PTB APPROVAL SYMBOL

PTB
S 818

The AM35 Stud Driver is type-approved and system-tested. The tool therefore bears the approval symbol of the PTB in square form with the approval number S 818.

Faults discovered during use must be reported to the responsible head of the approvals authority (PTB) and to the office of the Permanent International Commission for Firearms Testing (C.I.P).

MATERIAL SUITABILITY

Fixing in concrete:

Studs marked with this pictogram are suitable for applications in concrete, solid brick and solid lime-sand brick.

Effective anchoring depth (h_{ef})

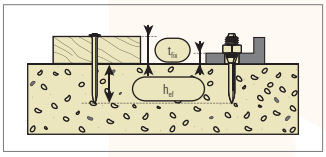
For fixtures in concrete, the effective anchoring depth (hef) is the determining factor for the selection of the appropriate fastener element. The effective anchoring depth (hef) is dependent on the compressive strength of the concrete.

Compressive strength of concrete	Effective anchoring depth (hef)
C16/20 (3.000 psi)	30 - 35 mm * - (1 3/16 "- 1 6/16")*
C20/25 (3.500 psi)	25 - 30 mm * - (1" - 1 3/16")*
C30/37 (5.500psi)	20 - 25 mm * - (13/16" - 1")*

* The values shown are indicative values. Several test fixings should be carried out in the base material to determine the exact values for the installation situation.

Correct shaft length of the fastener element

The correct shaft length (L) is determined by the thickness of the part to be fixed (t_{fix}) and the effective anchoring depth (hef) using the following formula: **$L = t_{fix} + h_{ef}$**



For fixtures with stud bolts, the necessary shaft length corresponds to the effective anchoring depth (h_{ef}). The thickness of the part to be fixed(t_{fix}) does not have to be taken into consideration.

Anchormark studs marked with this pictogram are supplied in magazines with 10 studs and can only be used in stud drivers having a suitable magazine.

Fixing in steel:

Studs marked with this pictogram are suitable for applications in steel with a thickness ≧ 4 mm (0,157").

Effective anchoring depth (h_{ef})

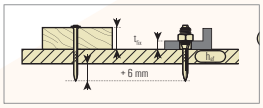
For fixtures in steel, the effective anchoring depth (hef) is the determining factor for the selection of the appropriate fastener element. The effective anchoring depth (hef) is dependent on the tensile strength of the steel.

Tensile strength of the steel (f_{uk})	Effective anchoring depth (h_{ef})
360 N/mm² (52.200 psi)	12 mm (1/2")
510 N/mm² (74.000 psi)	10 mm (3/8")

* The values shown are indicative values. Several test fixings should be carried out in the base material to determine the exact values for the installation situation.

Correct shaft length of the fastener element

The correct shaft length (L) is determined by the thickness of the part to be fixed (t_{fix}) and the effective anchoring depth (h_{ef}). If proper penetration of the base material is desired, an allowance of 6 mm (1/4") must be made (see following formulae).



Correct shaft length without penetration of the base material: **$L = t_{fix} + h_{ef}$**
Correct shaft length with proper penetration of the base material: **$L = t_{fix} + h_{ef}$ + 6 mm (1/4")**

For fixtures with stud bolts, the necessary shaft length corresponds to the effective anchoring depth (hef) plus 6 mm (1/4") allowance. The thickness of the part to be fixed (tfix) does not have to be taken into consideration.
$L = h_{ef}$ + 6 mm (1/4").

POWER DRIVE AM35 STUD DRIVER (8 MM TOOL - 5/16" TOOL)

PTB
S 818

DESCRIPTION

The Power Drive AM35 Stud Driver is a safe tool that can be employed for a wide range of applications by professional, certified users for driving elements of the AnchorMark accessories product range developed specially for this field of application into concrete, steel, solid brick and solid lime-sand brick.

YOUR BENEFITS AT A GLANCE

- Optimum adaptation
  – 3 cartridge strengths and 6-step power control
- Extremely flexible
  – Large selection of fastener elements for a wide range of fixing applications
- Short standstill times
  – Easy to service
- High performance
  – 62 mm long fastener elements can be driven without prenailing

TECHNICAL DATA

Type	Art. No.	Weight		Tool length max.		Maximum length of the fastener elements - max.		Recommended maximum driving frequency	Power control
		[kg]	[lb]	[mm]	[in]	[mm]	[inch]	[studs/h]	
AM35	510000	2,35	5,18	340	13,4	62	2 7/16"	500	3 cartridge strengths and 6-step power control by means of regulation knob

SPARE PARTS / ACCESSORIES

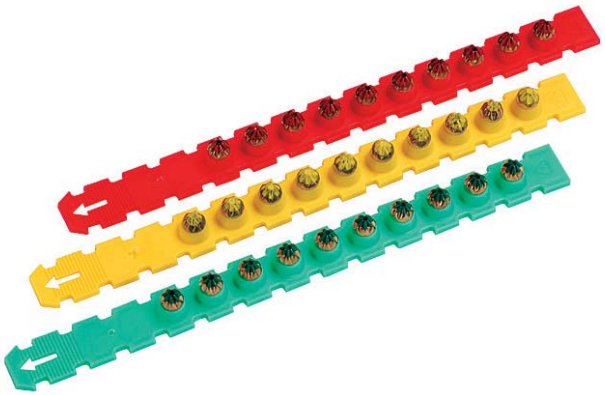
Item	Art. No.	Description	Packaging [Qty.]
1	510003	Stabilizer	1
2	510005	Shear clip	5
3a-3e	510256	AM35 cleaning kit: Brushes (4), Allen key (1)	1
4	510017	Steel ball	5
5	510258	Ear protector with strap	1
7	510001	AM35 transport case	1
1)	510002	AM35 operating manual, EN	1
1)	510250	AM35 operating manual, DE	1
1)	510251	AM35 operating manual, PT	1
1)	51052	AM35 operating manual, ES	1

PTB
S 818

SAFETY CARTRIDGE STRIPS FOR AM35

DESCRIPTION

- Cartridges with 3 different power classes are available for the Power Drive AM35 Stud Driver.
- The cartridges can be distinguished by their colour.
- The power class of the safety cartridges is shown as a number (see table / power class) on each cartridge package.
- The higher the number, the higher the power class.
- The power class is also indicated by the colour of the package and label, a colour mark on the tip of each cartridge and the plastic strip.
- For users with colour blindness, a combination of numbers and colours is used on the package.



SAFETY CARTRIDGE STRIPS

Type	Art. No.	Size [mm]	Size [inch]	Color of the cartridges	Power of the cartridges [DIN 7260]	Power class [DIN 7260 / ANSI A10.3-2006]	Packaging [Qty.]
GREEN	510222	6,8/11	.27	Green	Low Load	3 / 3	100
YELLOW	510223	6,8/11	.27	Yellow	Medium Load	4 / 4	100
RED	510225	6,8/11	.27	Red	High Load	6 / 5	100

STUD AN

Stud AN:

Smooth shaft
High-strength steel
Ballistic tip
Mechanically galvanised (minimum surface thickness 8 µm)

Stud AN

Type	Art. No.	Head diameter [mm]	Head diameter [inch]	Head thickness [mm]	Head thickness [inch]	Shaft diameter [mm]	Shaft diameter [inch]	Shaft type	Shaft length [mm]	Shaft length [inch]	Max. thickness of part to be fixed in concrete C16/20 - 3.000 psi t_{fix} [mm]	Max. thickness of part to be fixed in concrete C16/20 - 3.000 psi t_{fix} [inch]	Maximum thickness of part to be fixed in concrete C20/25 - 3500 psi t_{fix} [mm]	Maximum thickness of part to be fixed in concrete C20/25 - 3500 psi t_{fix} [inch]	Max. thickness of part to be fixed in concrete C30/37 - 5.500 psi t_{fix} [mm]	Max. thickness of part to be fixed in concrete C30/37 - 5.500 psi t_{fix} [inch]	Max. thickness of part to be fixed in steel f_{uk} 360-510 N/mm² f_{uk} 52.200 - 74.000 psi t_{fix} [mm]	Max. thickness of part to be fixed in steel f_{uk} 360-510 N/mm² f_{uk} 52.200 - 74.000 psi t_{fix} [inch]	Packaging [Qty.]
AN19	510155	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	19	3/4"	-	-	-	-	-		7	1/4"	200
AN22	510156	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	22	7/8"	-	-	-	-	2	1/16"	10	3/8"	200
AN27	510157	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	27	1 1/16"	-	-	2	1/16"	7	1/4"	15	9/16"	200
AN32	510158	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	32	1 1/4'	2	1/16"	7	1/4"	12	1/2"	20	13/16"	100
AN37	510159	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	37	1 7/16"	7	1/4"	12	1/2"	17	11/16"	25	1"	100
AN42	510160	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	42	1 10/16"	12	1/2"	17	11/16"	22	7/8"	30	1 3/16"	100
AN47	510161	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	47	1 19/16"	17	11/16"	22	7/8"	27	1 1/16"	35	1 3/8"	100
AN52	510162	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	52	2 1/52*	22	7/8"	27	1 1/16"	32	1 1/4"	40	1 9/16"	100
AN57	510163	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	57	2 1/4"	27	1 1/16"	32	1 1/4"	37	1 7/16"	45	1 3/4"	100
AN62	510164	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	62	2 7/16"	32	1 1/4"	37	1 7/16"	42	1 10/16"	50	1 15/16"	100
AN72	510165*	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	72	2 7/16'	42	1 10/16"	47	1 14/16"	52	2 1/52*	60	2 3/8"	100
AN97	510166*	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	97	3 13/16"	67	5/8'	72	1 13/16"	77	3 1/32"	85	3/18"	100

* These fastener elements exceed the maximum useful length of the fastener guide and have to be prenailed.

FASTENER ELEMENTS FOR POWER DRIVE AM35

STUD ANS

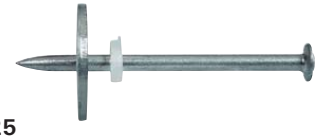
Stud ANS:

- Knurled shaft for maximum holding force in steel
- High-strength steel
- Ballistic tip
- Mechanically galvanised (minimum surface thickness8 µm)

Stud ANS

Type	Art. No.	Head diameter		Head thickness		Shaft diameter		Shaft type	Shaft length		Max. thickness of part to be fixed in concrete C16/20 - 3.000 psi t_{fix}		Maximum thickness of part to be fixed in concrete C20/25 - 3500 psi t_{fix}		Max. thickness of part to be fixed in concrete C30/37 - 5.500 psi t_{fix}		Max. thickness of part to be fixed in steel f_{uk} 360-510 N/mm² f_{uk} 52.200 - 74.000 psi t_{fix}		Packaging
		[mm]	[inch]	[mm]	[inch]	[mm]	[inch]		[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[Qty.]
ANS 16	510167	8,15	0,321"	1,7	0,067"	3,7	0,146"	knurled	16	5/8"	-	-	-	-	-	-	4	5/32"	200
ANS 19	510168	8,15	0,321"	1,7	0,067"	3,7	0,146"	knurled	19	3/4"	-	-	-	-	-	-	7	1/4"	200

STUD WITH WASHER AN - W25



Stud with washer AN-W25:

- Smooth shaft
- High-strength steel
- Ballistic tip
- Mechanically galvanised (minimum surface thickness 8 µm)

Stud with washer AN-W25

Type	Art. No.	Head diameter		Head thickness		Shaft diameter		Shaft type	Shaft length		Max. thickness of part to be fixed in concrete C16/20 - 3.000 psi t_{fix}		Maximum thickness of part to be fixed in concrete C20/25 - 3500 psi t_{fix}		Max. thickness of part to be fixed in concrete C30/37 - 5.500 psi t_{fix}		Max. thickness of part to be fixed in steel f_{uk} 360-510 N/mm² f_{uk} 52.200 - 74.000 psi t_{fix}		Packaging
		[mm]	[inch]	[mm]	[inch]	[mm]	[inch]		[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[Qty.]
AN 22 W25	510182	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	22	7/8"	-	-	-	-	2	1/16"	10	3/8"	200
AN 27 W25	510183	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	27	1 1/16"	-	-	2	1/16"	7	1/4"	15	9/16"	200
AN 32 W25	510184	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	32	1 1/4'	2	1/16"	7	1/4"	12	1/2"	20	13/16"	200
AN 37 W25	510185	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	37	1 7/16"	7	1/4"	12	1/2"	17	11/16"	25	1"	100
AN 42 W25	510186	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	42	1 10/16"	12	1/2"	17	11/16"	22	7/8"	30	1 3/16"	100
AN 47 W25	510187	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	47	1 19/16"	17	11/16"	22	7/8"	27	1 1/16"	35	1 3/8"	100
AN 52 W25	510188	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	52	2 1/52*	22	7/8"	27	1 1/16"	32	1 1/4"	40	1 9/16"	100
AN 62 W25	510189	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	62	2 7/16"	32	1 1/4"	37	1 7/16"	42	1 10/16"	50	1 15/16"	100
AN 72 W25	510190	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	72	2 7/16'	42	1 10/16"	47	1 14/16"	52	2 7/16"	60	2 3/8"	100

STUD WITH CEILING BRACKET ANC

Stud with standard ceiling bracket ANC:

- Smooth shaft
- High-strength steel
- Ballistic tip
- Mechanically galvanised (minimum surface thickness 8 µm)
- With integrated top hat
- High setting quality

Stud with standard ceiling bracket ANC

Type	Art. No.	Head diameter		Head thickness		Shaft diameter		Shaft type	Shaft length		Max. thickness of part to be fixed in concrete C16/20 - 3.000 psi t_{fix}		Maximum thickness of part to be fixed in concrete C20/25 - 3500 psi t_{fix}		Max. thickness of part to be fixed in concrete C30/37 - 5.500 psi t_{fix}		Max. thickness of part to be fixed in steel f_{uk} 360-510 N/mm² f_{uk} 52.200 - 74.000 psi t_{fix}		Packaging
		[mm]	[inch]	[mm]	[inch]	[mm]	[inch]		[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[Qty.]
ANC 27	510191	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	27	1 1/16"	-	-	-	-	-	-	-	-	200
ANC 32	510192	8,15	0,321"	1,7	0,067"	3,7	0,146"	smooth	32	1 1/4"	-	-	-	-	-	-	-	-	200