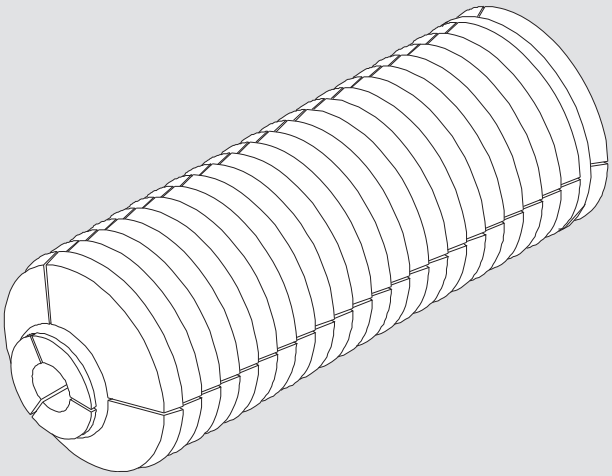
Rock Anchor HB DW 15

Item no. 108795

Instructions for Use



Edition 09/2010

Applications

For subsequent anchorage of formwork in concrete or rock. Especially for single-side formwork or use with Brace Frames.

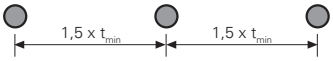
Construction approvals:
– Tie Rod ST 900/1100: Z-12.5-97
– Rock Anchor: Z-21.6-1778

Table
Anchoring depth t_{min} [mm] of the Rock Anchor HB DW 15 depending on the concrete strength.

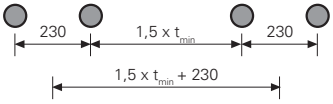
	Concrete strength $\beta\omega$ [N/mm²]			
	15	25	35	45
As individual anchor Minimum drilled hole spacing 1.5 x t_{min} see Plan 1	380	300	260	240
As anchorage for brace frames* Minimum drilled hole spacing 1.5 x t_{min} + 230 mm see Plan 2	470	360	300	270

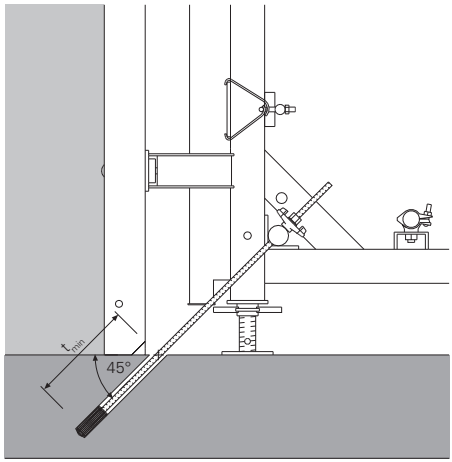
*With Double Anchor Tie Yoke DSW, Item no. 027520. Tie position spacing = 230 mm.

Plan 1:



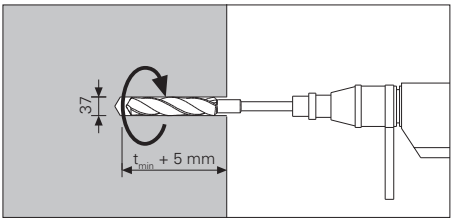
Plan 2:



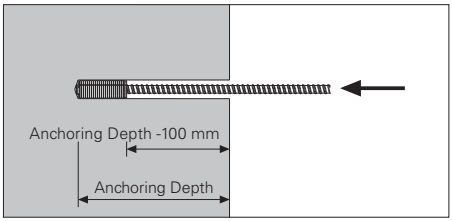


Note:
Basically every anchor must be checked with a test load of 80 kN using the PERI Pretension Jack.

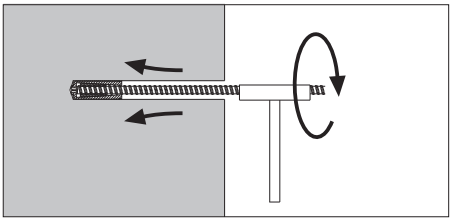
90° Assembly



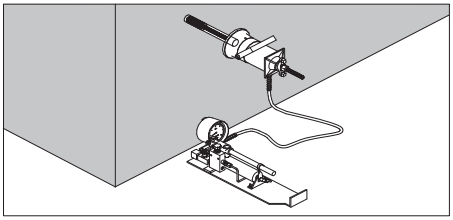
1. Drill hole ø 37 mm, e.g. with Hilti TE-y 37/575, and ensure hole is clean.
Drilled hole depth ≥ t_{min} + 5 mm according to the table.



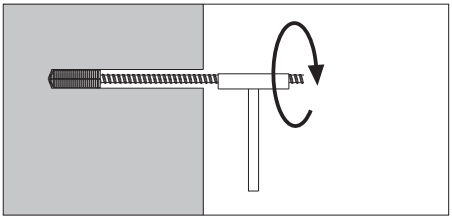
2. Turn tie rod approx. one rotation into dowel cone. After this, firmly push in the entire unit up to the end of the drilled hole. The cone should now also rest against the end of the dowel. Check the anchoring depth with a yard-stick.



3. Screw in tie rod by means of the tie rod wrench up to the end of the dowel. The tie rod thereby supports itself at the end of the dowel and presses the cone against the dowel fins. These expand and are pressed against the wall of the drilled hole. Expansion continues until the anchor sits firmly in the hole.

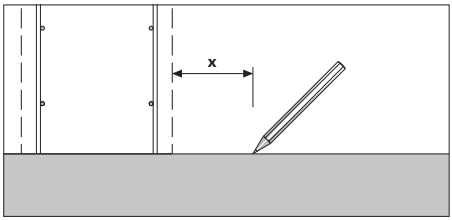


4. Pretension the Rock Anchor with the Pretension Jack, Item no. 030460 with 80 kN. The pretensioning also prevents slipage when the final load is reached.

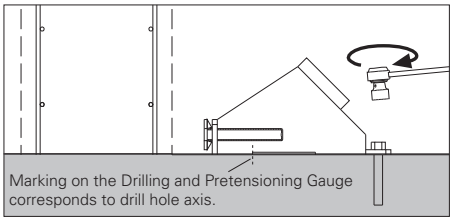


5. After pretensioning the tie rod with the Tie Rod Wrench DW 15, Item no. 031070, screw in again up to the end of the dowel. This prevents the rock anchor being accidentally detached when placing the formwork. Re-check the anchoring depth.

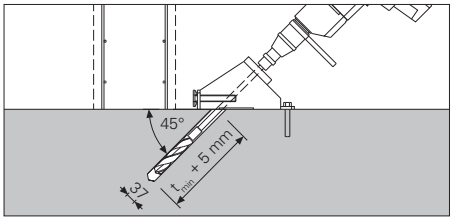
45° Assembly for Brace Frames



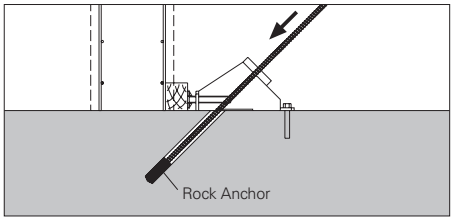
1. Mark anchor spacing x from the wall edge. (spacings x: see also brace frame brochure)



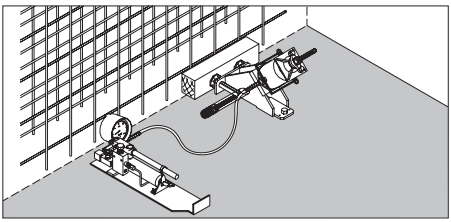
2. Align the Drilling and Pretensioning Gauge, Item no. 102390, with help of the markings and mount on floor using heavy-duty dowels.



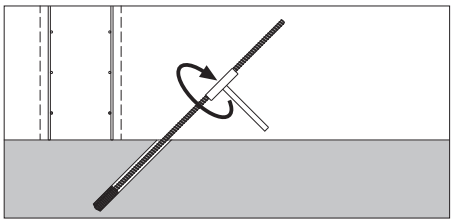
3. Drill ø 37 mm hole and ensure hole is clean afterwards. Drilled hole depth ≥ t_{min} + 5 mm according to the table.



4. Position Rock Anchor HB DW 15 according to instructions for 90° assembly. Spindle out adjustable spindles on the Drilling and Pretensioning Gauge until they rest against the reinforcement, place timber in between.

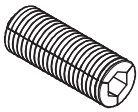


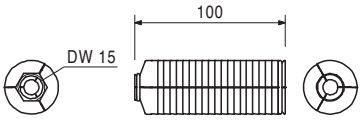
5. Position hydraulic cylinder of the Pretension Jack on the contact surface of the Drilling and Pretensioning Gauge and fix tie rod. Pretension the Rock Anchor with the Pretension Jack, with 80 kN.



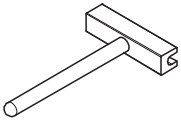
6. After pretensioning, screw in tie rod up to the end of the dowel. This prevents the rock anchor being accidentally detached when placing the formwork.

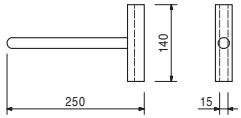
Item no.	Weight kg		
108795	0,450	**Rock Anchor HB DW 15** For subsequent anchorage with DW 15 tie rod. Diameter drill hole 36.5 - 38 mm.	**Technical Data** Permissible load 90 kN. Dependent on rock or concrete strength and depth of embedment. **Safety instructions** Follow Instruction for Use.



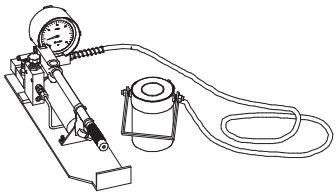


031070	1,260	**Tie Rod Wrench 15, galv.** For easy handling of DW 15 tie rods.	

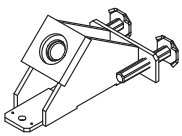


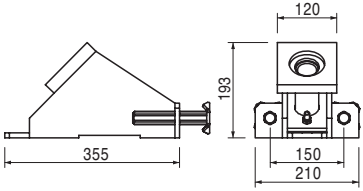


030460	60,000	**Pretension Jack for DW 15/20/26** For pretensioning tie rods, pulling out of embedded tie rods from concrete and for smooth concrete joints. Completed in a metal box.	**Complete with** 1 pc. 030663 Adapter I 1 pc. 030664 Adapter III **Technical Data** Permissible tension force 300 kN. **Safety instructions** Follow Instruction for Use.



102390	6,270	**Drilling and Pretensioning Gauge 45°** For drilling and pretensioning DW 15 anchor points inclined at 45° (used for Brace Frames SB).	





The optimal System for every Project and every Requirements



Wall Formwork



Column Formwork



Slab Formwork



Climbing Systems



Tunnel Formwork



Bridge Formwork



Shoring Systems



Construction Scaffold



Facade Scaffold



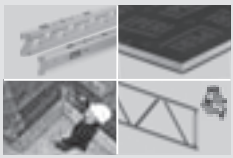
Industrial Scaffold



Access



Protection Scaffold



System-Independent Accessories



Services

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