

## CATALOG

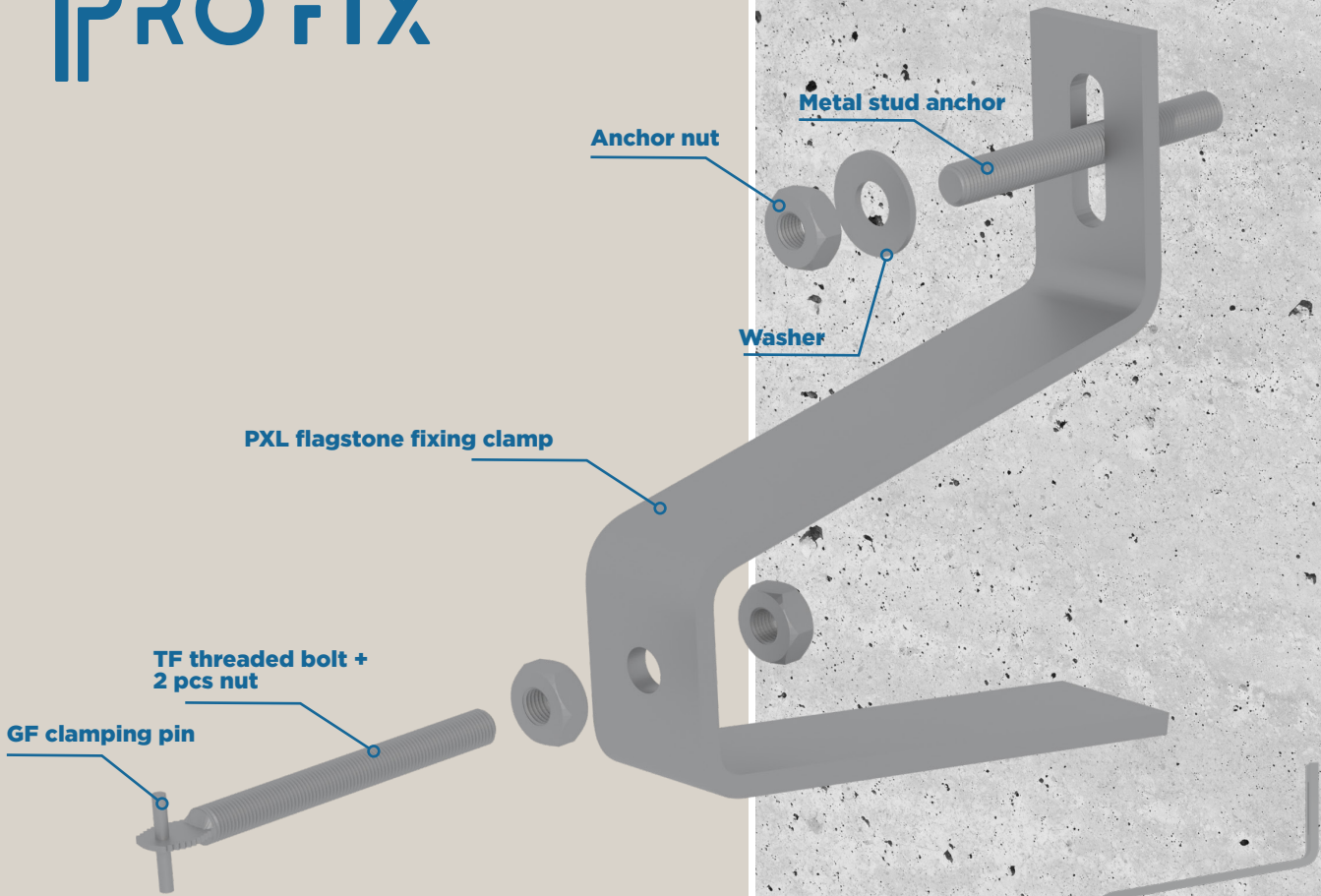
ProFix system trapezoid - clamp for flagstone façade

TYPE: **PX**

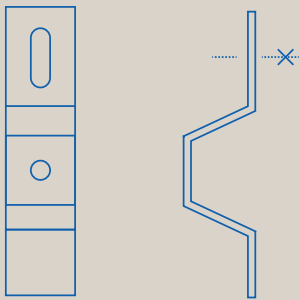
**ÉMI** NATIONAL TECHNICAL ASSESSMENT: A-124/2018



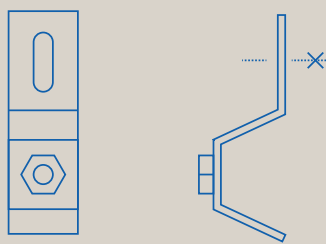
# HR PROFIX



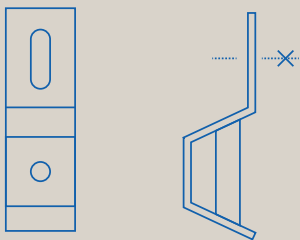
## Clamp types



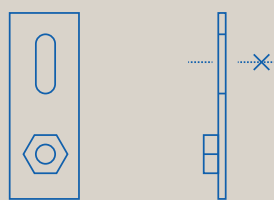
**PXL/T with plinth**



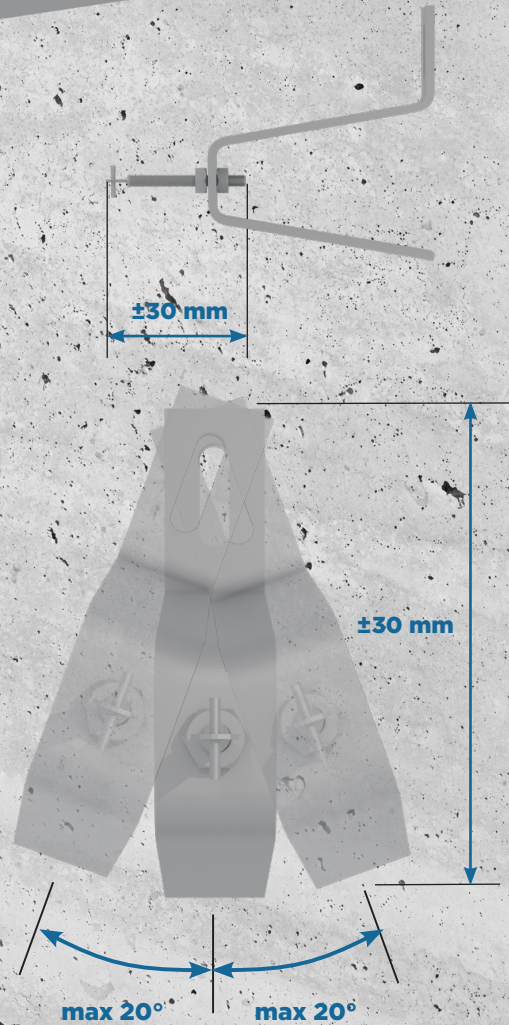
**PXS with welded nut**



**PXL/G with braced rip**



**PXR with pressed rotary nut**



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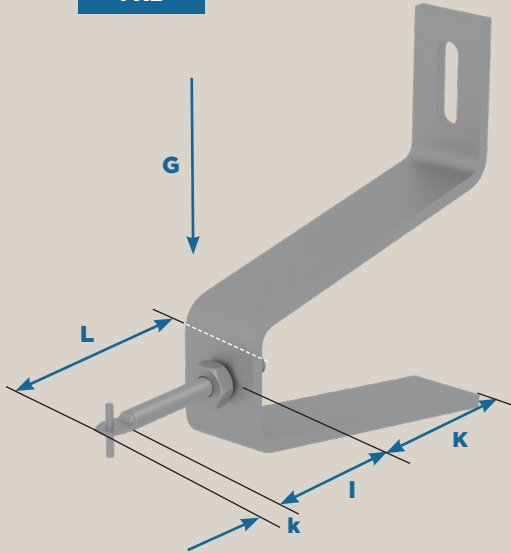
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**PXL GENERAL CLAMP**

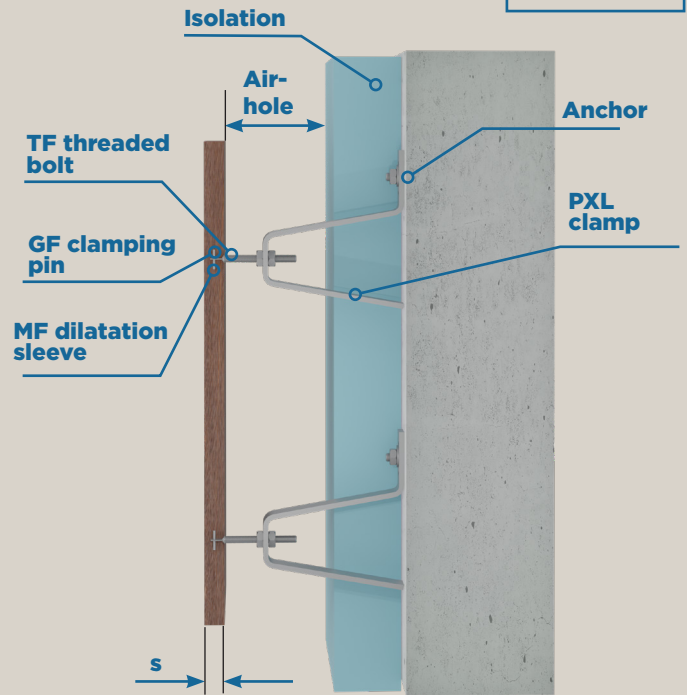
**PXL**



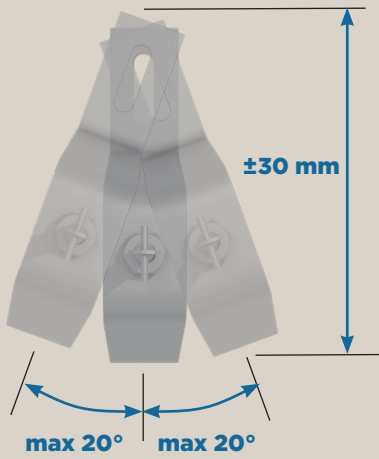
**PXR**



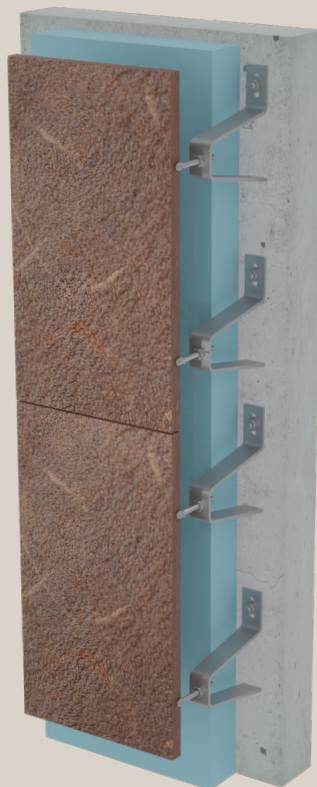
**SIDE VIEW**



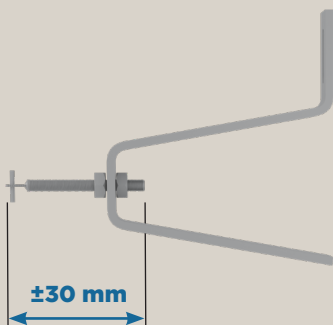
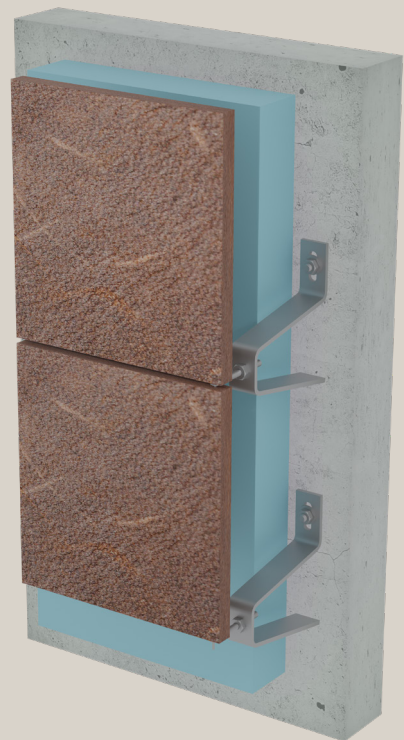
**SETTINGS**



**MOUNTING IN VERTICAL COURSE-JOINT**



**MOUNTING IN HORIZONTAL COURSE-JOINT**



Type	Clamp size K (mm)	Threaded bolt size (MxL/k)	Loading G (kN)	Anchor (MxL)
PXR 0	12 mm	M10x50-60	0,3 kN	M8x70
		M12x50-60	0,45 kN	M8x70
PXS 0	12 mm	M12x50-60	0,6 kN	M10x95
		M14x50-60	0,75 kN	M10x95
		M16x50-60	0,9-1,2 kN	M12x115
PXL 20-80	20-80 mm	M10x60-80	0,3 kN	M8x70
		M12x60-80	0,45 kN	M8x70
		M12x60-80	0,6 kN	M10x95
		M14x60-80	0,75 kN	M10x95
		M16x60-80	0,9-1,2 kN	M12x115
PXL 90-180	90-180 mm	M10x80-100	0,3 kN	M8x70
		M12x80-100	0,45 kN	M8x70
		M12x80-100	0,6 kN	M10x95
		M14x80-100	0,75 kN	M10x95
		M16x80-100	0,9-1,2 kN	M12x115
PXL 190-260	190-260 mm	M10x80-100	0,3 kN	M8x70
		M12x80-100	0,45 kN	M8x70
		M12x80-100	0,6 kN	M10x95
		M14x80-100	0,75 kN	M10x95
		M16x80-100	0,9-1,2 kN	M12x115
PXL 270-350	270-350 mm	M10x100-125	0,3 kN	M8x70
		M12x100-125	0,45 kN	M8x70
		M12x100-125	0,6 kN	M10x95
		M14x100-125	0,75 kN	M10x95
		M16x100-125	0,9-1,2 kN	M12x115
PXL 360-500	360-500 mm	M10x100-125	0,3 kN	M8x70
		M12x100-125	0,45 kN	M8x70
		M12x100-125	0,6 kN	M10x95
		M14x100-125	0,75 kN	M10x95
		M16x100-125	0,9-1,2 kN	M12x115

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc PXL clamp, 1 pc clamping pin, 1 pc threaded bolt, 2 pcs nut, 1 pc anchor

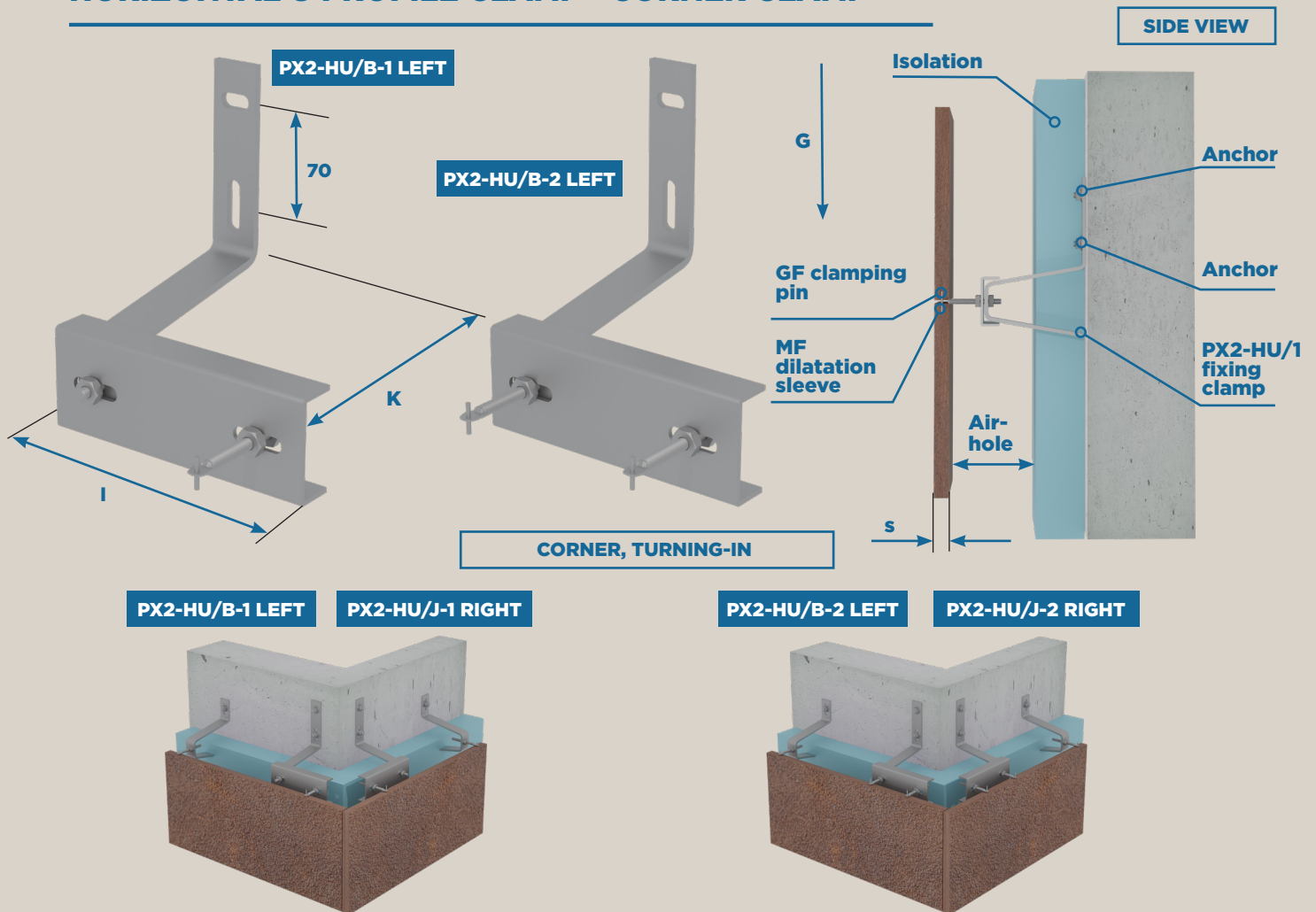
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PXL clamp size (K) / Loading (kN) + Size of the threaded bolt (MxL/k)

**Example:** PXL 100/0,3 kN + TF M10x80/25

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

## PX2-HU/1 ONE-HEADED AND PX2-HU/2 TWO-HEADED HORIZONTAL U PROFILE CLAMP - CORNER CLAMP



Type	Clamp size K (mm)	Threaded bolt size (MxL/k)	U profile size l (mm)	Loading G (kN)	Anchor (Mxl)
PX2-HU/1- PX2-HU/2	40-80 mm	M10x50-60	100	0,3 kN	M8x70
		M12x50-60	150	0,45 kN	M8x70
		M12x50-60	200	0,6 kN	M10x95
PX2-HU/1 PX2-HU/2	90-180 mm	M10x80-100	100	0,3 kN	M8x70
		M12x80-100	150	0,45 kN	M8x70
		M12x80-100	200	0,6 kN	M10x95
PX2-HU/1 PX2-HU/2	190-250 mm	M10x100-125	100	0,3 kN	M8x70
		M12x100-125	150	0,45 kN	M8x70
		M12x100-125	200	0,6 kN	M10x95

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc PX2-HU/1 clamp, 1 pc clamping pin, 1 pc threaded bolt, 2 pcs nut, 2 pcs anchor; or 1 pc PX2-HU/2 clamp, 2 pcs clamping pin, 2 pcs threaded bolt, 4 pcs nut, 2 pcs anchor

**Fixing:** The used anchors are according to the producer's technical datas.

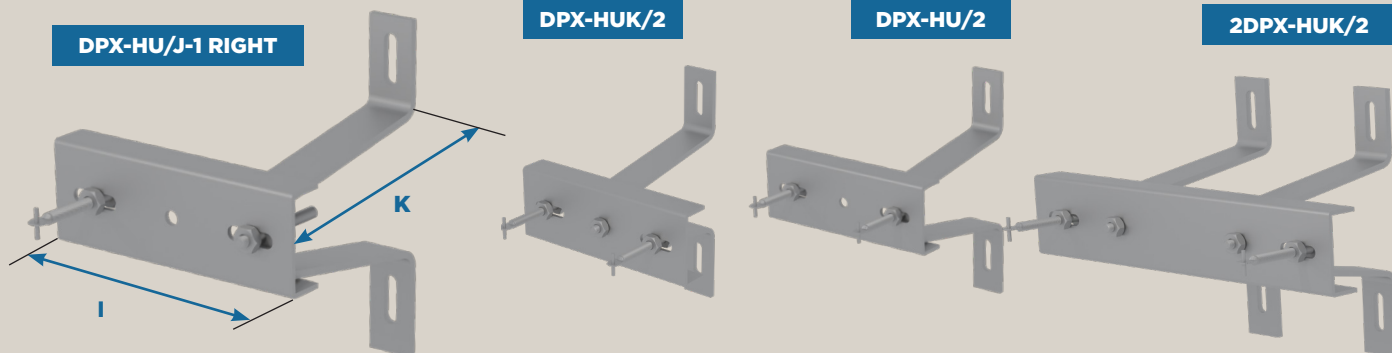
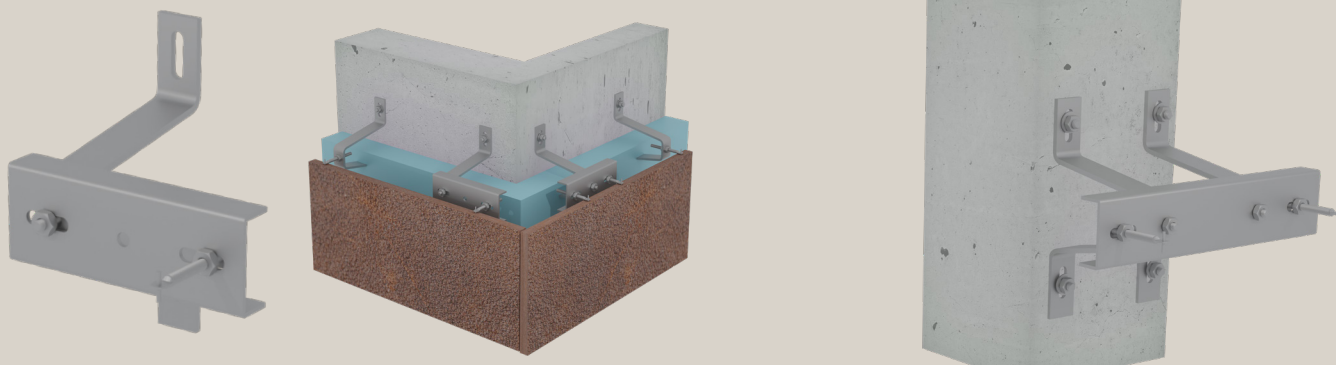
**Marking:** PX2-HU/1 or PX2-HU/2 clamp size (K) / Loading (kN) + Size of the threaded bolt (MxL/k); U=h/u/h-l (mm)

**Example:** PX2-HU/R-1 RIGHT 80/300 + TF M10x80x/25 - U150; or PX2-HU/B-2 LEFT 80/300 + 2 pcs TF M10x80/25 -U150

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

## CORNER CONSOL: DPX-HU/1 ONE-HEADED AND DPX-HU/2 TWO-HEADED HORIZONTAL LEFT/RIGHT DOUBLE SUPPORT U PROFILE CLAMP

### PILLAR CONSOL: DPX-HUK/2 OR 2DPX-HUK/2 DOUBLE U PROFILE CLAMP

**CORNER**
**PILLAR**
**DPX-HU/J-1 RIGHT**
**DPX-HUK/2**
**DPX-HU/2**
**2DPX-HUK/2**

**DPX-HU/B-1 LEFT**
**CORNER, TURNING-IN**


Type	Clamp size K (mm)	Threaded bolt size (MxL/k)	U profile size l (mm)	Loading G (kN)	Anchor (Mxl)
DPX-HU/1 DPX-HU/2	40-80 mm	M10x50-60	100	0,3 kN	M8x70
		M12x50-60	150	0,45 kN	M8x70
		M12x50-60	200	0,6 kN	M10x95
DPX-HU/1 DPX-HU/2	90-180 mm	M10x80-100	100	0,3 kN	M8x70
		M12x80-100	150	0,45 kN	M8x70
		M12x80-100	200	0,6 kN	M10x95
DPX-HU/1 DPX-HU/2	190-250 mm	M10x100-125	100	0,3 kN	M8x70
		M12x100-125	150	0,45 kN	M8x70
		M12x100-125	200	0,6 kN	M10x95

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc DPX-HU fixing clamp, 1 pc clamping pin, 1 pc threaded bolt, 2 pcs nut, 2 pcs anchor

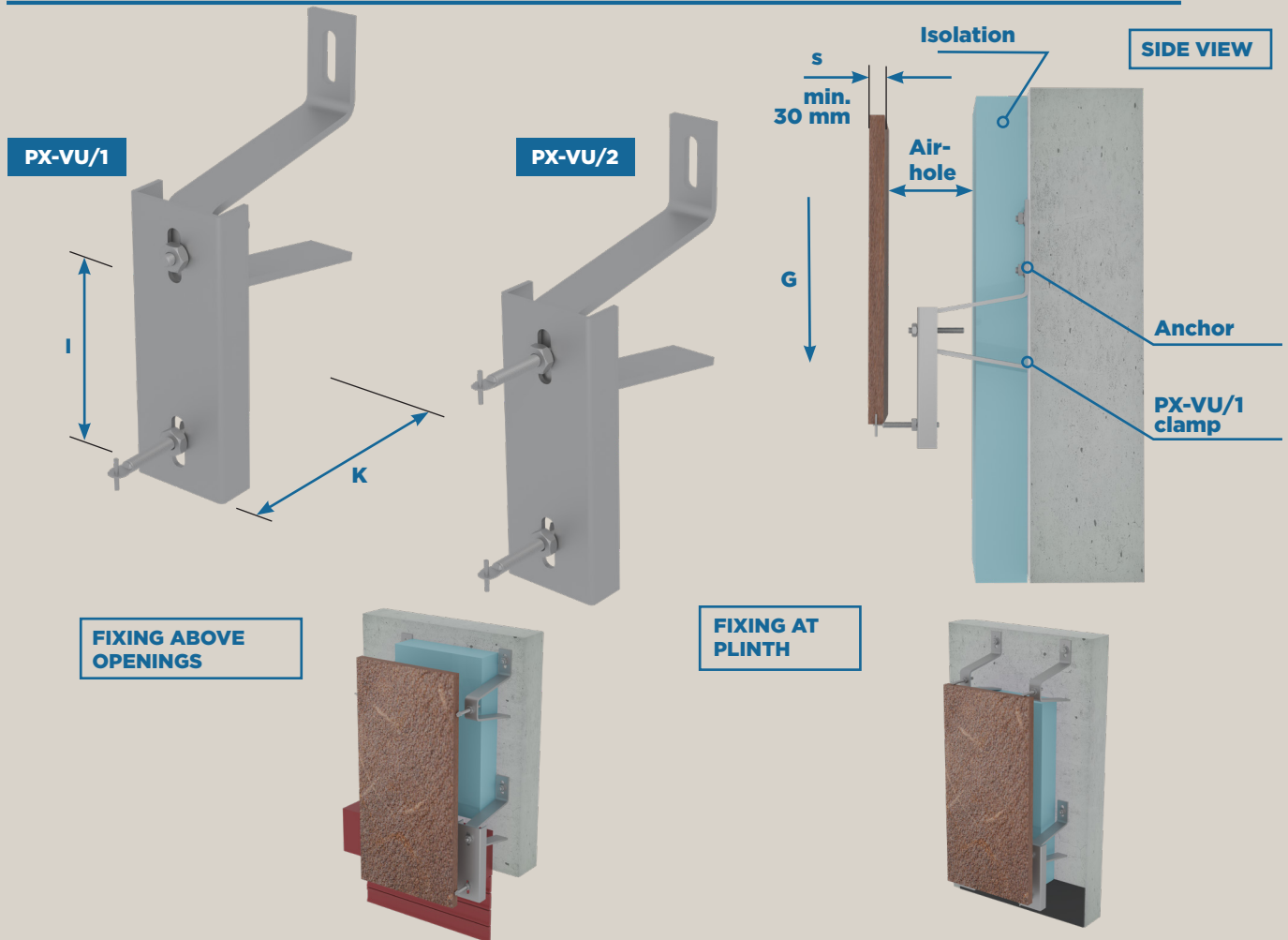
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** DPX-HU clamp size (K) / Loading (kN) + Threaded bolt size (MxL/k)

**Example:** DPX-HU 100/0,3 kN + TF M10x80/25

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

## PX-VU/1 ONE-HEADED OR PX-VU/2 TWO-HEADED U PROFILE CLAMP - HANGING CONSOLE



Type	Clamp size K (mm)	Threaded bolt size (MxL/k)	U profile size (mm)	Loading G (kN)	Anchor (Mxl)
PX-VU/1 PX-VU/2	40-80 mm	M10x50-60	100	0,3 kN	M8x70
		M12x50-60	150	0,45 kN	M8x70
		M12x50-60	200	0,6 kN	M10x95
PX-VU/1 PX-VU/2	90-180 mm	M10x80-100	100	0,3 kN	M8x70
		M12x80-100	150	0,45 kN	M8x70
		M12x80-100	200	0,6 kN	M10x95
PX-VU/1 PX-VU/2	190-250 mm	M10x100-125	100	0,3 kN	M8x70
		M12x100-125	150	0,45 kN	M8x70
		M12x100-125	200	0,6 kN	M10x95

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc PX-VU fixing clamp, 1 pc clamping pin, 1 pc threaded bolt, 2 pcs nut, 1 pc anchor

**Fixing:** The used anchors are according to the producer's technical datas.

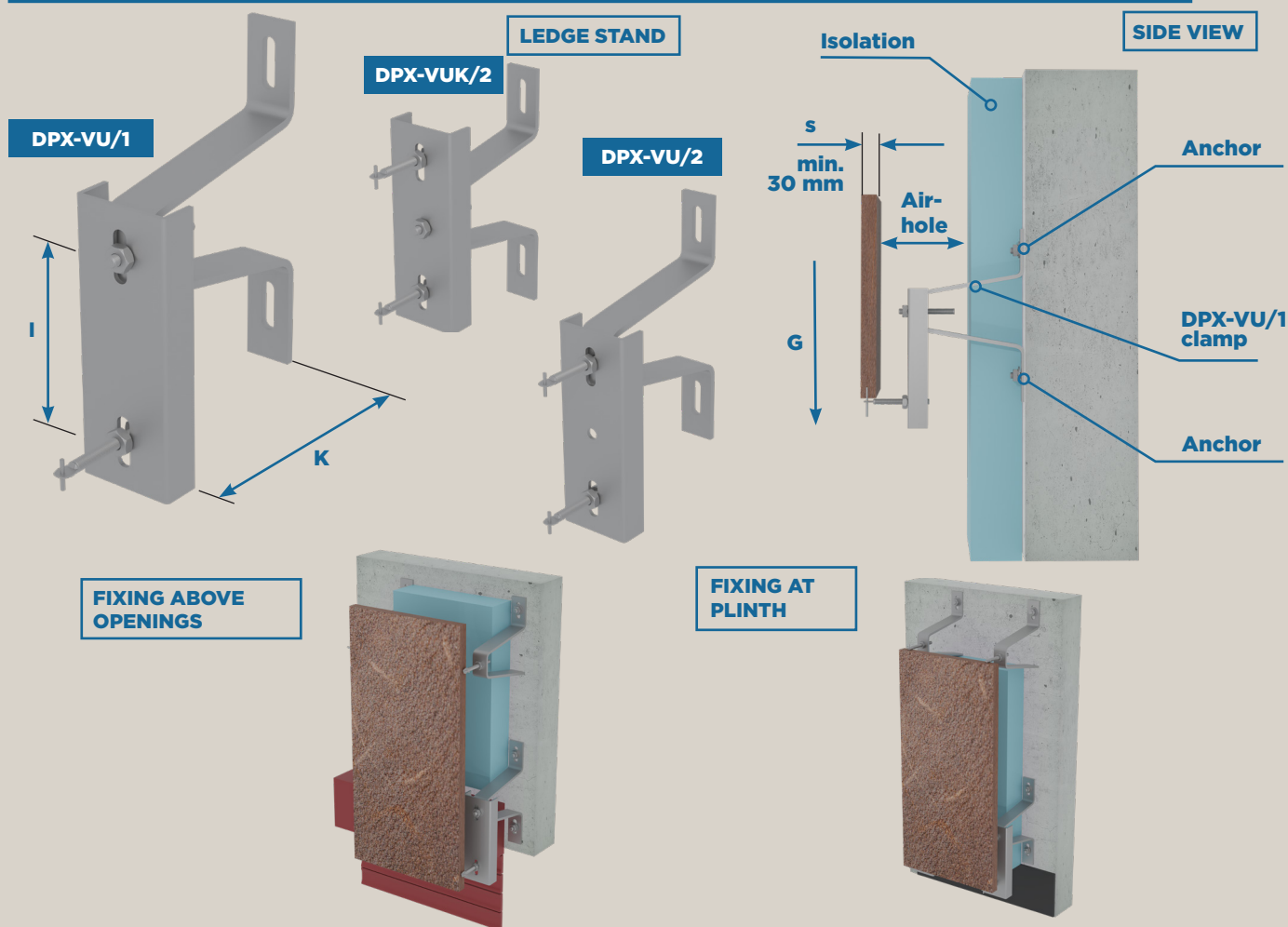
**Marking:** PX-VU clamp size (K) / Loading (kN) + Threaded bolt size (MxL/k)

**Example:** PX-VU 100/0,3 kN + TF M10x80/25

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone



## HANGING CONSOLE: DPX-VU/1 DOUBLE SUPPORT ONE-HEADED AND LEDGE CONSOLE: DPX-VUK/2 TWO-HEADED U PROFILE CLAMP



Type	Clamp size K (mm)	Threaded bolt size (MxL/k)	U profile size l (mm)	Loading G (kN)	Anchor (Mxl)
DPX-VU/1-40 DPX-VUK/2-40	40-80 mm	M10x50-60	100	0,3 kN	M8x70
		M12x50-60	150	0,45 kN	M8x70
		M12x50-60	200	0,6 kN	M10x95
DPX-VU/1-90 DPX-VUK/2-90	90-180 mm	M10x80-100	100	0,3 kN	M8x70
		M12x80-100	150	0,45 kN	M8x70
		M12x80-100	200	0,6 kN	M10x95
DPX-VU/1-190 DPX-VUK/2-190	190-250 mm	M10x100-125	100	0,3 kN	M8x70
		M12x100-125	150	0,45 kN	M8x70
		M12x100-125	200	0,6 kN	M10x95

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc DPX-VU/1 fixing clamp, 1 pc clamping pin, 1 pc threaded bolt, 2 pcs nut, 2 pcs anchors

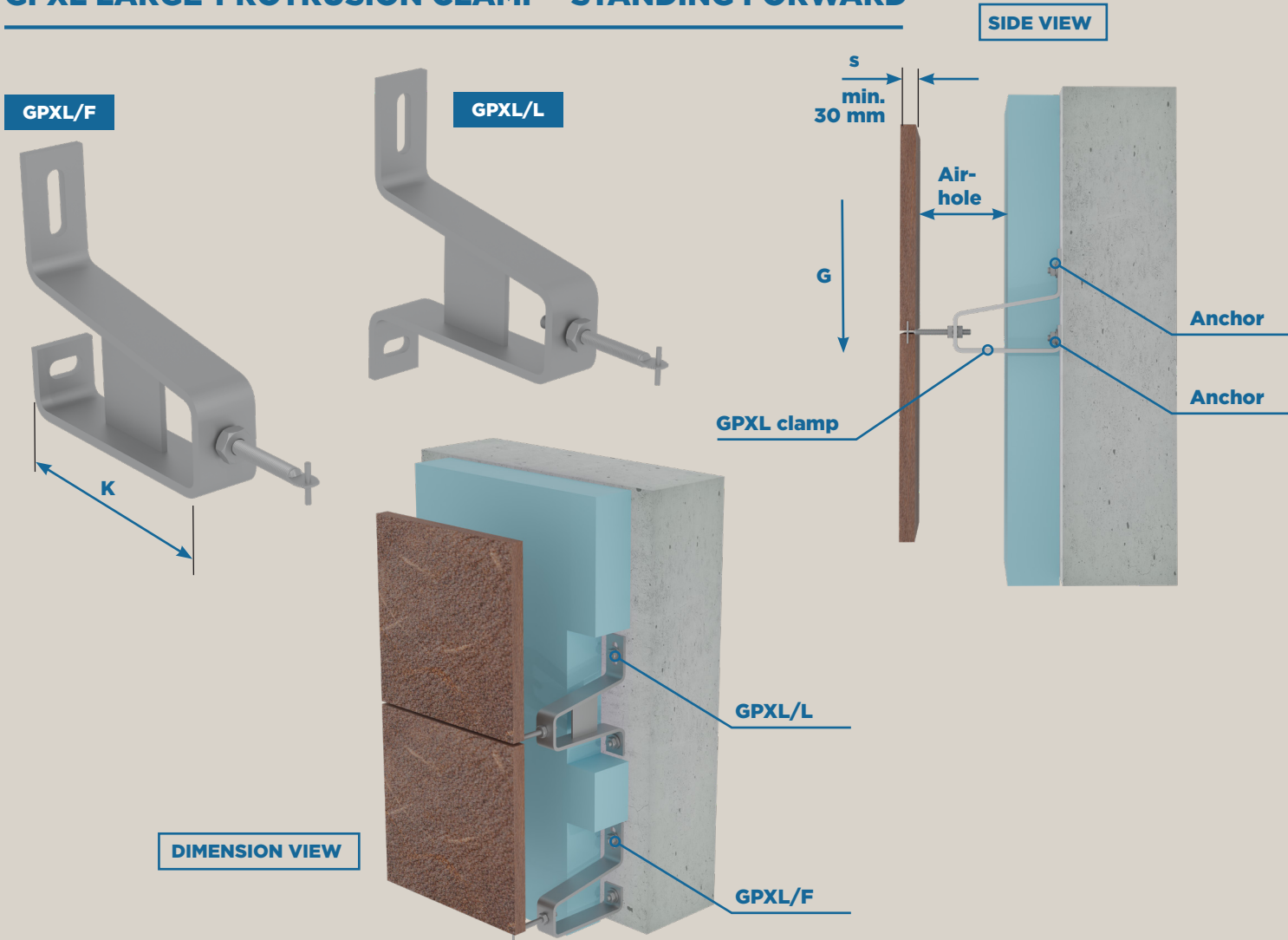
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** DPX-VU/1 clamp size (K) / Loading (kN) + Threaded bolt size (MxL/k)

**Example:** DPX-VU/1 80/0,3 kN + TF M10x80/25 and DPX-VUK/2 80/0,3 kN + 2 pcs TF M10x80/25

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

**GPXL LARGE-PROTRUSION CLAMP - STANDING FORWARD**



Type	Clamp size K (mm)	Threaded bolt size M x L/k	Loading G (kN)	Anchor (MxL)
GPXL/L + GPXL/F	300 -600 mm	M10x80-100	0,3 kN	M8x70
GPXL/L + GPXL/F		M12x80-100	0,45 kN	M8x70
GPXL/L + GPXL/F		M12x80-100	0,6 kN	M10x95
GPXL/L + GPXL/F		M14x80-100	0,75 kN	M12x100
GPXL/L + GPXL/F		M16x80-100	0,9-1,2 kN	M12x115

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc GPXL/F or GPXL/L fixing clamp, 1 pc clamping pin, 1 pc threaded bolt, 2 pcs nut, 2 pcs anchor

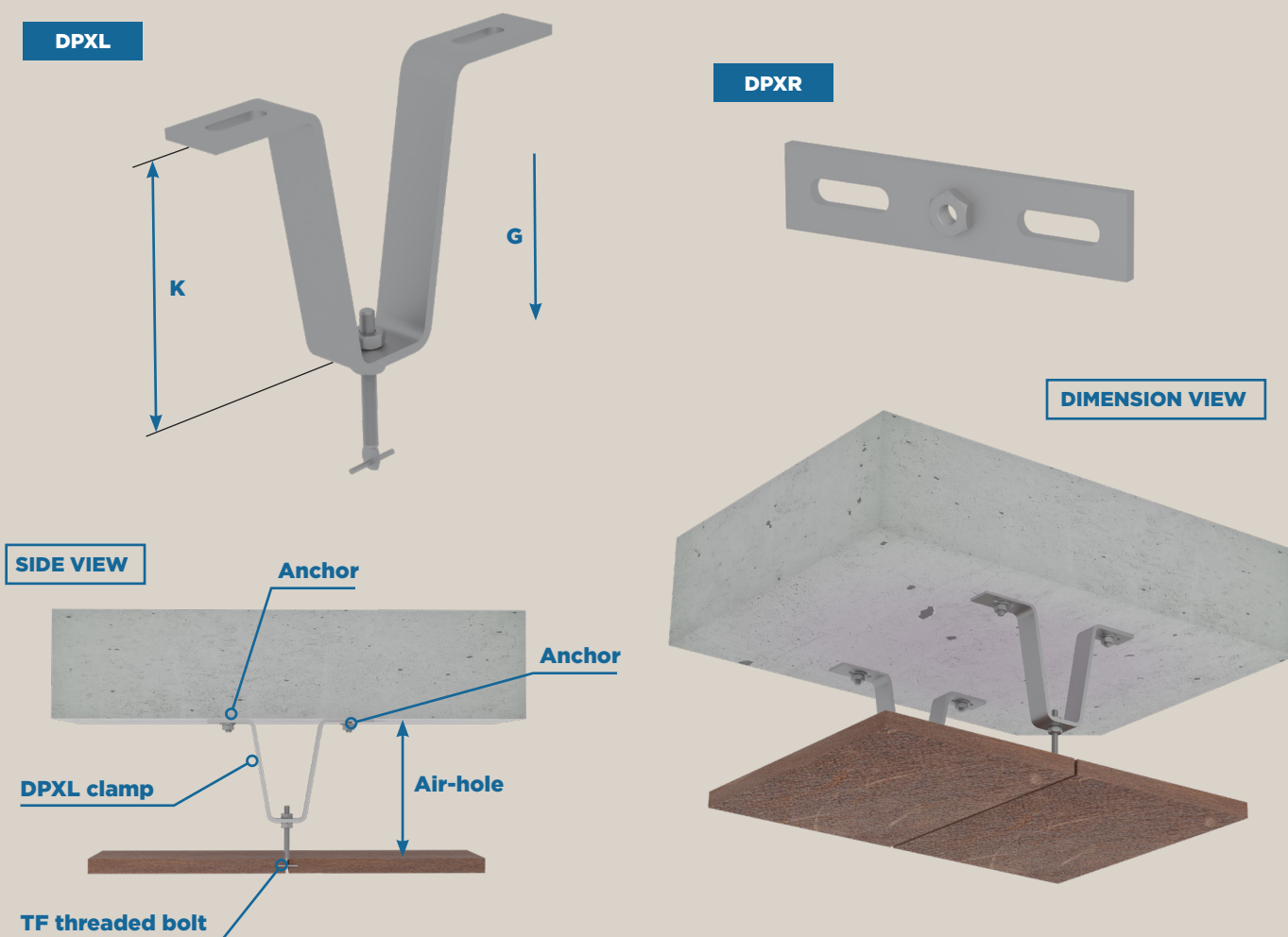
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** GPXL/F or GPXL/L clamp size (K) / Loading (kN) + Threaded bolt size (M x L/k)

**Example:** GPXL-250/0,3 kN + TF M10x80/25

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

## DPXL DOUBLE SUPPORTED CLAMP - SLAB



Type	Clamp size K (mm)	Threaded bolt size M x L/k	Loading G (kN)	Anchor (MxL)
DPXR	12 mm	M10x80-100	0,3 kN	M8x70
		M12x80-100	0,45 kN	M8x70
DPXS	12 mm	M12x80-100	0,6 kN	M10x95
		M14x80-100	0,75 kN	M12x100
		M16x80-100	0,9-1,2 kN	M12x115
DPXL	20 - 400 mm	M10x80-100	0,3 kN	M8x70
		M12x80-100	0,45 kN	M8x70
		M12x80-100	0,6 kN	M10x95
		M14x80-100	0,75 kN	M12x100
		M16x80-100	0,9-1,2 kN	M12x115

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc DPXL fixing clamp, 1 pc clamping pin, 1 pc threaded bolt, 2 pcs nut, 2 pcs anchor

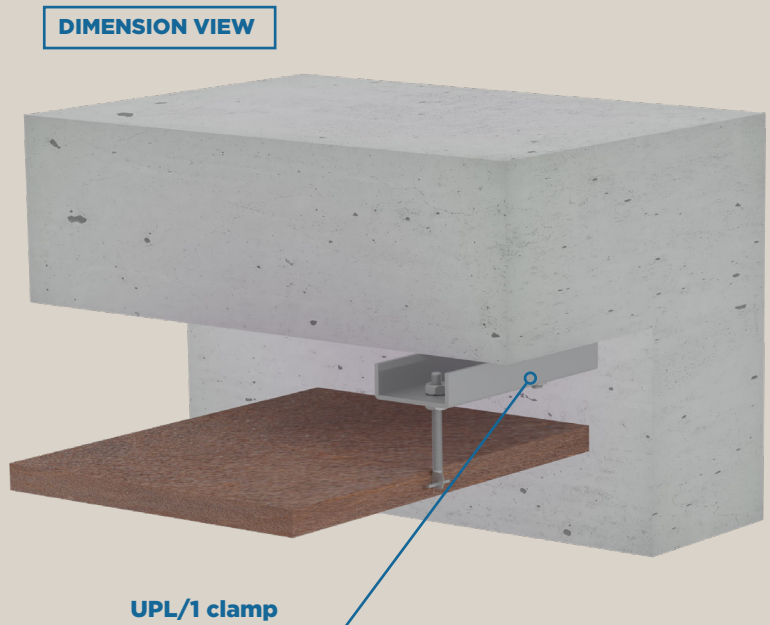
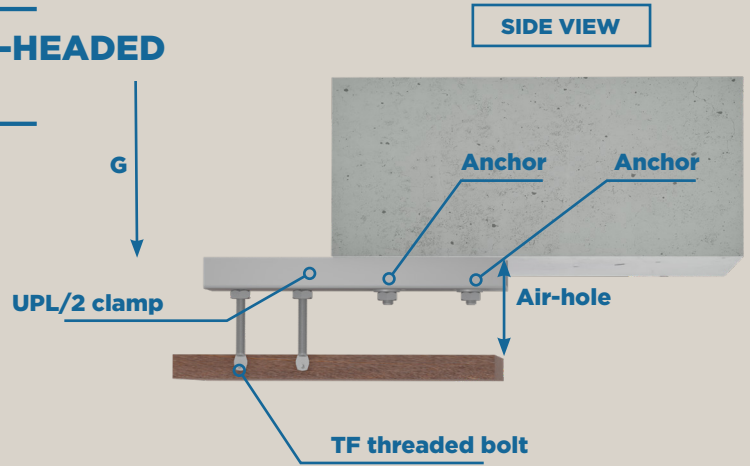
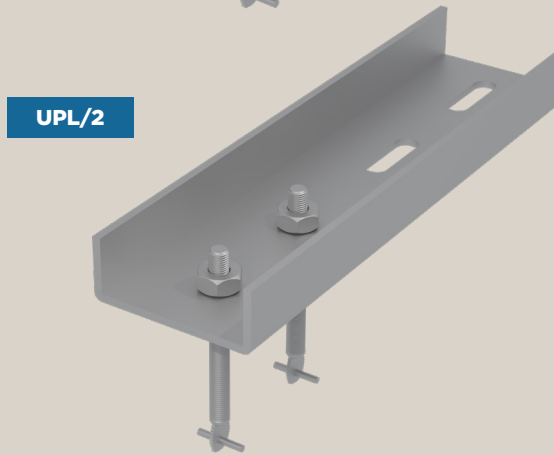
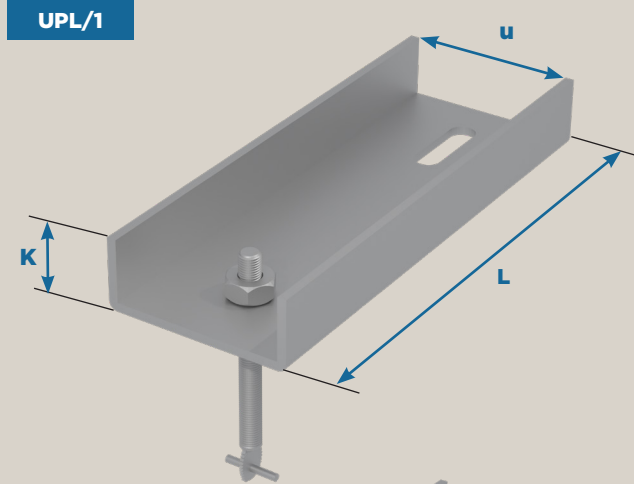
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** DPXL or DPXR clamp size (K) / Loading (kN) + Threaded bolt size (M x L/k)

**Example:** DPXL 40/0,3 kN+ TF M10x80/25

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

## UPL/1 ONE-HEADED OR UPL/2 TWO-HEADED U PROFILE - SLAB



Type	U profile size (K/u) - L mm	Threaded bolt size M x L/k	Loading G (kN)	Anchor (MxL)
UPL/1 + UPL/2	20/50 - 150-400	M10x80-100	0,3 kN	M8x70
UPL/1 + UPL/2	25/50 - 150-400	M12x80-100	0,45 kN	M8x70
UPL/1 + UPL/2	30/60 - 150-400	M12x80-100	0,6 kN	M10x95
UPL/1 + UPL/2	35/60 - 150-400	M14x80-100	0,75 kN	M12x100
UPL/1 + UPL/2	40/60 - 150-400	M16x80-100	0,9-1,2 kN	M12x115

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc UPL fixing clamp, 1 pc clamping pin, 1 pc threaded bolt, 2 pcs nut, 1 pc anchor

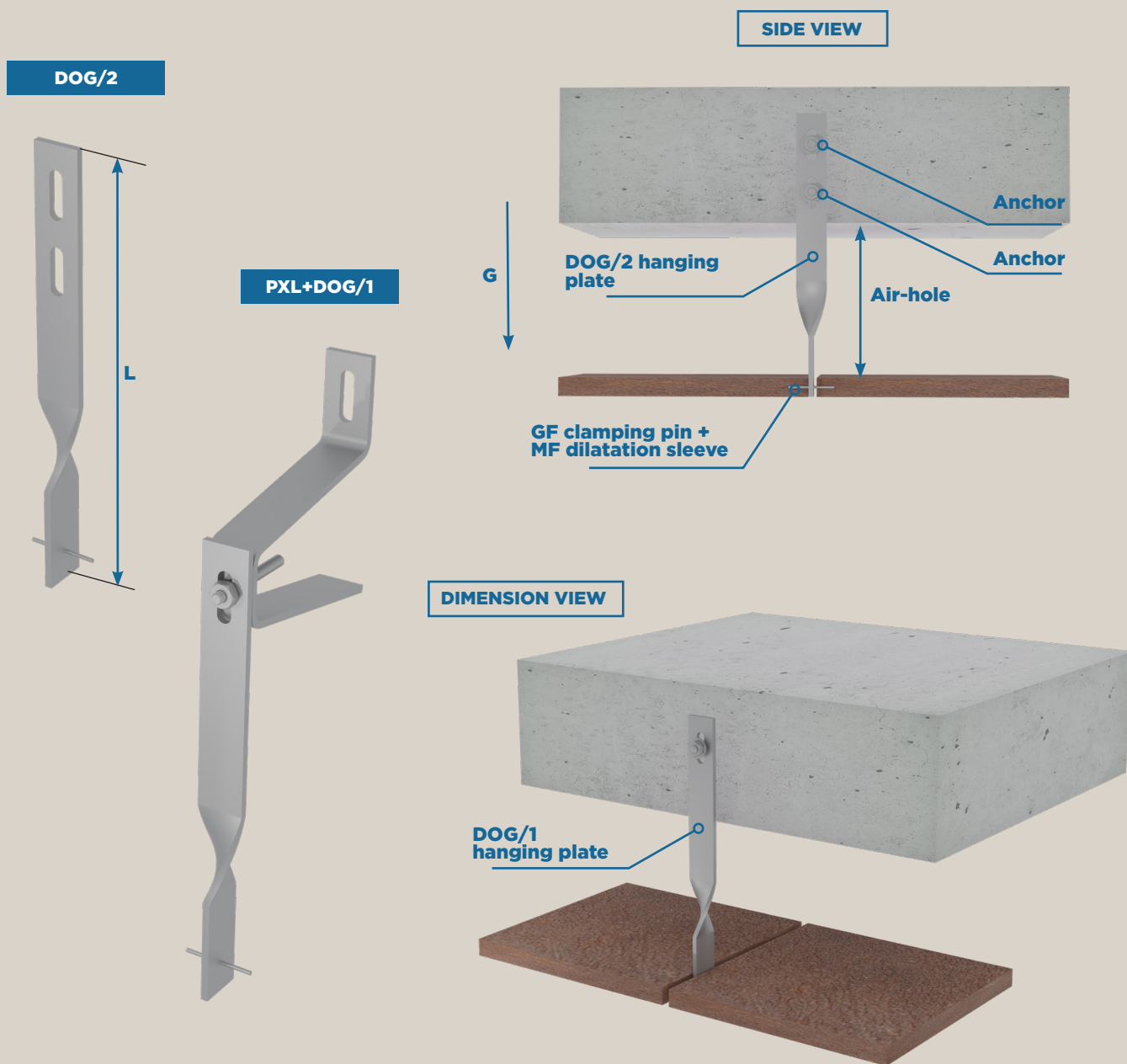
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** UPL clamp size (K) / Loading (kN) + threaded bolt size (M x L/k)

**Example:** UPL 250/0,3 kN + TF M10x80/25

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

## DOG/1 AND DOG/2 HANGING PLATE - SLAB OR CLAMP HANGING



Type	Hanging plate - L (mm)	Loading G (kN)	Anchor (Mxl)
DOG/1 + DOG/2	100 - 300 mm	0,3 - 0,45 kN	M8x70
DOG/1 + DOG/2	100 - 300 mm	0,6 - 0,75 kN	M10x75

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc DOG/1 or DOG/2 fixing clamp, 1 pc clamping pin, 1 pc anchor or 2 pcs anchor

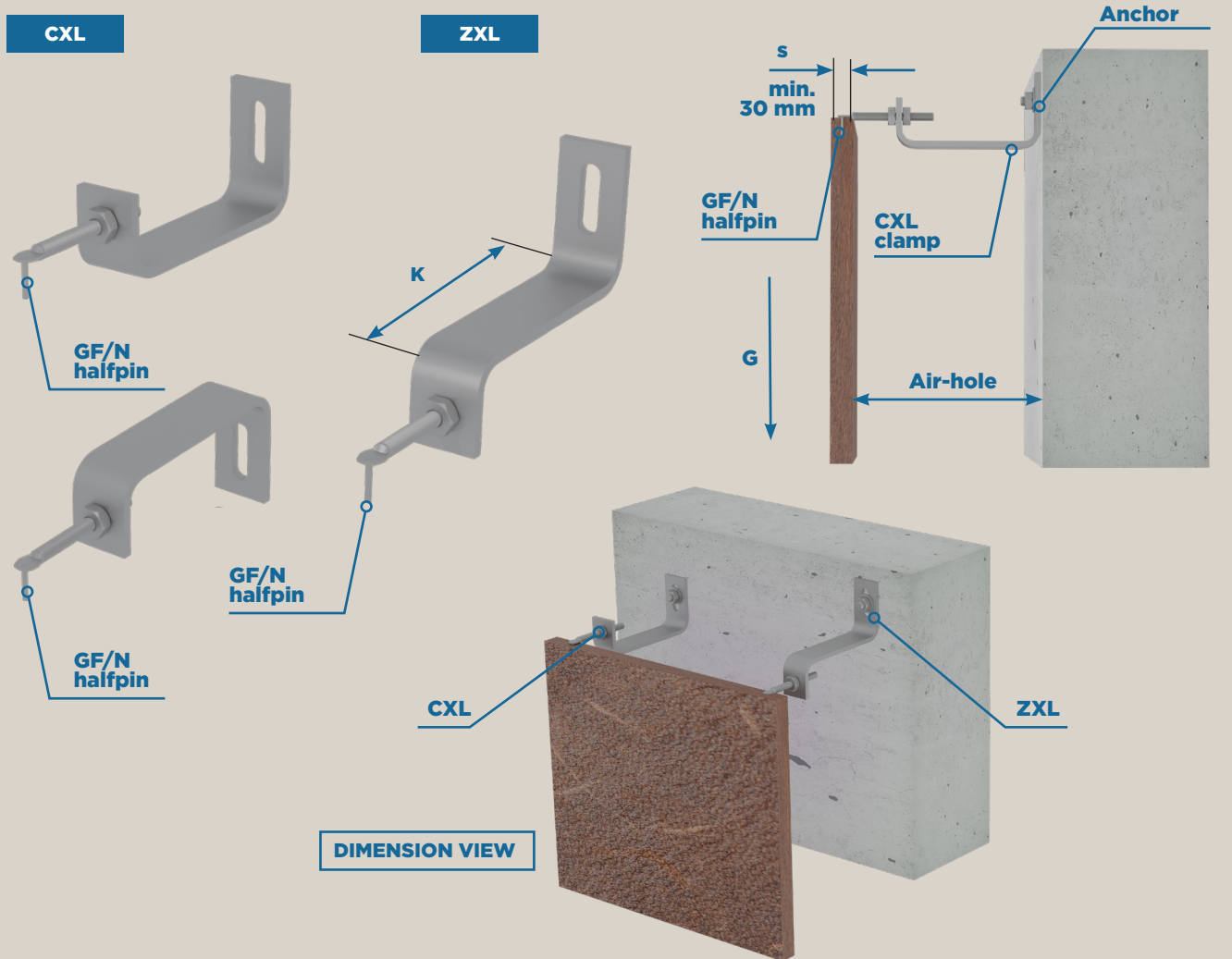
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** DOG clamp (L) / Loading (kN)

**Example:** DOG 160/0,45 kN

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

CXL AND ZXL ANCHORING CLAMP - LAST FIXING POINT



Type	Anchoring clamp K (mm)	Threaded bolt size M x L/k	Loading G (kN)	Anchor (MxL)
CXL 40 + ZXL 40	40 mm	M8x80-100	0,3 kN	M8x70
		M10x80-100	0,45 kN	
CXL 60 + ZXL 60	60 mm	M8x80-100	0,3 kN	M8x70
		M10x80-100	0,45 kN	
CXL 80 + ZXL 80	80 mm	M8x80-100	0,3 kN	M8x70
		M10x80-100	0,45 kN	
CXL 100 + ZXL 100	100 mm	M8x80-100	0,3 kN	M8x70
		M10x80-100	0,45 kN	

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc CXL or 1 pc ZXL Anchoring clamp, 1 pc clamping pin, 1 pc threaded bolt, 2 pcs nut, 1 pc anchor

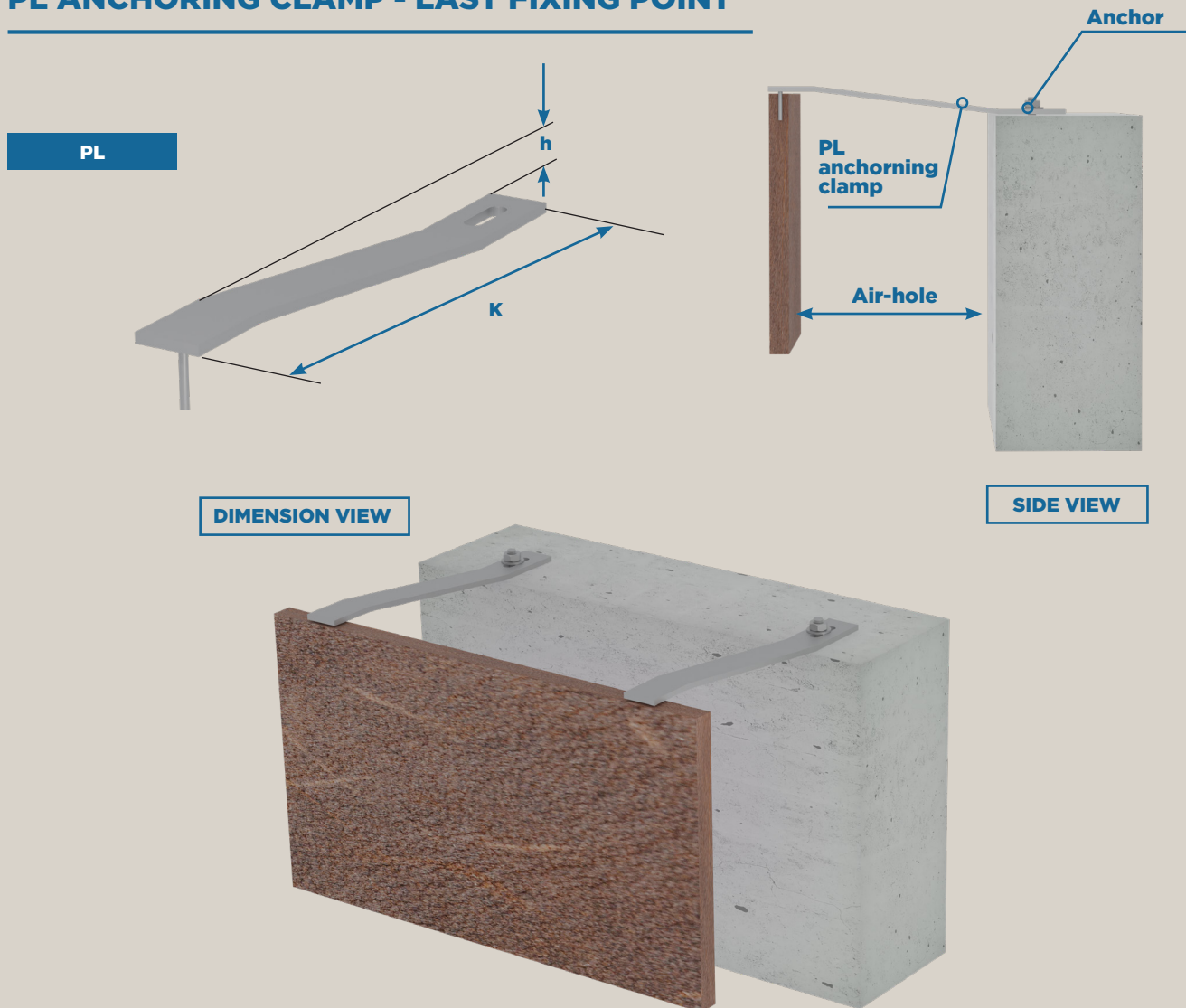
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** CXL clamp size (K) / Loading (kN) + Threaded head size (M x L / k)

**Example:** CXL 60/0,3kN + TF M10x80/25

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

## PL ANCHORING CLAMP - LAST FIXING POINT



Type	Anchoring clamp K (mm)	Height h (mm)	Loading G (kN)	Anchor (Mxl)
PL-200	200	30-60 mm	0,3 - 0,45 kN	M8x70
			0,6 - 0,75 kN	M10x90
PL-220	220	30-60 mm	0,3 - 0,45 kN	M8x70
			0,6 - 0,75 kN	M10x90
PL-240	240	30-60 mm	0,3 - 0,45 kN	M8x70
			0,6 - 0,75 kN	M10x90
PL-260	260	30-60 mm	0,3 - 0,45 kN	M8x70
			0,6 - 0,75 kN	M10x90

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc PL anchoring clamp, 1 pc 1/2 clamping pin, 1 pc anchor

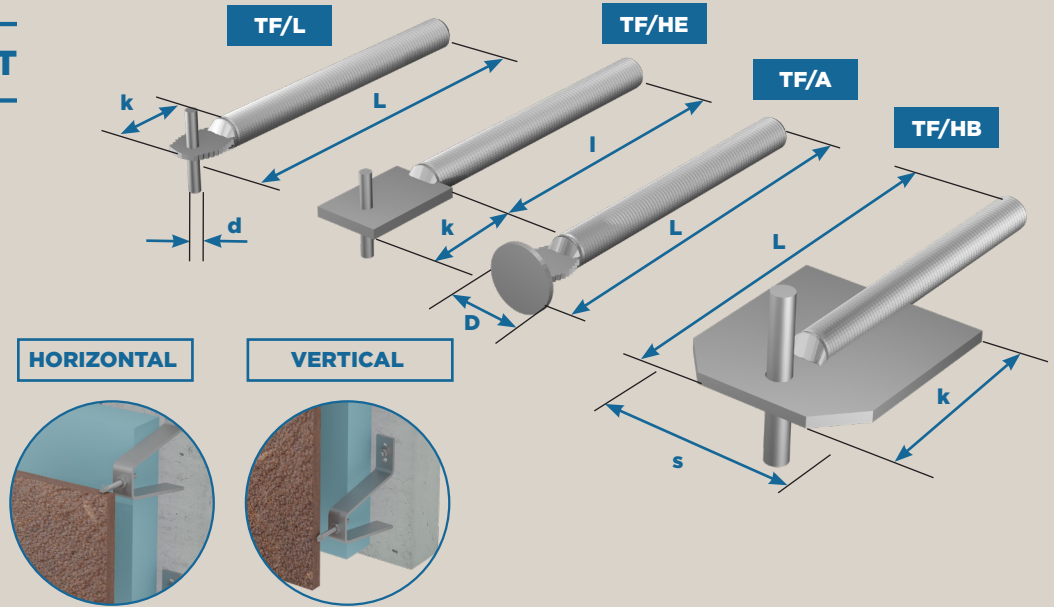
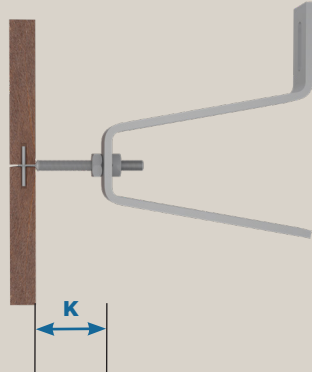
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PL - anchoring clamp size (K) / Height (h) - Loading (G)

**Example:** PL-200/30-0,3 kN

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

TF THREADED BOLT



Type	Thread (M)	Bolt length (k) mm	Bore diameter (d) mm	Full length (L) mm	Max. Support (K) mm	Loading G (kN)
TF/L M8 TF/A M8	M8	20-40	4,2 D= 8 - 10	60	40	0,35
				80	60	0,30
				100	80	0,25
				125	100	0,20
TF/L M10 TF/A M10	M10	25-35	5,2 D=10 - 12	60	40	0,50
				80	60	0,45
				100	80	0,40
				125	100	0,35
TF/L M12 TF/H M12	M12	25-80	5,2 H= 50 - 80	60	40	0,68
				80	60	0,65
				100	80	0,50
				125	100	0,40
TF/L M14 TF/H M14	M14	30-100	6,2 H= 50-100	100	80	0,70
				125	100	0,55
				140	120	0,45
				160	140	0,40
TF/L M16 TF/H M16	M16	120	6,2 H= 60 - 120	100	80	1,10
				125	100	0,90
				140	120	0,75
				160	140	0,65

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc TF/L or TF/A, 1 pc GF clamping pin

**Fixing:** The used anchors are according to the producer's technical datas.

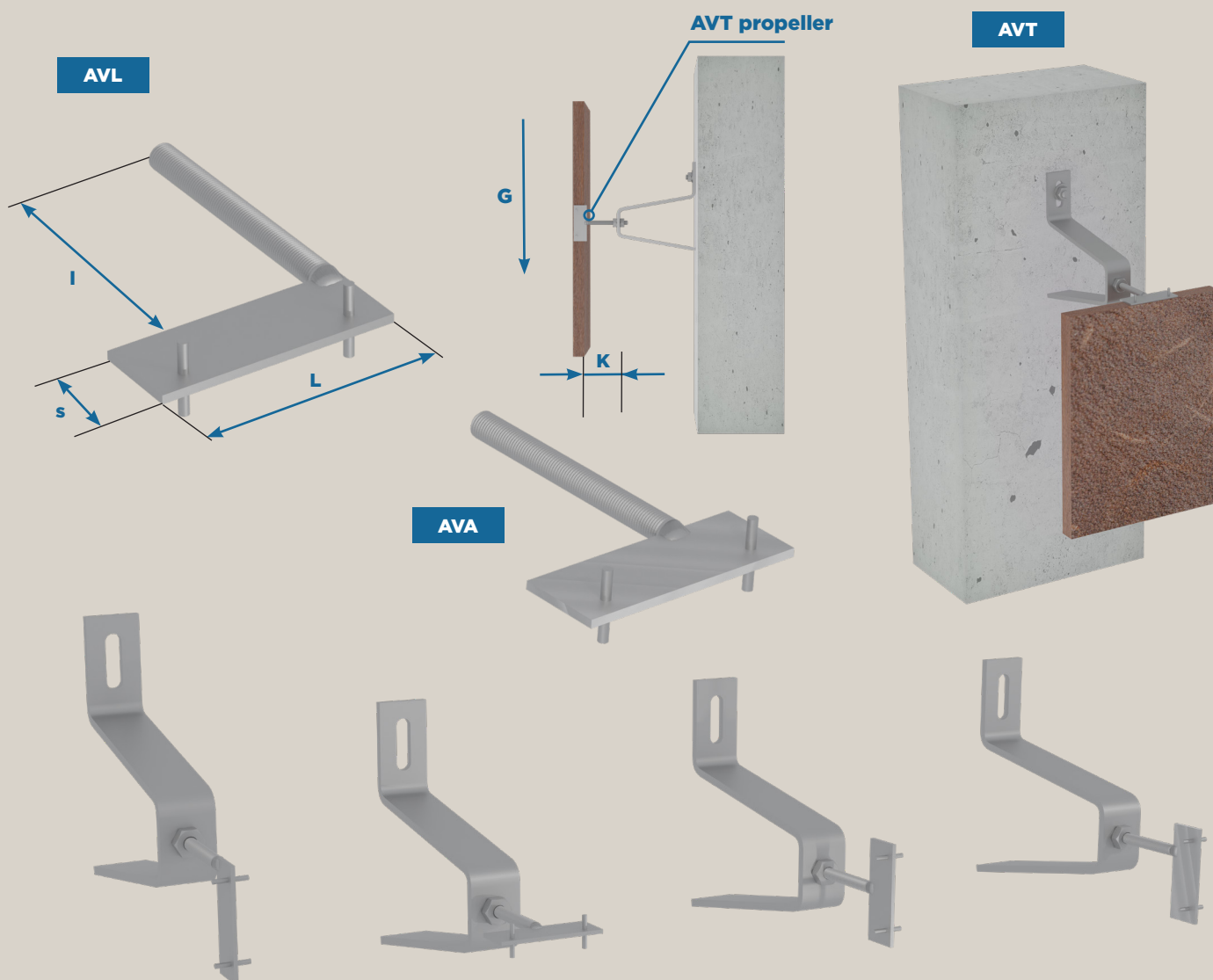
**Marking:** TF /type Thread (M) x Full length (L) / Bolt length (k) + TF/type thread (M) x Thread length (I) - Bolt length (k)/Plate width (s) d= Clamping pin

**Example:** TF/L M10x80/25 - d 5,2 TF/HB M16x125-100/50 d=10

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone



## AVT, AVL, AVA TWO-POINTED PROPELLER - NARROW FLAGSTONE



Type	Thread (M)	Thread length (l)	Plate length (L) mm	Plate width (s) mm	Max. support (K)	Loading G (kN)
AV M10	M10	60	100	30	80	0,40
		80	125		100	0,35
		100	150		125	0,30
AV M12	M12	60	100	30	80	0,50
		80	125		100	0,40
		100	150		125	0,35

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc AVA, AVT, AVL fixing propeller, 2 pcs GF clamping pin, 2 pcs nut

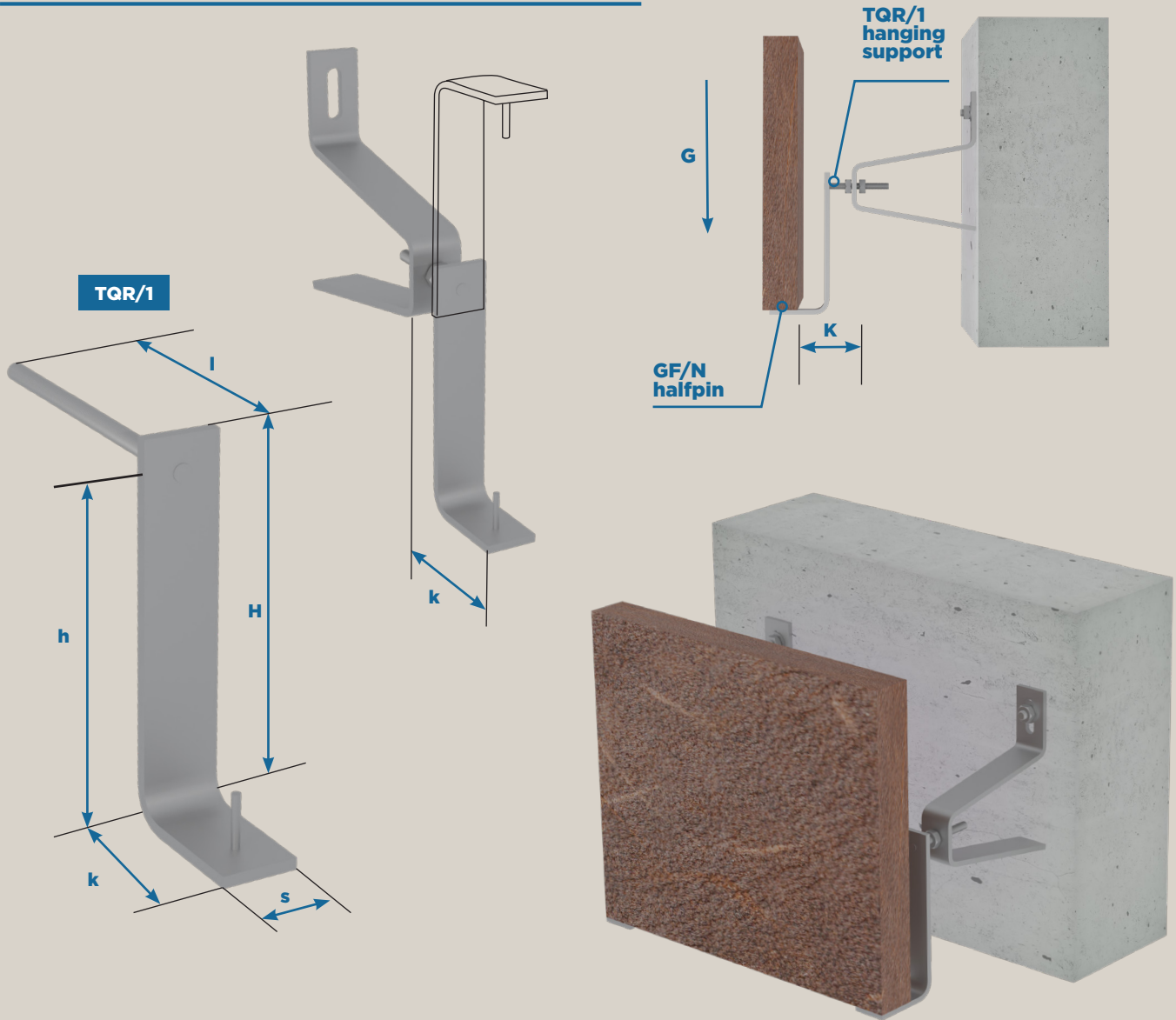
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** AV type- Plate length (L) / Plate width (s) - Thread (M) x Thread length (l) - Clamping pin (d)

**Example:** AVT - 125/30 - M10x60 d=5,2

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

## TQR/1 ONE-POINTED HANGING SUPPORT



Type	Thread (M)	Plate width (s) mm	Hanging (h) mm	Thread lenght (I)	Clamping pin (d) mm	Max. support (K)	Loading G (kN)
TQR/1 M10	M10	30	85	60	5,2	30	0,30
			100	80		35	0,25
			125	100		40	0,20
TQR/1 M12	M12	40	85	60	5,2	30	0,40
			100	80		35	0,30
			125	100		40	0,20

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

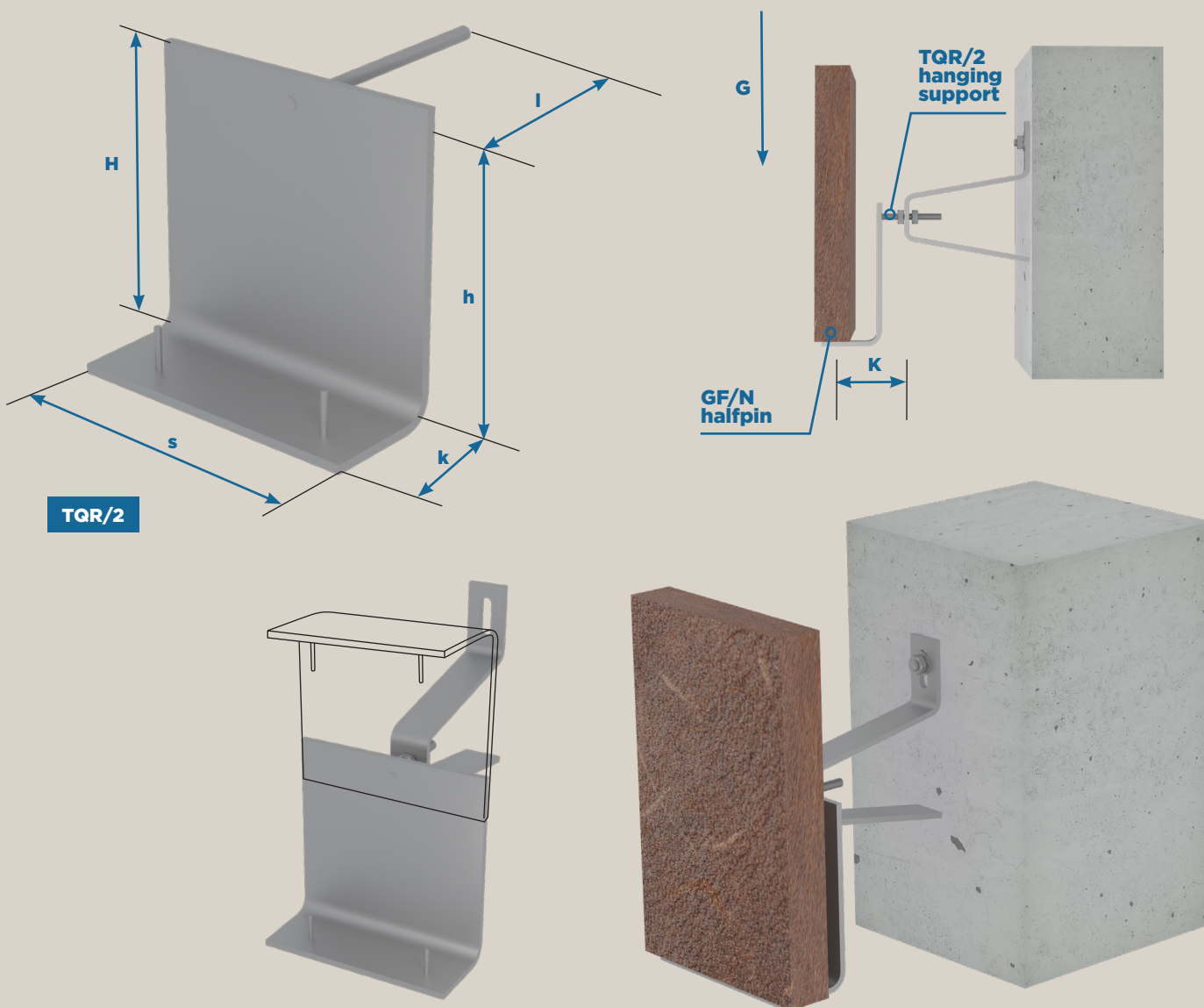
**Complete fixing element consists:** 1 pc TQR/1 hanging support, 2 pcs nut, 1 pc GF/N half pin

**Marking:** TQR/type - Support (K) / Hanging (h) / Width (s) - Thread (M) x Thread Length (I) - Clamping pin(d)

**Example:** TQR/1-30/85/30-M10x60 d=5,2

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

## TQR/2 TWO-POINTED HANGING SUPPORT - NARROW FLAGSTONE



Type	Thread (M)	Plate width (s) mm	Hanging (h) mm	Thread lenght (l)	Clamping pin (d) mm	Max. support (K)	Loading G (kN)
TQR/2 M10	M10	100-150	85	60	5,2	30	0,30
			100	80		35	0,25
			125	100		40	0,20
TQR/2 M12	M12	100-150	85	60	5,2	30	0,40
			100	80		35	0,30
			125	100		40	0,20

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

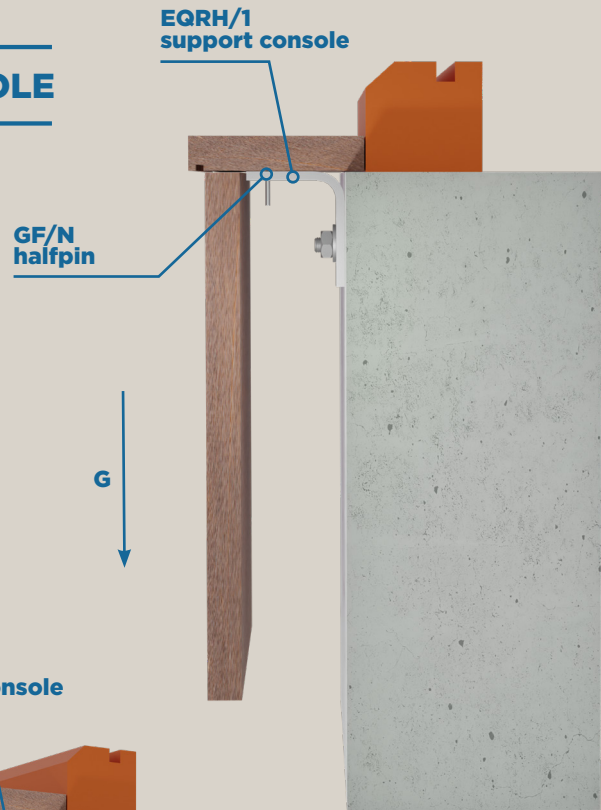
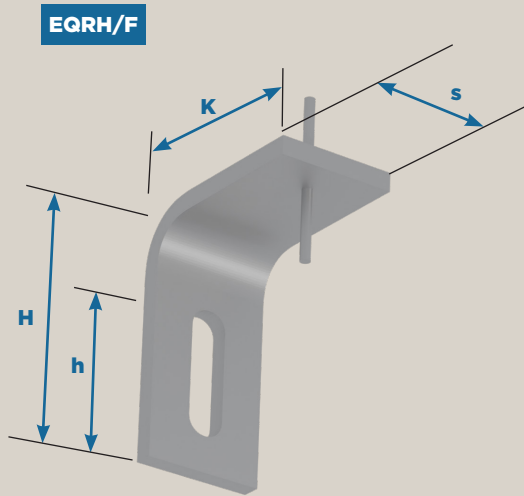
**Complete fixing element consists:** 1 pc TQR/2 hanging support, 2 pcs nut, 2 pcs GF/N half pin

**Marking:** TQR/type - Support (K) / Hanging (h) / Width (s) - Thread (M) x Thread Length (l) - Clamping pin(d)

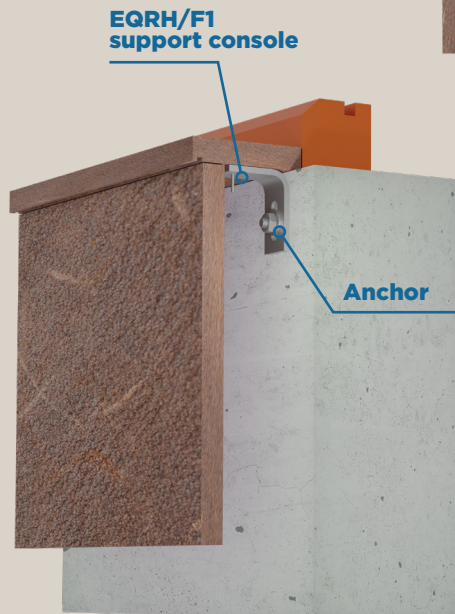
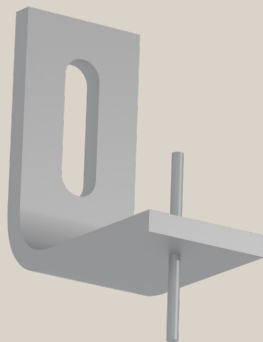
**Example:** TQR/2-30/85/100-M10x60 d=5,2

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

## EQRH/1 ONE-POINTED SUPPORT CONSOLE



**EQRH/1**



Type	Protrusion (K) mm	Fixed height (h)mm	Plate length (s) mm	Loading G (kN)	Anchor (Mxl)
EQRH/1 80	80	100	30	0,30-0,45	M8x75
EQRH/1 100	100	120	30	0,30-0,45	
EQRH/1 120	120	140	30	0,30-0,45	
EQRH/1 140	140	160	40	0,30-0,45	
EQRH/1 160	160	180	40	0,30-0,45	
EQRH/1 180	180	200	40	0,30-0,45	

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc EQRH/1 support console, 1 pc clamping pin , 1 pc Anchor

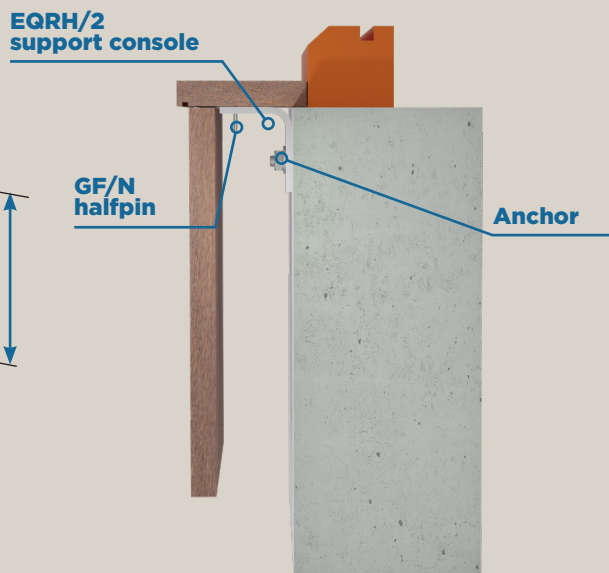
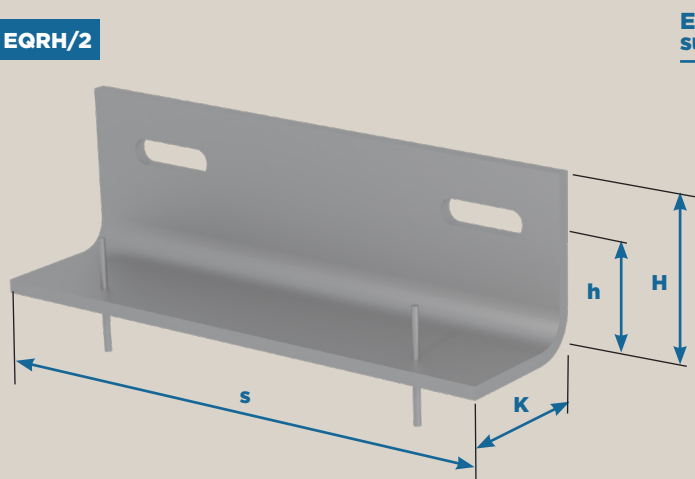
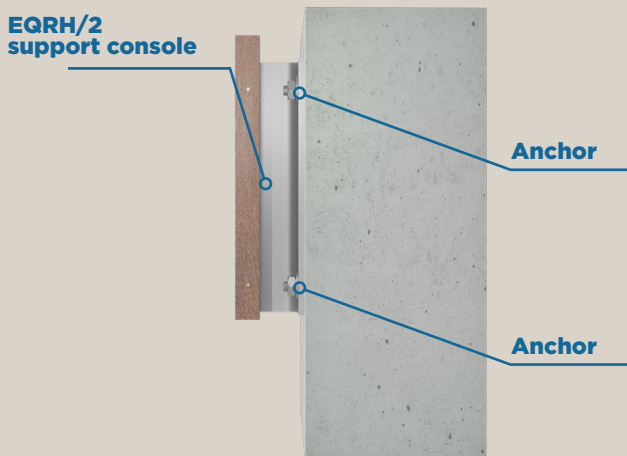
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** EQRH/1 Protrusion (K)/Fixed height (h) - Length (s) - Loading (kN)

**Example:** EQRH/1 - 60/70-30-0,3

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

## EQRH/2 HORIZONTAL AND EQRV/2 VERTICAL TWO-POINTED SUPPORT CONSOLE - NARROW FLAGSTONE

**EQRH/2**

**EQRV/2**


Type	Protrusion (K) mm	Fixed height (h)mm	Plate length (s) mm	Loading G (kN)	Anchor (Mxl)
EQRH/2 80	80	100	100-150	0,30-0,45	M8x75
EQRH/2 100	100	120		0,30-0,45	
EQRH/2 120	120	140		0,30-0,45	
EQRH/2 140	140	160		0,30-0,45	
EQRH/2 160	160	180		0,30-0,45	
EQRH/2 180	180	200		0,30-0,45	

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc EQRH/2 support console, 2 pcs clamping pin, 2 pcs Anchor

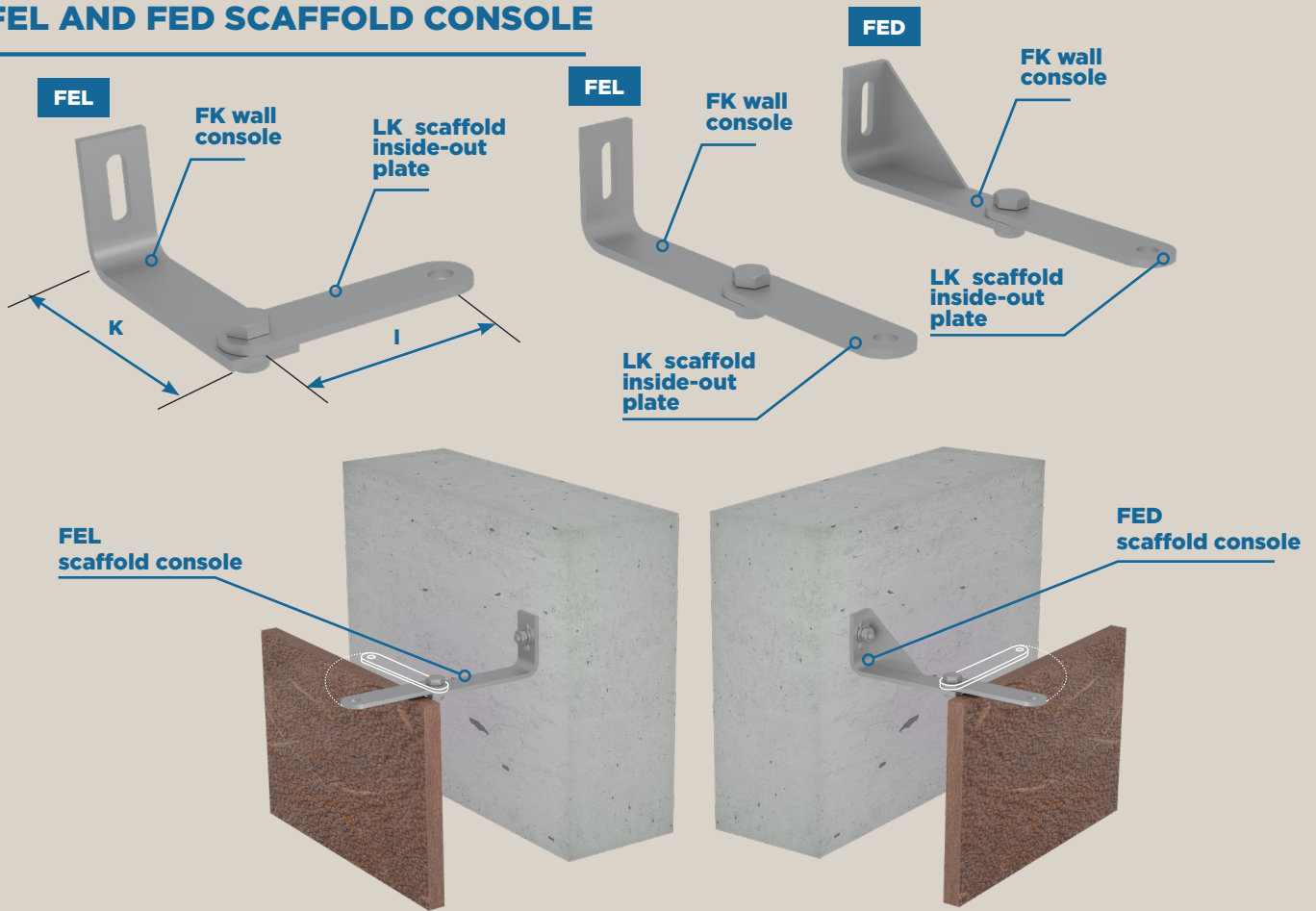
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** EQRH/2 Protrusion (K)/Fixed height (h) - Length (s) - Loading (kN)

**Example:** EQRH/2 - 60/70-100-0,3

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

## FEL AND FED SCAFFOLD CONSOLE



### FEL scaffold inside-out console

Type	FK- wall console (K) mm	LK -scaffold inside-out plate (I) mm	Loading G (kN)	Anchor (MxI)
FEL	180	140-250	2,0	M8x75
	200			
	220			
	240			
	260			

### FED reinforced scaffold inside-out console

Type	FK- wall console (K) mm	LK -scaffold inside-out plate (I) mm	Loading G (kN)	Anchor (MxI)
FED	180	140-250	3,0	M8x75
	200			
	220			
	240			
	260			

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 1 pc FEL and FED complete element, 1 pc anchor, 1 pc Hlf M thread, 1 pc self-locking nut

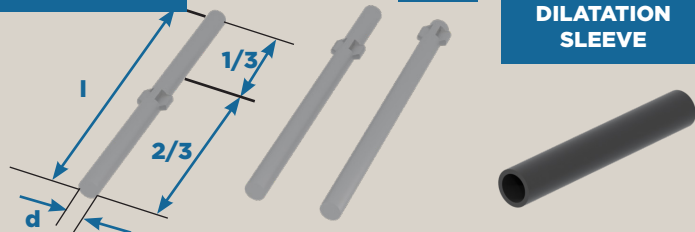
**Marking:** FEL size = FK (K) / LK (I) - Loading (kN)

**Example:** FEL 240/160 -2,0

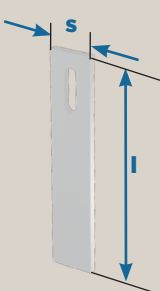
**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone

## ACCESSORIES

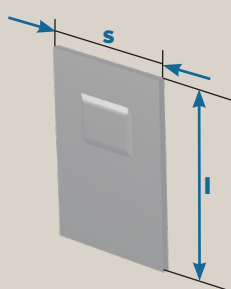
### GF CLAMPING PIN



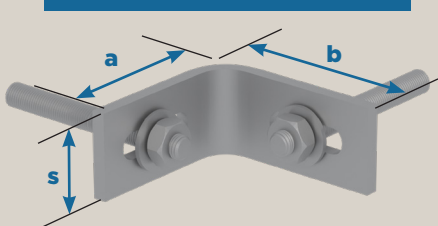
### TS THERMOSTOP PLATE



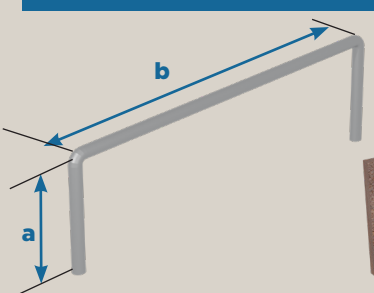
### PRB SUPPORTING PLATE



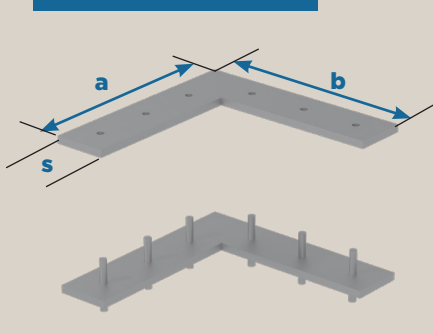
### EQR NEGATIVE CORNER CLAMP



### EQU NEGATIVE WIRE CLAMP



### EQL GAP CORNER PLATE



### GF CLAMPING PIN

Type	Diameter (d) mm	Length (l) mm
GF 4x60	4	60
GF 5x60	5	60
GF 6x60	6	60
St 8x80	8	80
St 10x100	10	100

### MF PLASTIC DILATATION SLEEVE (PP)

Type	Outside/Inside diameter (d)mm	Length (l) mm
MF 6/4-40	6/4	40
MF 7/5-40	7/5	40
MF 8/6-40	8/6	40
MF 10/8-50	10/8	50
MF 12/10-60	12/10	60

### TS THERMOSTOP PLATE (PP-CR)

Type	Width (s) mm	Length (l) mm
TS-30	30	50-200
TS-40	40	50-200
TS-50	50	50-200

### PRB SUPPORTING PLATE - BRICK WALL

Type	Width (s) mm	Length (l) mm
PRB 30/40	30	40
PRB 40/50	40	50
PRB 50/60	50	60
PRB 60/70	60	70

### EQR NEGATIVE CORNER CLAMP

Type	Size (a/b) mm	Width (s) mm
EQR 60/70	60/70	30
EQR 80/90	80/90	40

### EQU NEGATIVE CORNER CLAMP

Type	Size (a/b) mm	Diameter (d) mm
EQU 30/60/30	30/60/30	4
EQU 40/60/40	40/60/40	5

### EQL GAP CORNER PLATE

Type	Size (a/b) mm	Width (s) mm
EQL 100/100	100/100	30
EQL 120/120	120/120	40

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

## HANGING WITH PFK ALUMINIUM PROFILE



### FC PROFILE CONSOLE

Type	Console size K (mm)	Console screw size	Loading G (kN)	Anchor (Mxl)
FC-6V/2V	130-300 mm	Hif M10x20	0,45 kN	M8x75
FC-6V/2H	130-300 mm	Hif M12x25	0,6 kN	M10x95

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

**Complete fixing element consists:** 2 pcs FC-6V profile console + PFK aluprofile

**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** FC-6V/2V or FC-6V/2H console Protrusion (K) + PFK aluprofil lenght (L)

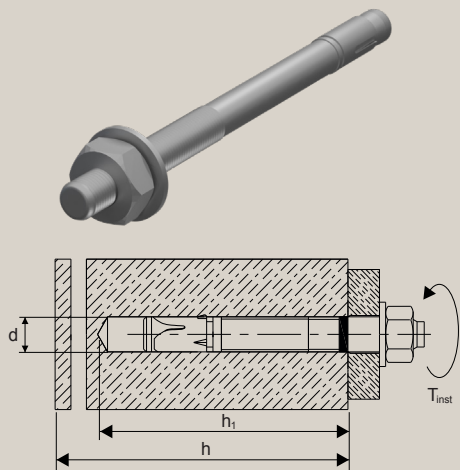
**Example:** FC-6V/2V -300 + PFK 45/45-1200

**Sizing:** Stratification = isolation + blow-hole or difference of the wall + s = thickness of the flagstone



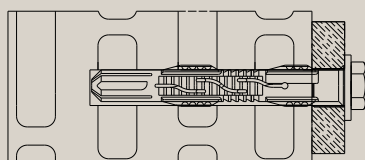
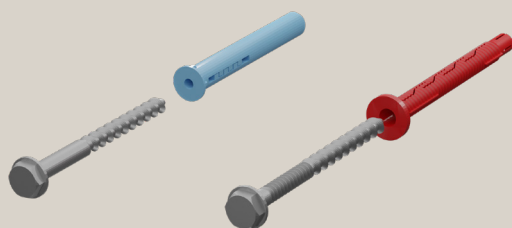
## ANCHOR FIXING

### EXPANSION ANCHOR

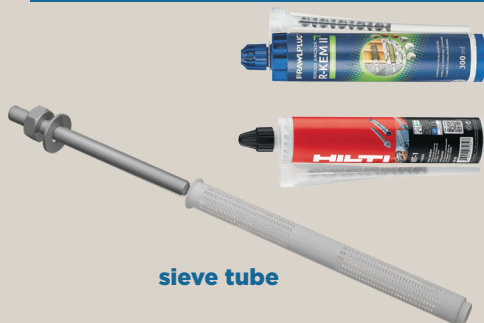


### RAWL R-FF1

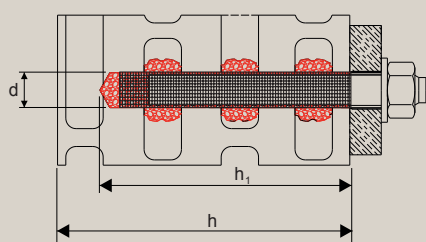
### HILTI HRD-HR2



### I/M DOWEL ROD + NUT + SIEVE TUBE



sieve tube



### EXPANSION ANCHOR

#### Solid masonry

#### Hilti-ETA 11/0374 + RAWL-ETA 17/0782

Type: Hilti + RAWL	HSA-R2	R-XPT	HSA-R2	R-XPT	HSA-R2	R-XPT
Anchor size	M8x70	M8x75	M10x83	M10x95	M12x115	M12x120
Tensile kN	5,9	7,5	8,3	12	12,3	25
Shearing kN	7,0	6,7	12,9	5,8	16,7	14,1
Drill bit d (mm)	8	8	10	10	12	12
Base material min. thickness h (mm)	40	47	50	59	65	68
Drill hole depthness $h_1$ (mm)	100	100	120	120	140	140
Minimum spacing $S_{min}$ (mm)	35	65	50	80	70	85
Minimum edge distance $C_{min}$ (mm)	35	50	40	80	65	100
Torque moment $T_{inst}$ (Nm)	21	22	48,6	45	76	72

### PLASTIC ANCHOR WITH WOOD-SCREW

#### Into hollow-brick or aerated concrete masonry

#### Hilti HRD ETA 07/0219 + RAWL R-FF1 ETA 12/0398

Type: Hilti HRD-HR2 + R-FF1	HRD-HR2	R-FF1
Anchor size	M10x80-140	M10x100-160
Tensile kN / aerated concrete masonry	0,5-1,5	0,5-1,5
Shearing kN / aerated concrete masonry	0,8-1,6	1,0-1,8
Drill bit d (mm)	10	10
Base material min. thickness h (mm)	50-90	70-130
Drill hole depthness $h_1$ (mm)	200	200
Minimum spacing $S_{min}$ (mm)	100	100
Minimum edge distance $C_{min}$ (mm)	100	100
Torque moment $T_{inst}$ (Nm)	12	13,1

### INJECTABLE USE

#### Hollow or perforated masonry

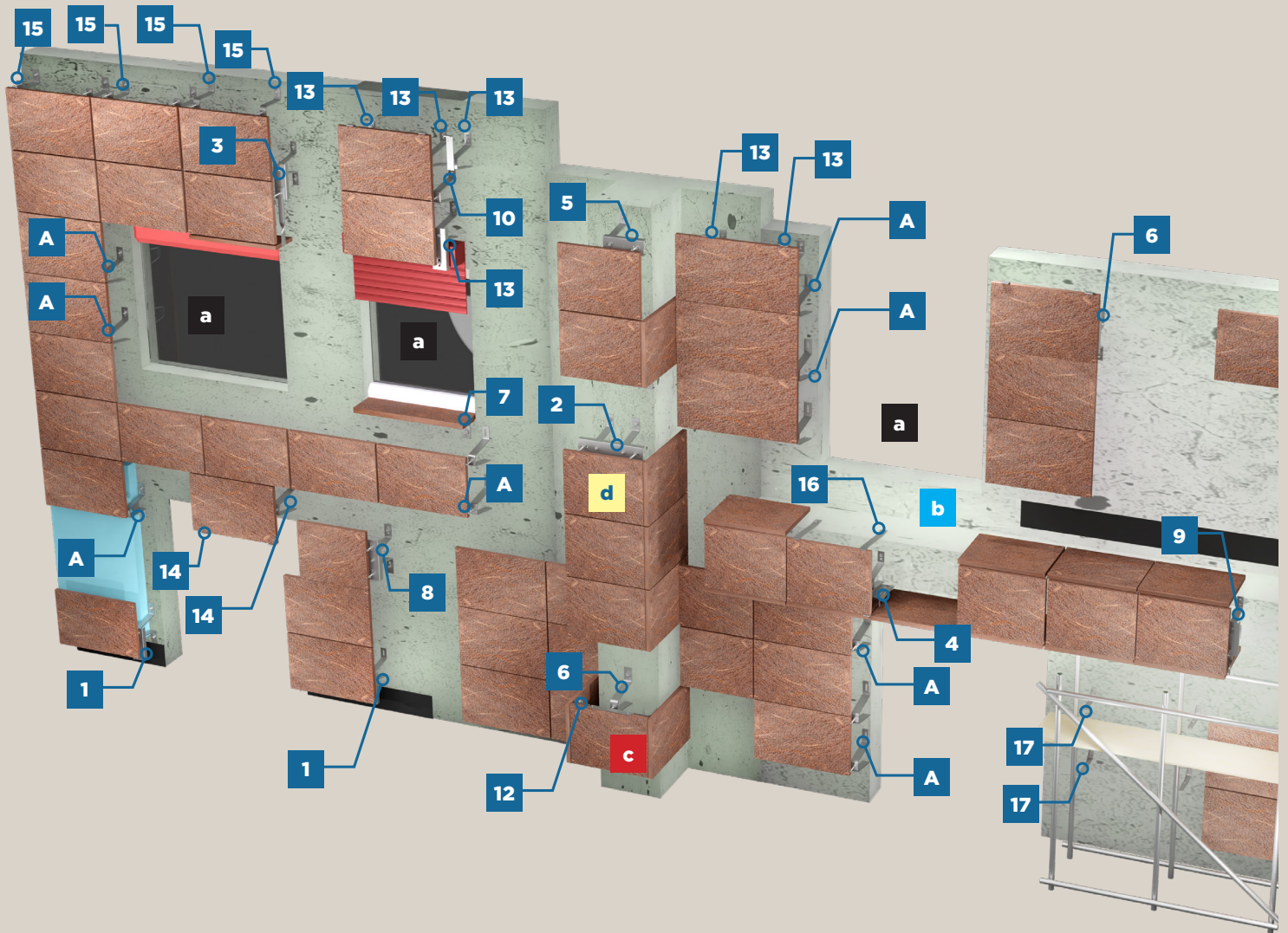
#### Hilti HIT-1 ETA 17/0005 + R-KEM ETA 21/0243

Type: Hilti HIT/ RAWL R-KEM	Hilti HIT-1	R-KEM	Hilti HIT-1	R-KEM	Hilti HIT-1	R-KEM
Anchor size	M8x90	M8x90	M10x110	M10x110	M12x135	M12x135
Tensile kN	2,0	2,5	2,5	3,5	3,5	4,0
Shearing kN	2,0	2,5	2,5	3,5	2,5	2,5
Drill bit d (mm)	12	12	16	16	16	16
Base material min. thickness h (mm)	200	200	200	200	200	200
Drill hole depthness $h_1$ (mm)	80	80	135	135	135	135
Minimum spacing $S_{min}$ (mm)	100	100	100	100	100	100
Minimum edge distance $C_{min}$ (mm)	100	100	100	100	100	100
Torque moment $T_{inst}$ (Nm)	4	4	4	4	4	4
Sieve tube size dxl (mm)	12x80	12x80	15x135	15x135	15x135	15x135

Further sizes according to claims, based on individual sizing.

**Basic materials:** According to claims 304 (1.4301) or 316 Ti (1.4571) quality stainless steel.

FACADE PATTERN



POSITIONS

**A. PXL**

- 1. PX-VU** 28. side 1. picture
- 2. DPX-HUK** 28. side 2. picture
- 3. DPX-VU + DOG** 28. side 3. picture
- 4. PXL + TQR** 28. side 4. picture
  
- 5. DPX-HU** 29. side 5. picture
- 6. PXL + AVT** 29. side 6. picture
- 7. EQRH** 29. side 7. picture
- 8. DPX-VUK** 29. side 8. picture
  
- 9. DPXL + DOG** 30. side 9. picture
- 10. DPX-VU** 30. side 10. picture
- 11. PXL + TQR** 30. side 11. picture

**12. EQR**

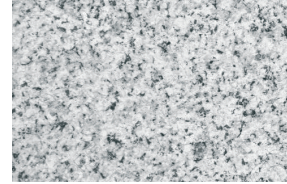
- 13. PXL+TQR**
- 14. DPX-VU + TQR**
- 15. CXL / ZXL**
- 16. PL**
- 17. FED / FEL scaffold**

- 30. side 12. picture
- 31. side 13. picture
- 31. side 14. picture
- 31. side 15. picture
- 31. side 16. picture
- 22. side

**Building elements:**

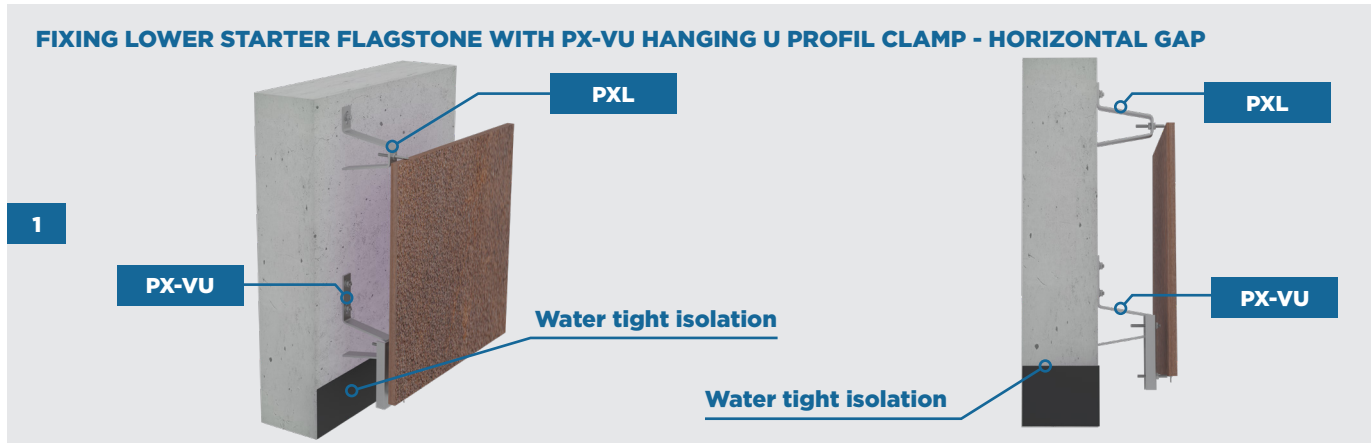
- a.** Openings
- b.** Slab
- c.** Corner
- d.** Pillar





## USING PATTERNS

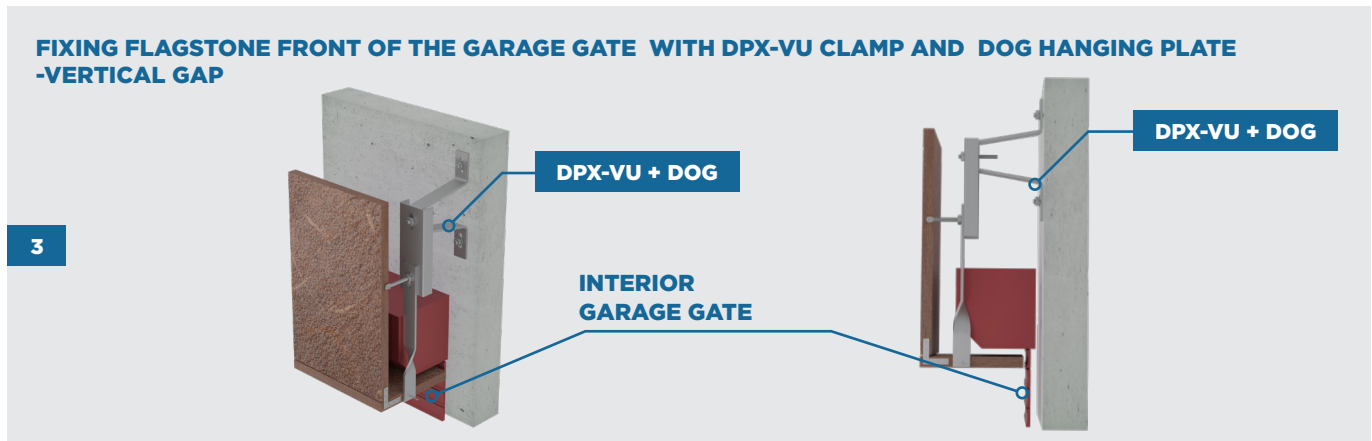
### FIXING LOWER STARTER FLAGSTONE WITH PX-VU HANGING U PROFIL CLAMP - HORIZONTAL GAP



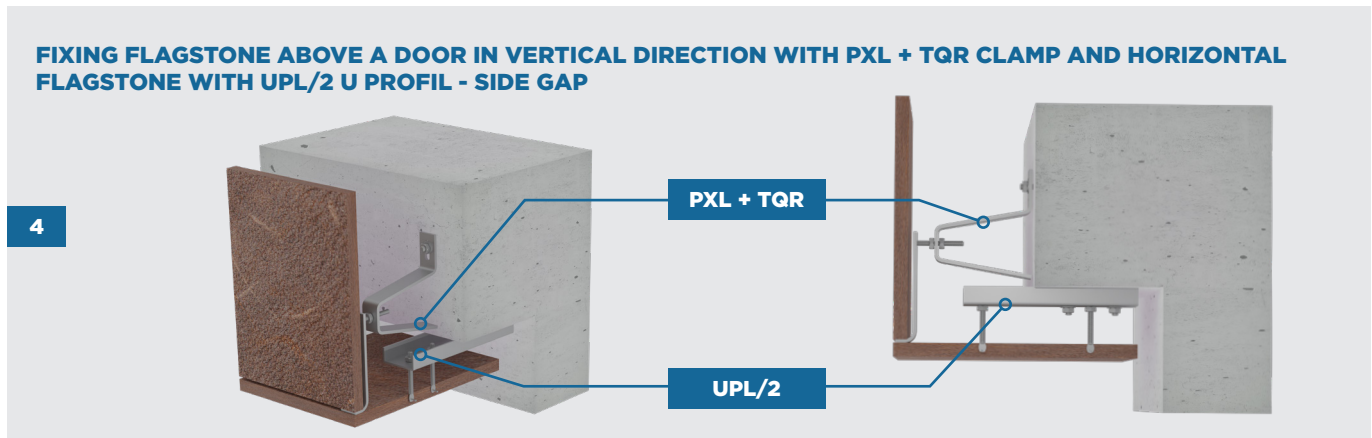
### FIXING NARROW FLAGSTONE ON PILLAR WITH DPX-HUK CENTRAL U PROFIL CLAMP - HORIZONTAL GAP



### FIXING FLAGSTONE FRONT OF THE GARAGE GATE WITH DPX-VU CLAMP AND DOG HANGING PLATE - VERTICAL GAP



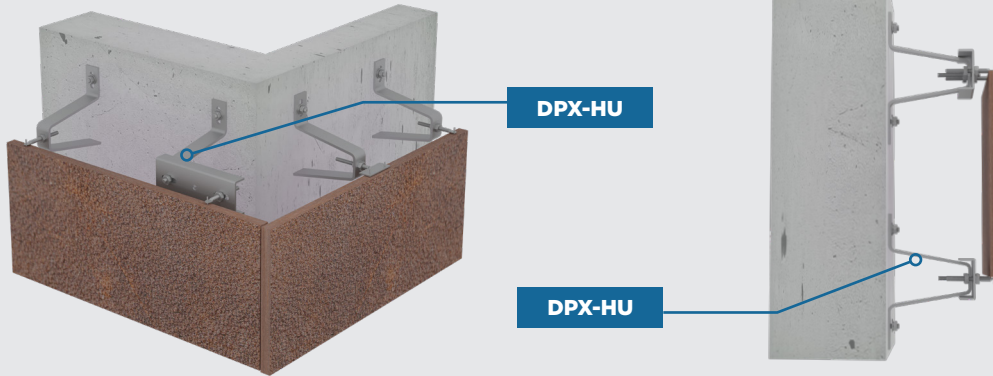
### FIXING FLAGSTONE ABOVE A DOOR IN VERTICAL DIRECTION WITH PXL + TQR CLAMP AND HORIZONTAL FLAGSTONE WITH UPL/2 U PROFIL - SIDE GAP



## USING PATTERNS

### CORNER TURNING-IN WITH DPX-HU U PROFIL CLAMP - HORIZONTAL GAP

5



### FIXING NARROW FLAGSTONE ON PILLAR WITH PXL + AVT HEADPLATE AND UNDER FIXING WITH DPX-VU + AVT HEADPLATE - HORIZONTAL GAP

6



### INNER SUPPORTING OF THE WINDOW-LEDGE WITH EQRH/1 SUPPORTING CONSOLE - HORIZONTAL GAP

7



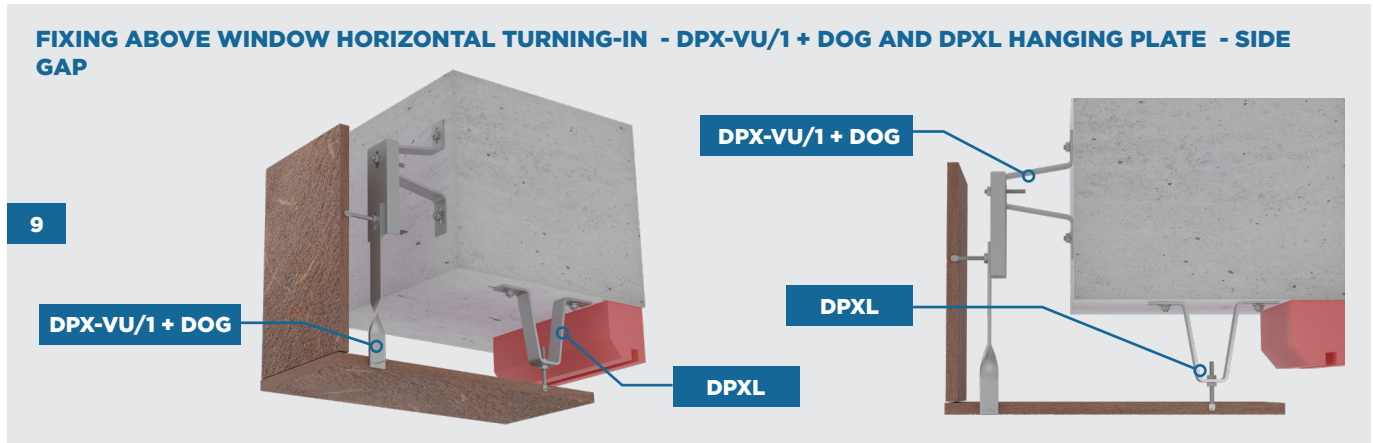
### FIXING NARROW FLAGSTONE UNDER WINDOW WITH EQRH/2 AND DPX-VUK CENTRAL U PROFIL CLAMP - VERTICAL GAP

8

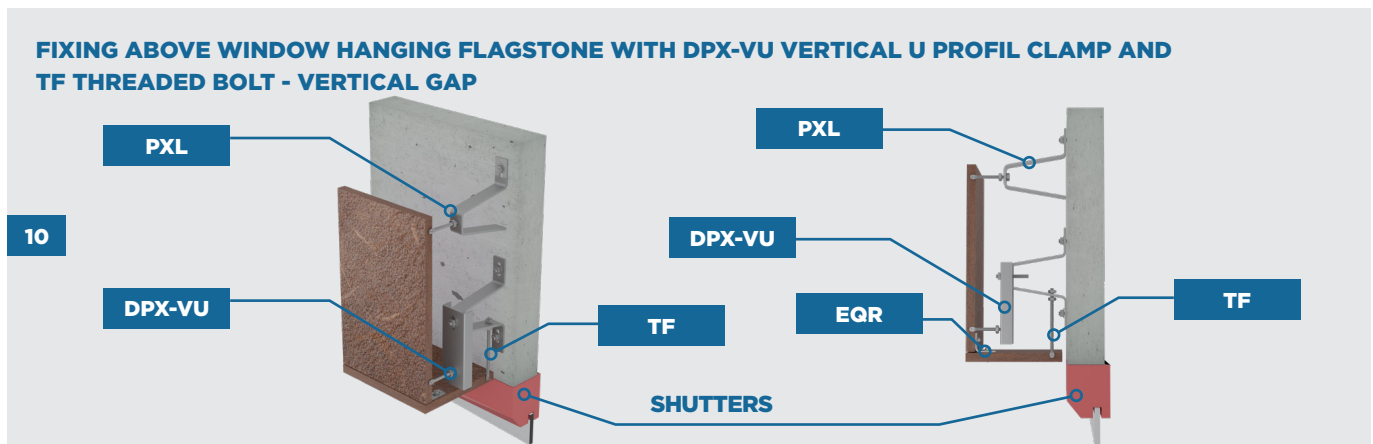


USING PATTERNS

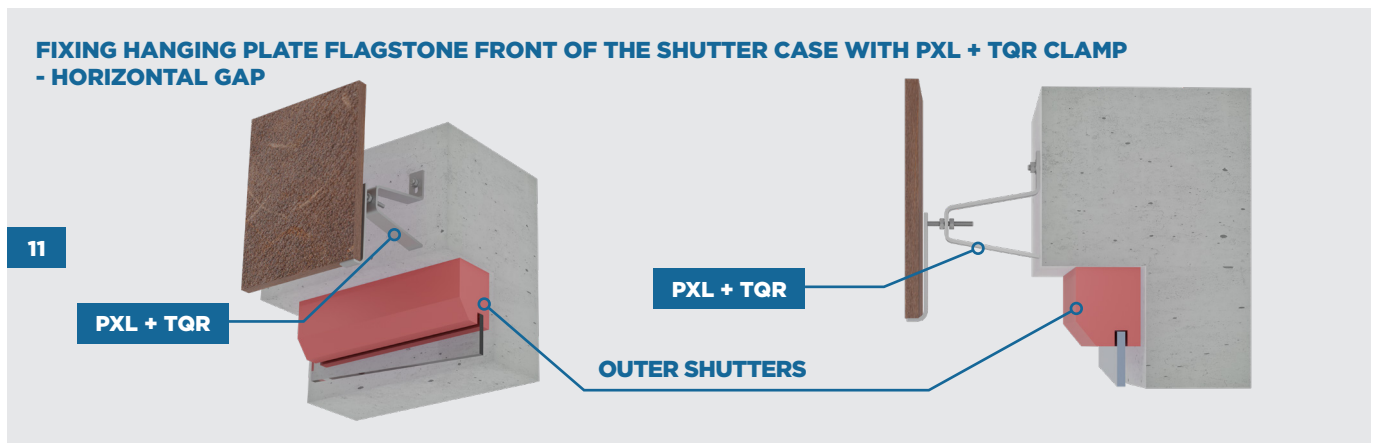
FIXING ABOVE WINDOW HORIZONTAL TURNING-IN - DPX-VU/1 + DOG AND DPXL HANGING PLATE - SIDE GAP



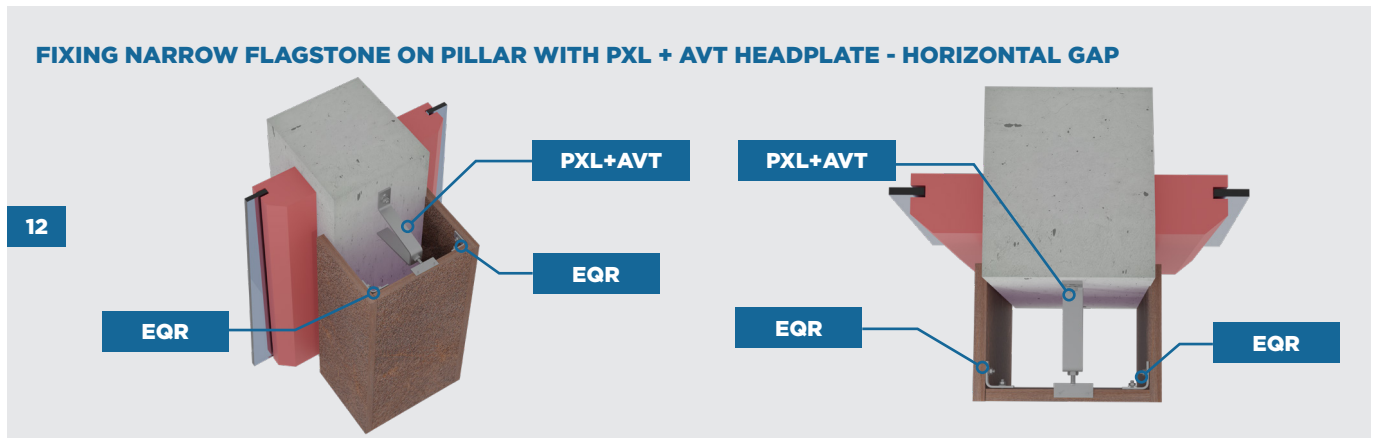
FIXING ABOVE WINDOW HANGING FLAGSTONE WITH DPX-VU VERTICAL U PROFIL CLAMP AND TF THREADED BOLT - VERTICAL GAP



FIXING HANGING PLATE FLAGSTONE FRONT OF THE SHUTTER CASE WITH PXL + TQR CLAMP - HORIZONTAL GAP

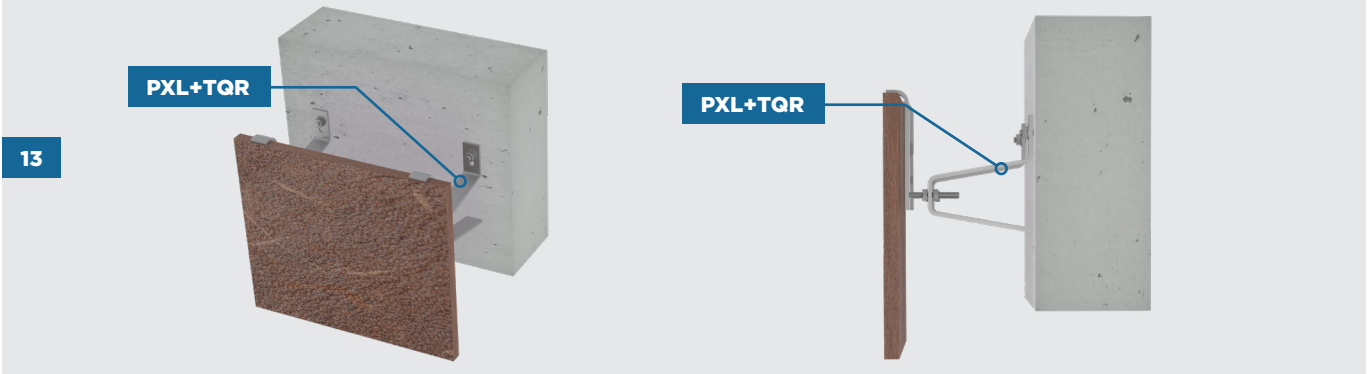


FIXING NARROW FLAGSTONE ON PILLAR WITH PXL + AVT HEADPLATE - HORIZONTAL GAP

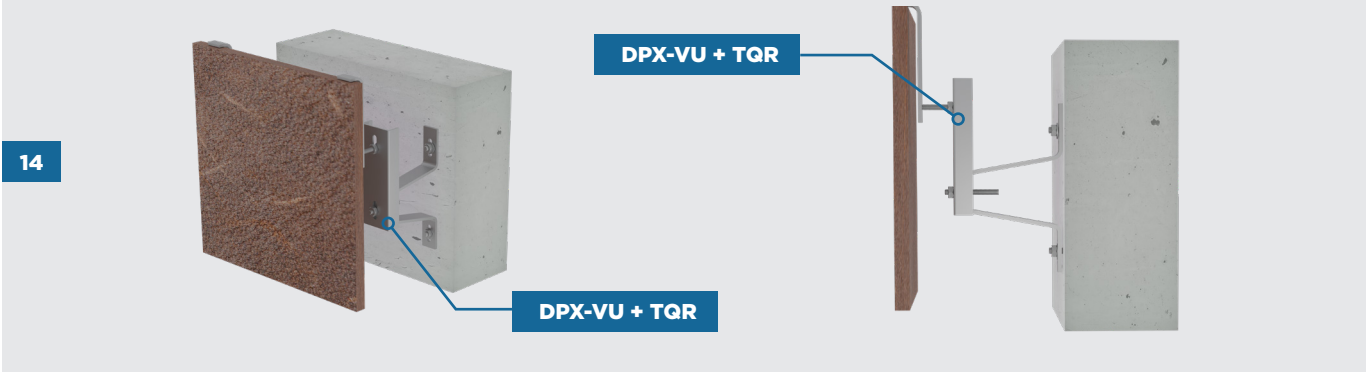


## USING PATTERNS

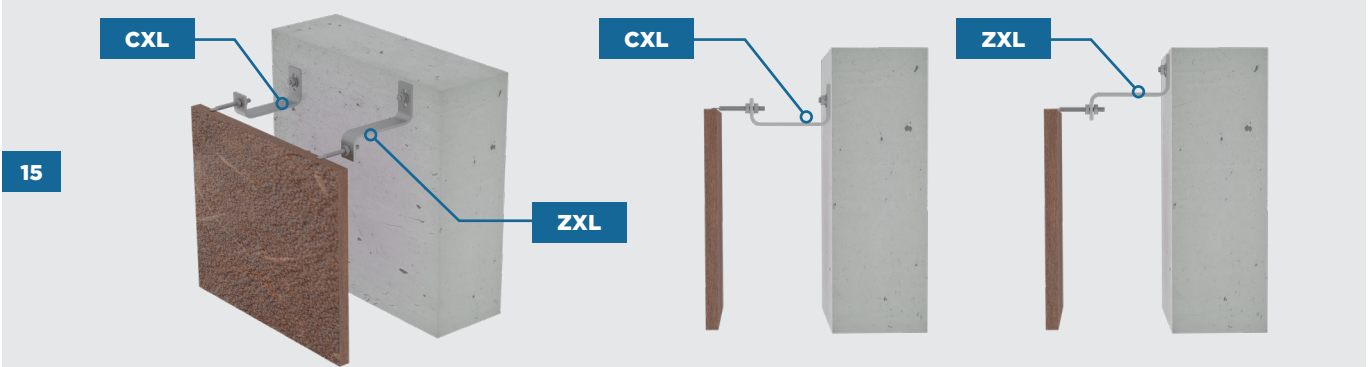
### FIXING UPPER CLOSING FLAGSTONE WITH PXL + TQR SUPPORTING - HORIZONTAL GAP



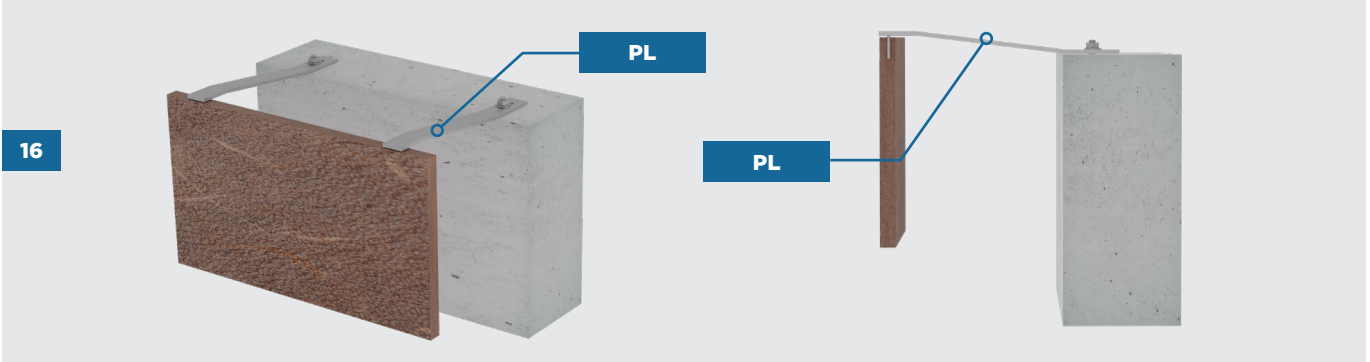
### FIXING UPPER CLOSING FLAGSTONE WITH DPX-VU + TQR UPPER SUPPORTING - HORIZONTAL GAP

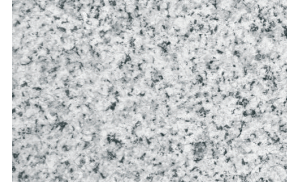


### FIXING UPPER CLOSING FLAGSTONE WITH CXL OR ZXL CLAMP - HORIZONTAL GAP

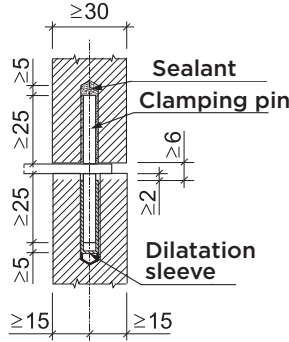
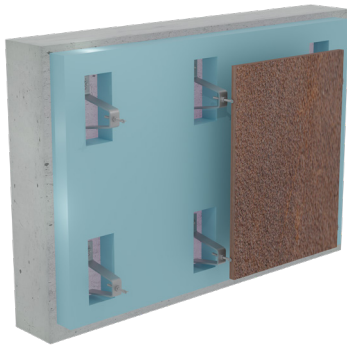


### FIXING UPPER CLOSING FLAGSTONE WITH PL ANCHORING CLAMP - HORIZONTAL GAP

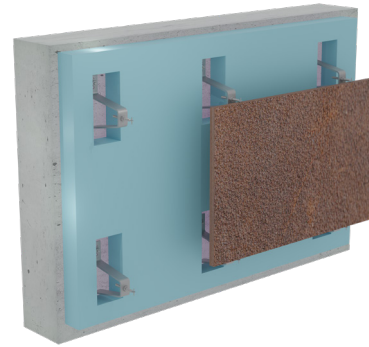




**MOUNTING IN VERTICAL COURSE-JOINT:**



**MOUNTING IN HORIZONTAL COURSE-JOINT:**



- 01.** Line up the openings and align the flagstone rows after verifying the building dimensions.
- 02.** Cut an adequate size opening in the insulation material for the console elements; put it aside then reinsert the cut-out piece of the insulation after mounting.
- 03.** After marking, drill the levelled mounting points according to the anchor table, clean them and insert the mounting anchor into the bore-hole with the forced coupling suited to its type. The shortest distances between the edge and the bore-holes should be taken into consideration.
- 04.** The mounting bore-holes in the flagstone need to be placed at a distance at least 2.5 times the width of the flagstone from its corner. Install the clamping pin in the bore-hole with the dilatation sleeve on one side and fill flexible sealing material in the bore-hole on the other side.
- 05.** Assemble the clamp with the threaded bolt and position it up to the bore-hole of the ventail and the flagstone width centreline, then slide the clamping pin into the threaded bolt.
- 06.** Eliminate irregularities on the wall-face by turning the threaded bolt in and out. Vertical setting is enabled by the oval mounting bore of the mounting clamp. The clamp may deviate from the vertical position (max 20°).
- 07.** For mounting in a horizontal interstice: the flagstones are loaded onto lower mounting elements, the upper half of the threaded bolt and the clamping pin. The lower half of the clamping pin holds the flagstone beneath against falling out or falling in.
- 08.** In a vertical interstice, insert the pin into the bore-holes drilled in the flagstone side; the entire weight of the flagstone is loaded on the lower clamp, while the top clamps hold it against falling in or out.
- 09.** Leave minimum 2 mm distance between the threaded bolt and the bottom flagstone; keep at least 5 mm distance for the entire course-joint gap for dilatation movements.
- 10.** Implement a cavity in the side of the flagstones for the threaded bolt in the case of flagstones with closed interstice.
- 11.** Reinforce the horizontal mounting of the corner flagstones with corner halving and reinforce the vertical flagstones by inserting a 'U' shaped wire clamp.
- 12.** The insertion of a supporting plate or the use of a foot-type fixing bracket is required for the surface hardness of the background masonry and due to the vulnerability of the water insulation sheet.
- 13.** The installation of scaffold anchoring to the background masonry replaces the eye bolts belonging to the scaffolding in the flagstone covering. The installation of scaffold anchoring must be documented in order to enable the implementation of scaffolding in the future.
- 14.** The attic parapet, as well as the closed and open course-joint field at the building dilatation, must be disconnected in its entire length; mount the flagstones separately on both sides.



## LOADING AND SIZING CONCERNING TO FRAME

### LOADING CONCERNING TO FLAGSTONE

SPECIFIC GRAVITY OF FLAGSTONE LOADINGS GIVING FROM THE SUCTION PRESSURE OF THE WIND

Type	$\gamma$ kN/m <sup>3</sup>	Build height	0-8 (m)	8-20 (m)	20-50 (m)	50-80 (m)	80-100 (m)	100+ (m)
Artificial stone	24,0	Wind-pressure on a plane Wny (kN/m <sup>2</sup> )	0,60	0,80	1,00	1,10	1,20	1,30
Travertin	24,0	Wind-pressure on a corner Wny (kN/m <sup>2</sup> )	1,20	1,60	2,00	2,20	2,40	2,60
Sandstone	26,0	Wind-suction on a plane Wsn (kN/m <sup>2</sup> )	0,42	0,56	0,70	0,77	0,84	0,91
Limestone	27,0	Wind-suction on a corner Wsk (kN/m <sup>2</sup> )	1,20	1,60	2,00	2,20	2,40	2,60
Granit	28,0							
Basalt	30,0							

#### CALCULATION THE LOAD ON A CONSOLE

<b>Flagstone thickness</b>	[m]	v
<b>Flagstone weight</b>	[kg] x b x c x v x $\gamma$ = G	
<b>Flagstone specific gravity</b>	[kN/m <sup>3</sup> ]	$\gamma$
<b>Load bearing consoles number</b>	[db]	n
<b>Console fixing height</b>	[m]	r
<b>Console protrusion</b>	[m]	K
<b>Build height</b>	[m]	h
<b>Height factor</b>	[m]	f

**Safety factor** 3f overloading

**Earthquake** EC-9 4f

**Wind-pressure** [kN/m<sup>2</sup>]

$f = Wny$  [kN/m<sup>2</sup>] / (s [m] x  $\gamma$  [kN/m<sup>3</sup>])

#### Flagstone values:

**Flagstone weight:**  $G = 0,9 \times 0,6 \times 0,03 \times 28 = 45,36$  kg = 0,4536 kN

**Flagstone specific gravity**  $\gamma = 28,0$  kN/m<sup>3</sup>

**Console fixing height** r = 145 mm

**Console protrusion** K = 200 mm

**Console number** n = 2 pcs

**Build height** h = 24 m

**Height factor** f = 1,0

**Wind-pressure** f = 1,1

#### Loading capacitys

##### Vertical loading

**Fixing per anchor point 0,3 kN:**

$F = G \times f / n = 0,4536$  (kN) x 1,00 (kN/m<sup>2</sup>) / 2 (db) = 0,2268 kN < **0,3 kN**

##### Vertical tensile loading:

$W = Wsn \times a \times b / n = 0,70$  kN/m<sup>2</sup> x 0,9 m x 0,6 m / 2 = 0,189 kN < **0,3 kN**

##### Shearing loading:

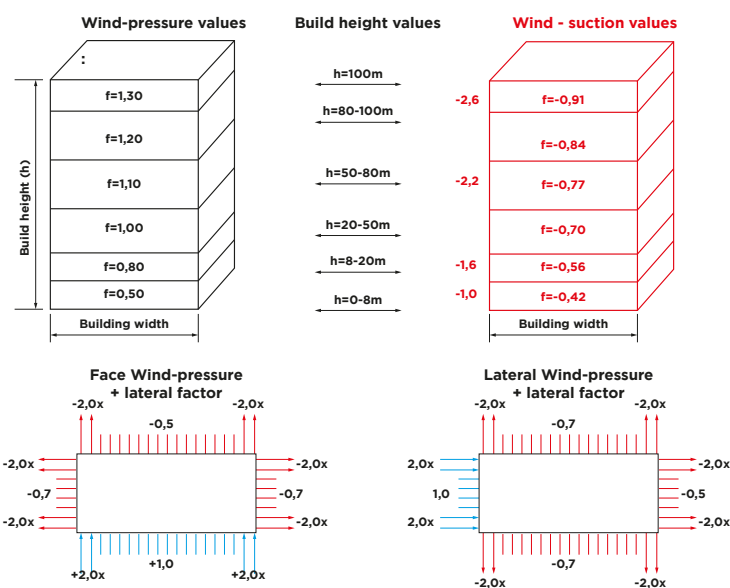
$R = \sqrt{W^2 + G^2} = \sqrt{0,2268^2 \text{ kN} + 0,189^2 \text{ kN}} = \sqrt{0,051 \text{ kN} + 0,036 \text{ kN}} = \sqrt{0,087} = 0,294 \text{ kN} < \mathbf{0,3 \text{ kN}}$

**Load calculated per anchor:** C20/25 concrete wall - Shear 5,9 kN, Tensile 7,5 kN

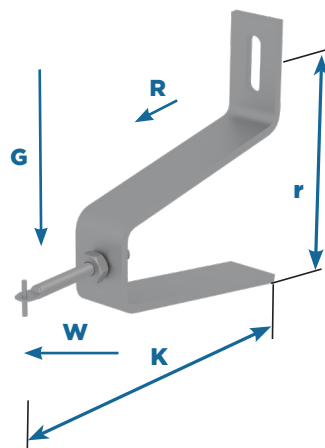
$F/G = (K+v/2) \times (G/r-v) = (0,2+0,03/2) \times (0,4536/0,145-0,03) = 0,115 \times 3,09 = 3,5 \text{ kN} < \mathbf{5,9 \text{ kN}}$

$W = (K+v) \times (G/r) = 0,2+0,03 \times 0,4536/0,145 = 0,23 \times 3,12 = 7,176 \text{ kN} < \mathbf{7,5 \text{ kN}}$

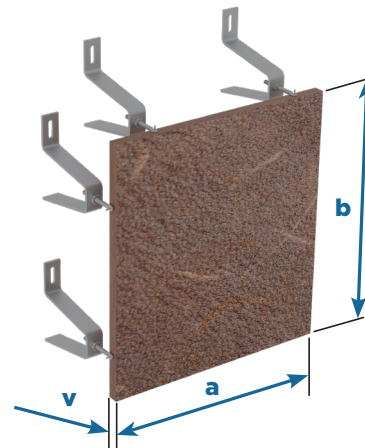
Safety factor: 3 f + Earthquake EC-9: 4 f



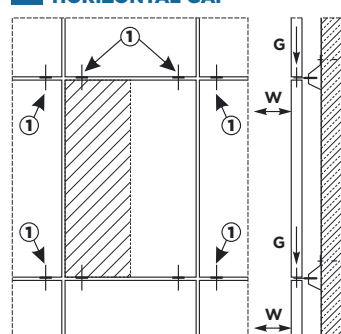
#### LOADING CONCERNING TO CLAMP



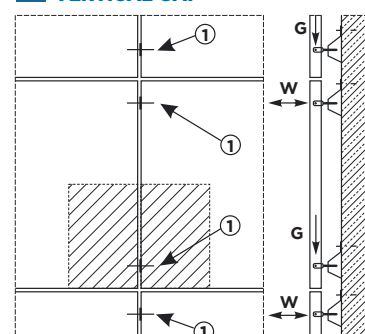
#### HORIZONTAL - VERTICAL GAP FIXING

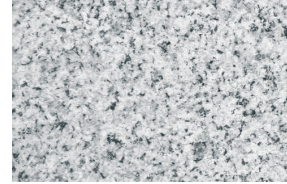


#### A HORIZONTAL GAP



#### B VERTICAL GAP





## 34 EU standards:

DIN EN 18515	Cladding for External walls
DNI EN 18516	Cladding for External walls - ventilated at rear
DIN 1053-1	Brickfacade specifications - former, withdrawn
DIN EN 1996-1-1 (EC-6)	Design of masonry structures - valid

EUROCODE	General standards	Standards	Stainless steel
EN 1990 EC	Basis of structural design	EN 10088	List of stainless steels
EN 1991 EC-1	Actions on structures	EN 1011	Recommendations for welding of stainless steel
EN 1993 EC-3	Design of steel structures	EN ISO 3506	Corrosion-resistant stainless steel fasteners
EN 1998 EC-8	Design of structures for earthquake resistance	EN 10163	Hot-rolled steel plates
EN 1999 EC-9	Design of aluminium structures		<b>Aluminium structures</b>
	<b>Load bearing standards</b>	EN 573	Aluminium and aluminium alloys
DIN EN 1045	Reinforced concrete structures	EN AW 6060	Mounting aluminium profiles
DIN EN 1055	Action on structures	EN AW 6060	Moulded aluminium profiles
EN 771	Hollow masonry units	EN AW 5754	Cold-rolled alloy sheets

1. The ventilated flagstone facade is made with openly air vents.
2. The thermal cross-section of the layered façade system satisfies the basic insulation and damp-proofing requirements, and creates an energy efficient, maintenance-free and aesthetic external look.
3. The advantages of the ventilated facade cladding are its shading effect and its ventilation vents efficiency. The ability of the air vent to drain off moisture depends. On the height of the air column min. 30 mm. In order to equalize the vapour diffusion pressure, open horizontal and vertical joints are used.
4. One of the prerequisites of the state-of-the-art architecture is the technical installation of elements in such a way that thermal expansion movements should take place without damage. Movements and forces due to different thermal loads are not transferred between the elements, they are equalised on the expansion joints.
5. The data of external and internal air-pressure are equalised by opened gap facade cracked air defence. The water can not get into the isolation through the air-layer because of the almost same air-pressure, the rain flows along the internal surface of the flagstone slab it dries out due to the ventilation.
6. The advantage of the above mentioned system is that it allows fast fixing of heavy & large flagstones.
7. All one flagstone are supported at the bottom two (2) points through clamping pin with at least min. four (4) fixing clamping pin in the side hole and are flexibly anchored at the upper two (2) points via rear wall clamps.
8. **For closed-gap facades**, dilation sections must be created every 10-15 m<sup>2</sup>, in the horizontal direction per slab level, and in the vertical direction according to cardinal points, a joint with a width of at least 20 mm must be filled with a permanently flexible facade sealing material.
9. An expansion joint of at least 5 mm must be created for **facades with open joints**. A gap of at least 2 mm must remain between the flattened head between the joints and the side of the stone slab next to it.
10. The doors, windows and wall sections are at least 15 mm the gap next to.
11. On the side of the stone side, the fixing holes must be filled with a sealing material or an expansion sleeve to avoid a dry connection, as the hole may wear out or tear out due to wind effects, on the other hand, if moisture gets into the hole, erosion processes can be initiated, in which case the flagstone will detach from the wall it can come off.
12. In the case of flagstone narrower than 15 cm, the corner-stones must be attached perpendicularly to the adjacent flagstone with corner clamp.
13. When selecting the clamp, the total loads associated with driving rain and wind loads must be taken into account.
14. The clamps and fasteners are of stainless steel material quality, resistant to oxidation in the vapor diffusion medium.
15. The facade flagstone cannot be loaded, only the external assembly installed in front of the construction can be attached to the rear background masonry.
16. All fixing elements to be installed must have the required certificates.





## FACADE MOUNTING TECHNOLOGY

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