

SAFEMET SECURITY PIN

Stainless Steel A4 Earthmet Ref: SAPIN 001

NATIONAL GRID APPROVED

Description

wedge anchor with an even easier installation. It is simply

The SAFEMET SECURITY PIN combines the advantages of a

hammered through the fixture into the concrete. When the load is applied it expands automatically and anchors to the concrete.

Advantages

- ETA approval for redundant fastenings in cracked concrete to brick and concrete structures.
- Fast and simple mounting - Ceiling constructions, piping, cladding etc.
- Very small edge distances and spacing
- Loads up to 2,81 kN **Range of loading: 0,95 kN - 2,81 kN**

Applications

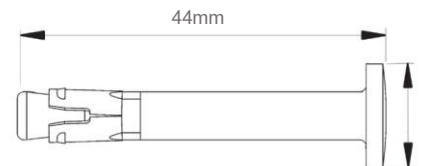
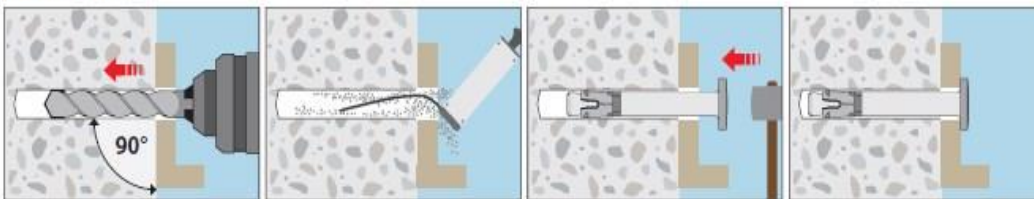
- An A4 security pin to secure both Copper and Aluminium Tape

Range of concrete quality: C12/15 - C50/60

Extract from Permissible Service Conditions of ETA-11/0240

Loads and performance data	SAFEMET SECURITY PIN A4			
	cracked / non-cracked concrete			
Effective anchorage depth	hef	[mm]	30	
Approved loads (Picture 1)	C12/15 zul. F	[kN]	1,90	
	C20/25 - C50/60 zul. F	[kN]	2,81	
Approved loads (Picture 2)	C12/15 zul. F	[kN]	0,95	
	C20/25 - C50/60 zul. F	[kN]	1,19	
Approved bending moments	zul. M	[Nm]	7,3	
Maximum tension load [kn] in fire tests according to DIN 4102-2 for the fire resistance classes	R 30 (30 min)	R 60 (60 min)	R 90 (90 min)	R 120 (120 min)
	N-K	0,90	0,80	0,60

Installation



Multiple use for non-structural applications according to ETAG 001, part 6. Total safety factor as per ETAG

001 included (γ_M and γ_F). Depending on national rules, the maximum load per fixing point can be lower than

the approved load of the anchor. Approved loads per fixing point for the different countries are regulated in

ETAG 001, part 6.

The approved load F is for one fixing point. One fixing point can be:

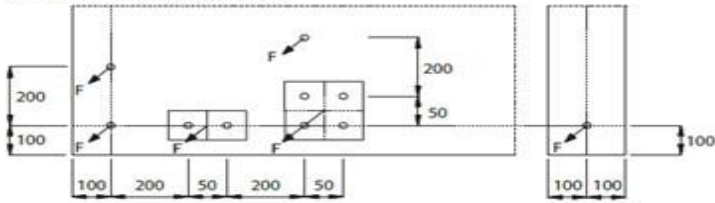
If the spacing in a fixing point is greater than or equal to the respective

- **Single anchor**, spacing between the fixing points, the characteristic resistances apply to every single anchor.

- **Group of four anchors** with $s > 50$ mm

Respective spacing and edge distances [mm]:

Picture 1: maximum loads



Picture 2: minimum spacing and edge distance

