

fischer 

HybridPower.
Plastic meets steel.
Strong, safe & simple.



HybridPower.

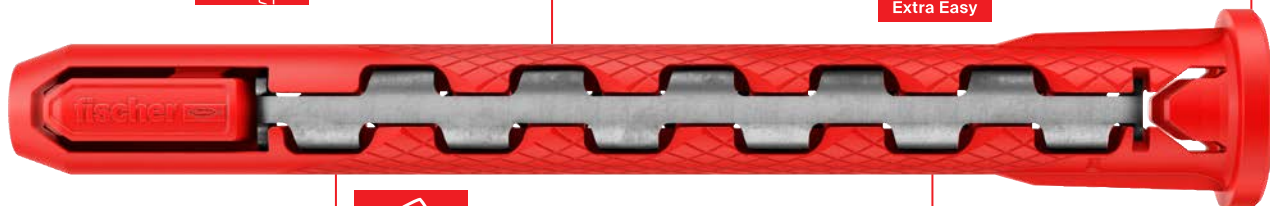
The best of both worlds. Safe like steel, easy to install like plastic.



Extra safety:
metal power wedges
interlock with the building
material.

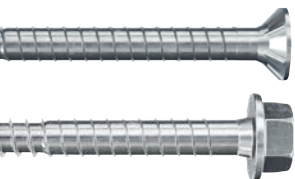


Easy installation without
setting tools like a conven-
tional plastic plug.



Maximum load-bearing capacity
guaranteed by the combination
of plastic & steel.

Safe in the event of fire due
to the metal component.



Countersunk and hexagonal head screw:

The fixing point can be released at any
time by simply removing the screw.
The hexagonal head of the screw offers an
appealing and straight finish to the fixing
point, without protruding threaded rod.



Plastic plug
DuoPower 10x50

max. kg¹⁾
215



Frame fixings
SXRL 10x80
(at hv = 70 mm)

max. kg²⁾
258



HybridPower 10x90

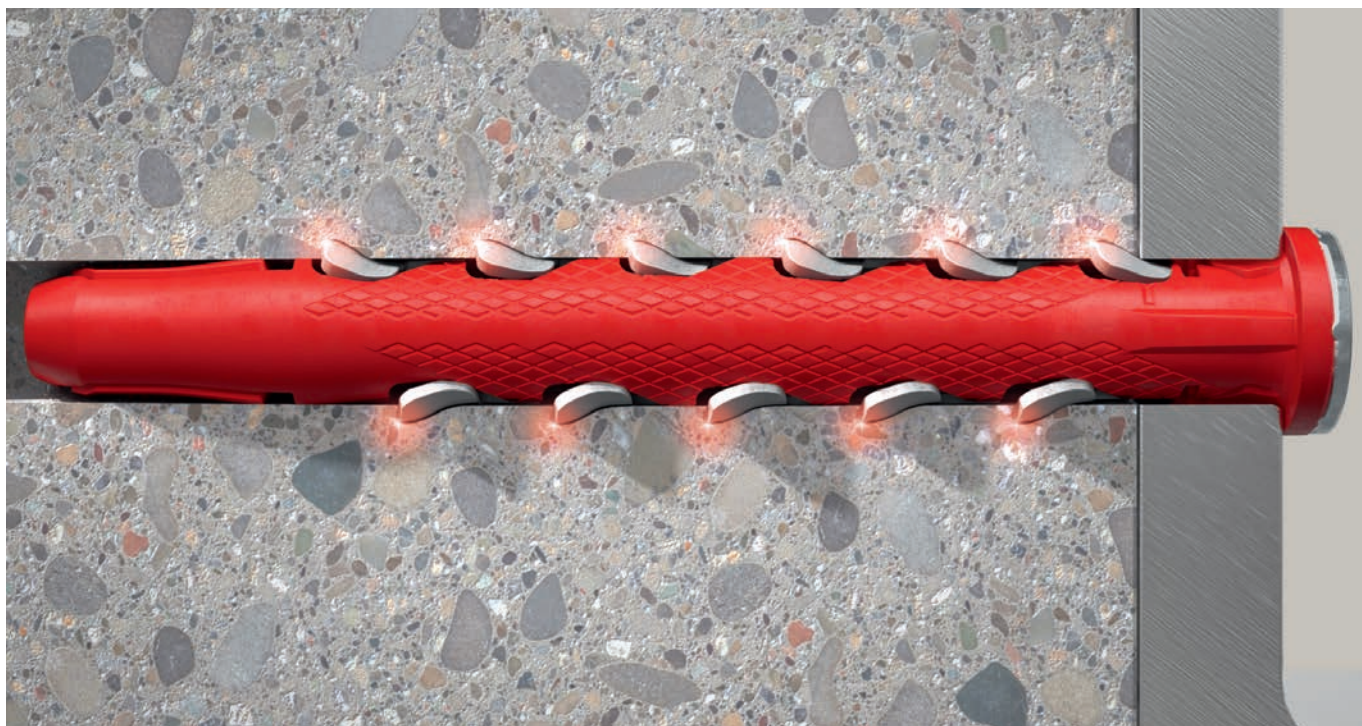
max. kg¹⁾
462



Steel anchor
FAZ II Plus 10/10

max. kg²⁾
630

1) Recommended loads in concrete \geq C20/25 2) Approved loads in concrete \geq C20/25



Perfect fit and hold:

- The flexible plastic part expands against the borehole wall, ensuring a perfect fit.
- The metal skeleton spreads and the power wedges interlock with the building material, ensuring a perfect hold.

The advantages at a glance

- The HybridPower can be installed quickly and easily, just like a conventional plastic plug. It can be inserted by hand and no special tools or torque wrench are required.
- Thanks to the metal component, the plug also holds heavy loads and offers a high load-bearing capacity and additional safety.
- The HybridPower is universally applicable and can be used in solid and hollow building materials. The flexible plastic expands in any building material.
- The metal component also withstands fire and offers certified safety in case of fire.
- The universal plug head enables the use of the plug for pre-positioned and push-through installation and thus offers maximum flexibility in application.
- The fixing point can be released at any time by simply removing the screw.

Recommendations

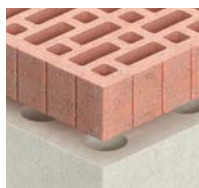
Suitable for building materials such as:



Concrete



Solid brick,
solid sand-lime brick



Vertically perforated
brick, perforated sand-
lime brick



Aerated concrete



*“When the equipment is securely fastened,
I feel very safe and can concentrate fully on
my workout.”*

Niklas Kaul · German decathlete, World and European Champion

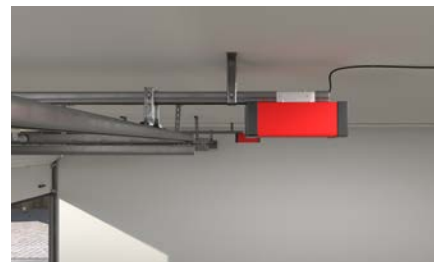
Applications, function and Installation.



Cable tray



Kitchen hanging cabinets



Garage door opener



Pull-up bars



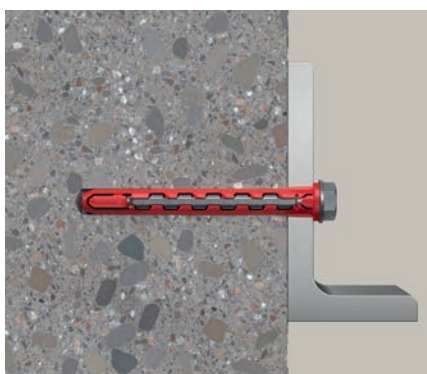
TV mountings



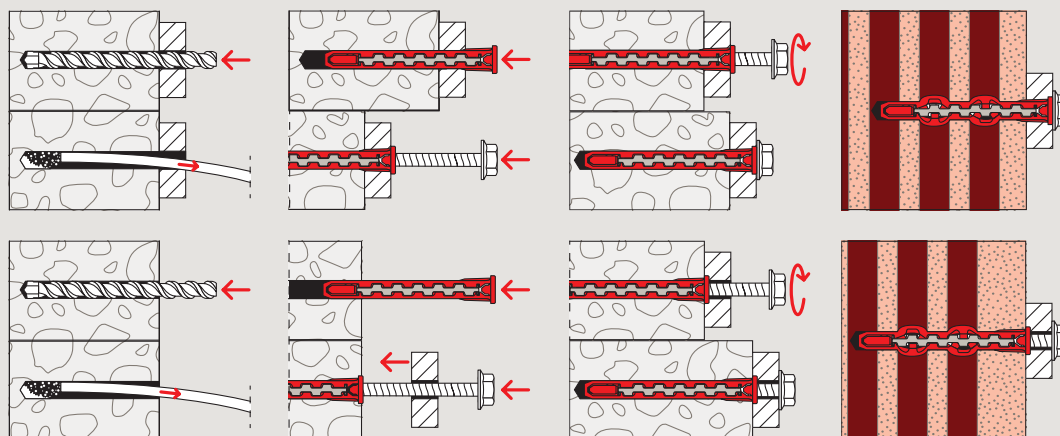
Tool cabinet

Function

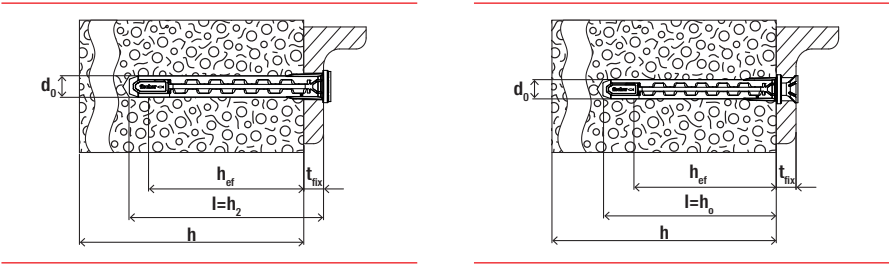
- The HybridPower is suitable for pre-positioned and push-through installation.
- The plug is pushed directly into the drill hole by hand or with a few light hammer blows and then expands by screwing the screw into the building material.
- Countersunk head screws are recommended for timber constructions.
- Hexagon head screws are recommended for metal constructions.



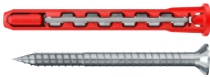
Installation steps



Assortment

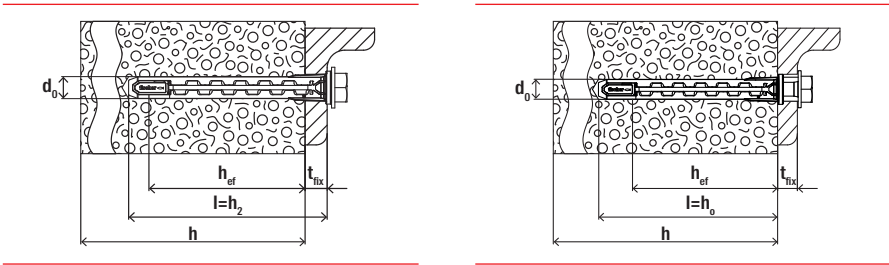


HybridPower T

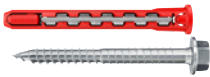


HybridPower T

		Drill hole diameter	Anchor length	Min. drill hole depth for push-through	Screw dimension	Min. drill hole depth	Min. Anchorage depth	Max. fixture thickness	Drive	Sales unit
	Item.-No.	d ₀ [mm]	l [mm]	h ₂ [mm]	d _s x l _s [mm]	h ₀ [mm]	h _{ef} [mm]	t _{fix} [mm]		[pcs]
Item										
HybridPower 10 x 90 T K	577393	10	90	90	7.0 x 87	90	70	10	TX40	1
HybridPower 10 x 90 T (10)	577391	10	90	90	7.0 x 87	90	70	10	TX40	10
HybridPower 10 x 90 T	577365	10	90	90	7.0 x 87	90	70	10	TX40	50



HybridPower FUS



HybridPower FUS

		Drill hole diameter	Anchor length	Min. drill hole depth for push-through	Screw dimension	Min. drill hole depth	Min. Anchorage depth	Max. thickness	Drive	Sales unit
	Item.-No.	d ₀ [mm]	l [mm]	h ₂ [mm]	d _s x l _s [mm]	h ₀ [mm]	h _{ef} [mm]	t _{fix} [mm]		[pcs]
Item										
HybridPower 10 x 90 FUS K	577392	10	90	90	7.0 x 89	90	70	10	TX40 / SW 13	1
HybridPower 10 x 90 FUS (10)	577390	10	90	90	7.0 x 89	90	70	10	TX40 / SW 13	10
HybridPower 10 x 90 FUS	577364	10	90	90	7.0 x 89	90	70	10	TX40 / SW 13	50

Loads

HybridPower			
Recommended loads ¹⁾ for a single anchor.			
Type			HybridPower 10x90 Special screw
Screw diameter		[mm]	7
Min. edge distance in concrete	c_{\min}	[mm]	65
Recommended loads F_{rec} ²⁾ in the respective base material			
Concrete	$\geq \text{C20/25}$	[kN]	4.62
Light-weight concrete solid block	$\geq \text{Vbl 2}$	[kN]	0.80
Solid brick	$\geq \text{Mz 10}$	[kN]	1.60
Solid sand-lime brick	$\geq \text{KS 10}$	[kN]	2.50
Aerated concrete	$\geq \text{AAC 2}$	[kN]	0.40
Sand-lime hollow block	$\geq \text{KSL 10 } (\rho \geq 1.2 \text{ kg/dm}^3)$	[kN]	1.20
Vertically perforated brick	$\geq \text{HLz 10 } (\rho \geq 0.9 \text{ kg/dm}^3)$	[kN]	0.50

¹⁾ Required safety factors are considered. Valid for installation and use in dry base material for temperatures in the substrate up to +24 °C (resp. short term up to +40 °C).

²⁾ Valid for tensile load, shear load and oblique load under any angle.

Dealer:

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fischer stands for

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