can be stressed according to the product overview.
8. After stripping the formwork system remove the thread rod. On application of EHS-Types saw off the duct tube flush to the concrete surface. In use of GLB-Types refill the cavity with filling compound and grind the position.

Type GLB
for ready grinded surfaces



Typ ESB
for screed coated
slabs



The powerful and quick reanchoring to support frames for single sided formwork!

The anchor is consisting of an anchor head designed specially with low weight and small diameter. Ist duct tube sealed against concrete foam is preventing contact of metallic components to concrete surface.

Benifits:

- Quick, simple and correct assembly with the Holder 45° fastening at the upper meshes
- Variable adjustment to concrete cover
- Short and slim shaped, light weight, \varnothing 75 mm only
- Tie rods DW26.5 reuseable
- Minimises refinishing
- Expensive couplers no more needed
- Determinded axle distance of 35 cm with Twin Holder 45°



The slim shaped anchor can be installed easily and quickly installed evenly through tight reinforce meshes in contrast to plate anchors and similars. This way the Hercules enables an installation in shortest time with a few refinishing.

Type GLB for ready grinded surfaces



The anchor position can be treated with a finishing trowel and well recognized again.

order number

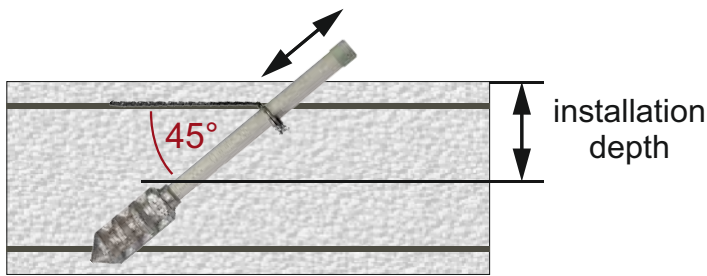


Anchor Hercules GLB, for ready grinded surfaces
plates greater than 45 cm
with Recess PE-45°
permitted load:
275 kN at 18 N/mm² concrete compressive strength
290 kN at 20 N/mm² concrete compressive strength
325 kN at 25 N/mm² concrete compressive strength

502652

Other lengths on request.

Type ESB for screed coated slabs



Because of its variable installation the anchorage can be used in slab of different thickness. The minimum installation depth is to be noted.

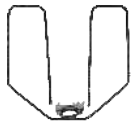
order number



Anchor Hercules ESB

with sealing cap
permitted load at installation depth 20 cm:
275 kN at 18 N/mm² concrete compressive strength
290 kN at 20 N/mm² concrete compressive strength
325 kN at 25 N/mm² concrete compressive strength

502651



Holder 45° Solo

Holder Solo required for installation in correct angularity 45°. Variable adjustment to concrete cover and installation depth.

502661



Holder 45° Twin, axle distance 35 cm

Required for installation two anchors in angularity 45° in determined axle distance 35 cm. Variable adjustment to concrete cover and installation depth.

502663



Sealing Plug

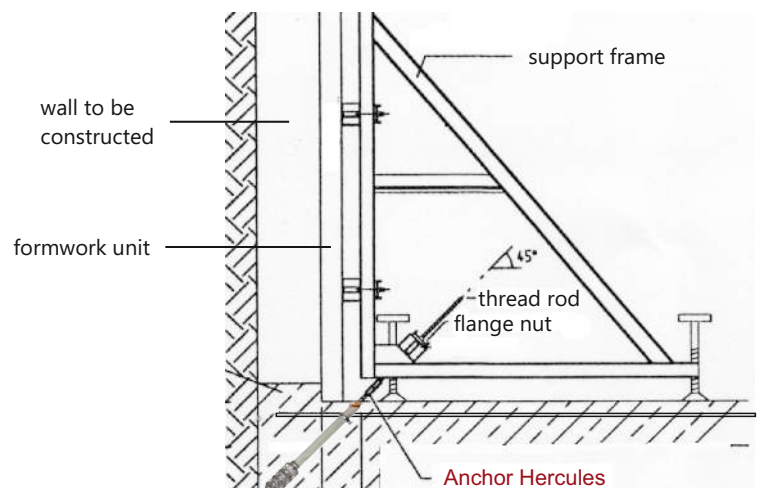
for sealing the duct tube and trapping the filling compound

502670

Other lengths on request.



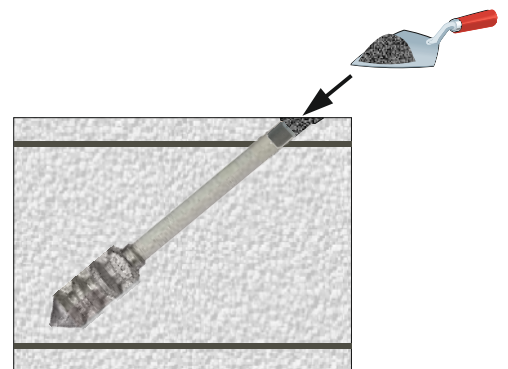
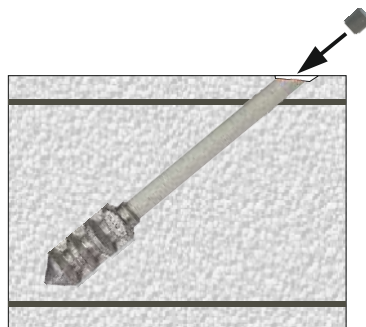
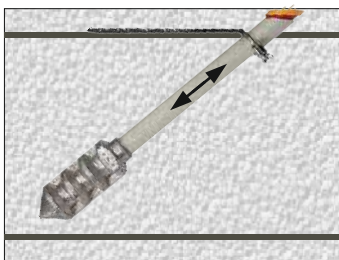
Cross section:



1. Insert the anchor with its duct tube into holder's clamp and screw down it. The clamp of the installation bowl is directed downwards. During this the level can be aligned infinitely variable referring the concrete cover requested. The trowel cap of the GLB-Type is adjusted flushing to concrete surface.
The sealing cap of the ESB-Type should protrude approximately 5 cm over concrete surface.
2. At anchor position stick the anchor through the upper reinforcement, align it and tie it to the meshes. Care for edge distance minimum 40 cm.
3. On application the GLB-Type adjust the trowel cap's level using a level string and the anchor position is ready for concrete casting.
4. Care for sufficient and careful vibrating. On application of ESB-Type screed fresh concrete surface close around to the duct tube.
In use of GLB-Type treat the anchor position with finishing trowel without hindrance.
5. Remove the sealing cap or the trowel cap with a suitable tool.
6. Reanchor the support frame with thread rods. Care for screwing in at full length.
Use rods in faultless condition only.
7. After achieving the necessary concrete pressure strength the anchor can be stressed accordingly.
8. After stripping the formwork system remove the thread rod. On application of EHS-Types saw off the duct tube flush to the concrete surface. In use of GLB-Types refill the cavity with filling compound and grind the position.

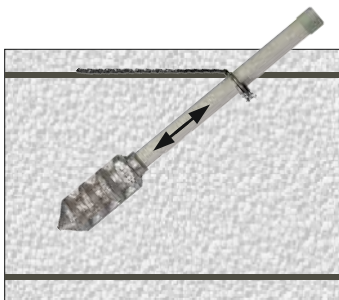
Type GLB

for ready grinded surfaces



Type ESB

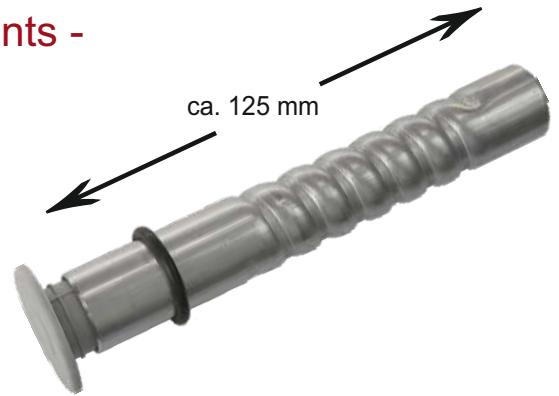
for screed coated slabs



- installation into existing concrete components -



for screwing in tie rod DW15
and fastening of:

- slab stop end formwork
- fall protection holders
- push pull props, supports, ...



permitted load of F_h 40 kN
at application of injection grout mortar

The instructions for use of the adhesive manufacturer must be observed!

		order number	pcs/unit
	Adhesive Sleeve ALU DW15 / L 12,5 cm für bore hole \varnothing 26 mm, with Sealing Plug	401513	unit: 100 pcs
	Sealing Plug PVC \varnothing 31 mm	131518	unit: 100 pcs

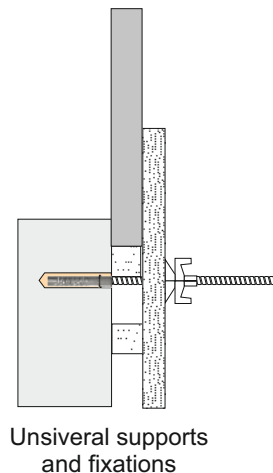
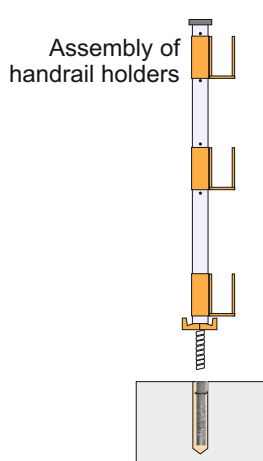
Application Instructions:

1. Drill a bore hole \varnothing 26 mm, 130 mm depth in correct position. Don't use any bore crown!
2. Blow out the bore hole twice, brush out twice and blow out twice again.
3. Fill in approximately 12 ccm injection grout mortar and **screw** in the sleeve by turning the sealing plug. The sealing ring cares for evenly spreading the adhesive.
 - **Pay attention to the prescribed eye and skin protection !** -
4. After achieving the mature time required remove the sealing plug and screw in an tie rod DW15.
5. The usage of the sleeve the sealing plug can be used as final closure.

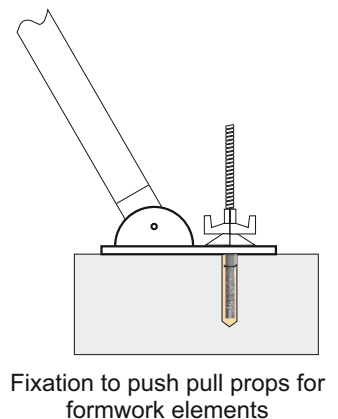
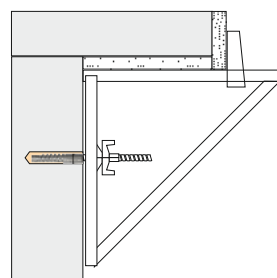
There are no general load performance specifications !

The tensile load is depending on the individual installation situation:

Concrete quality, concrete age, temperature and injection grout mortar mature time !



Fixation to slab stopend bars, trestless bars, angels, supports etc.



- for subsequent installation -

for reanchoring single sided formwork
in existing concrete components or rocks

- An alternative shell anchor:
quick installation no pretensioning
- Small bore hole diameters:
ø 26 mm for DW15 / ø 32 mm for DW20
- Installation with concrete cover up to 60 mm
- Solution to anchorage forgotten to be installed
- Minimum of refinishing
- Thread rods reusable



Tensile load permitted at application of injection grout mortar:

Adhesive Anchor Steel DW15: 85 kN after curing and concrete compressive strength 30 N/mm²

Adhesive Anchor Steel DW20: 120 kN after curing and concrete compressive strength 30 N/mm²

If the anchor ground is unknown tensile loads test are required.

The instructions for use of the adhesive manufacturer must be observed!

		order number	pcs/unit
	Adhesive Anchor STEEL DW15 / L 20 cm for bore hole ø 26 mm	501619	unit: 100 pcs
	Adhesive Anchor STEEL DW15 / L 32 cm with duct tube PVC, for bore hole ø 26 mm	401615	unit: 100 pcs
	Adhesive Anchor STEEL DW20 / L 28 cm for bore hole ø 32 mm	502128	unit: 100 pcs
	Adhesive Anchor STEEL DW20 / L 42 cm with duct tube PVC, for bore hole ø 32 mm	401620	unit: 100 pcs
	Sealing Plug DW15 , PVC ø 31 mm für adhesive anchors without duct tube	131518	unit: 100 pcs
	Sealing Plug DW20 , PVC ø 32 mm für adhesive anchors without duct tube	340012	unit: 50 pcs

Formwork Sleeves STEEL DW15

order number pcs/unit



Formwork Sleeve Steel DW15 / L 19 cm
F_h 46,9 kN at concrete compressive strength 20 N/mm²
F_h 51,5 kN at concrete compressive strength 24 N/mm²

501519 VE: 100 Stück



Schalungshülse Stahl DW15 / L 29 cm
F_h 85,0 kN at concrete compressive strength 17 N/mm²
F_h 90,0 kN at concrete compressive strength 30 N/mm²

501529 VE: 100 Stück



Cone Plug Ø 42 mm, for installation in wood formwork
concrete cover 12 mm, assemblies with
Double-Headed Nail 75 mm, zinc-plated, reuseable

401518 VE: 100 Stück



Sealing Plug PVC Ø 31 mm

131518 VE: 100 Stück

Formwork Sleeves STEEL DW20

order number pcs/unit



Formwork Sleeve Steel DW20 / L 28 cm
F_h 120 kN at concrete compressive strength 30 N/mm²

502028 unit: 100 pcs



Formwork Sleeve Steel DW20 / L 36 cm
F_h 140 kN at concrete compressive strength 30 N/mm²

502036 unit: 100 pcs



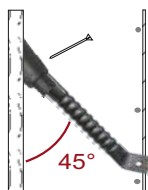
Cone Plug DW20 Ø 42 mm,
for installation in wood formwork, concrete cover 12 mm

340011 unit: 100 pcs



Sealing Plug PVC DW20 Ø 32 mm

340012 unit: 100 pcs



Fixation Cone 45° DW15
for mounting the Formwork Sleeves DW15

401551 unit: 100 pcs

The ideal tool for quickly bending of Round Steel Bars up to \varnothing 12 mm in angularity 90° by hand.

Use these advantages:

- Employment also at existing ceiling formworks
- Stepless raise and lower for reinforcement 10 - 35 cm
- Expensive measuring and finishing is unnecessary
- Round Steel Bars have no more to be mounted in pre-bent position and therefore do not disturb at formwork.

TEB12 robust construction, galvanized
order number 801201

**Original TEB 12 only real with its
Bending Abutment acc. to DIN 1045**



Bending Round Reinforcement Bars:
That way ... or this way?



By the TEB12 in shortest time the
best result
for contractors and structural engineers!

Application - Always start from the left side:

1. Measure the reinforcement level to the Bending Abutment and adjust by twisting the Thread Bar and lock the Wing Nut.
2. Flip the Retaining Bar in the horizontal position and put the TEB12 at the round bar to be bended. The Retaining Bar is on the front side of the next round bar to the right. It prevents canting the rods to each other.
3. Push down Bending Lever until the round bar has reached the required position and simultaneously press towards the Adjusting Peace.

The practical device for

- Installation
- Transport
- Storage

for Rolled Grounding Tapes.

- 2 crane lugs for easy transportation
- hot zinc dipped
- ball bearing rollers for easy unrolling
- suitable to steel tapes up to 50 mm width and 750 mm roll diameter



Type with **Runners**
for moving on the
reinforcement

order number
704004



Type movable with **Wheels**
on level grounds
and a foldable handgrip

order number
704005

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