

## CATALOG

ProFix system asymmetrical-holderconsole for brick façade

TYPE: **PFC-6**

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



# HR PROFIX

PFC 6 type  
console-modul

Anchor plate

Anchor stud

Anchor nut

Height adjustment plate

± 55 mm

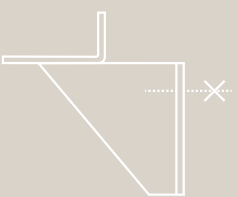
## Module versions



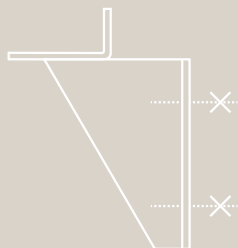
V - hanging



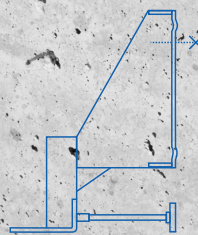
2D - double Anchors



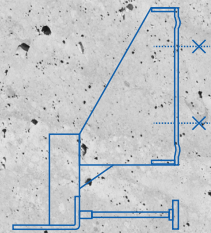
F - reverse



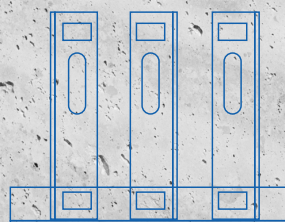
2F - reverse double Anchors



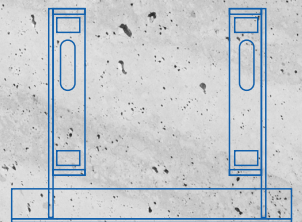
VL-KT with adjustable  
outrigger



2D-VL-KT double anchors  
with adjustable outrigger



3M - three modules



2V - hanging two modules

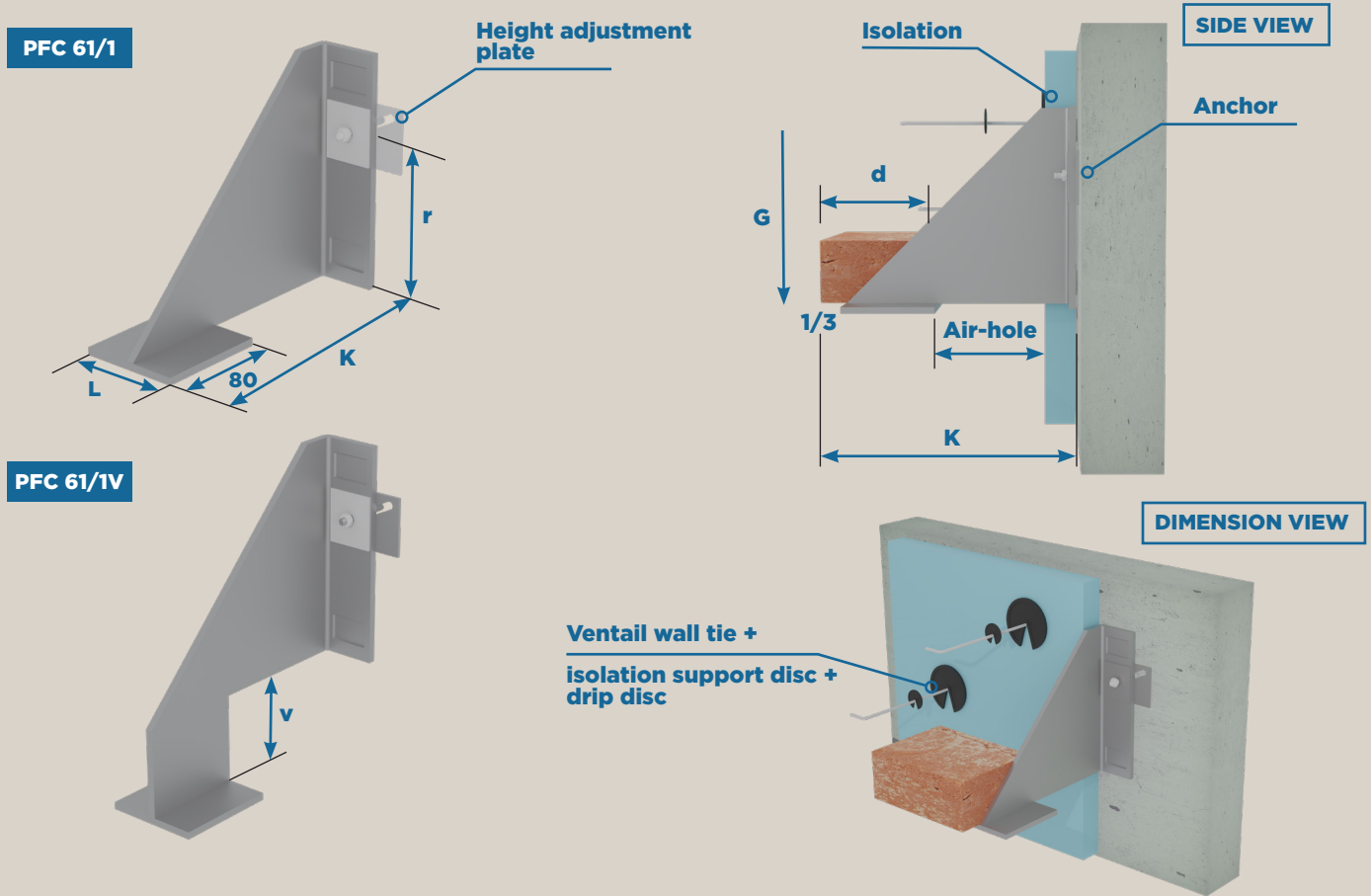
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## CONTENT

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PFC 61/1 and PFC 61/1V support console with 1 module	04
PFC 62/1 and PFC 62/1V hanging console with 1 module	05
PFC 63/1 and PFC 63/1V support profile-console with 1 module	06
PFC 64/1-2D and PFC 64/1V-2D pillar profile-console with 1 module	07
PFC 65/2 and PFC 65/2V support profile-console with 2 modules	08
PFC 66/2 and PFC 66/2V hanging profile-console with 2 modules	09
PFC 67/2 and PFC 67/2V bevel corner - support profile-console with 2 modules	10
PFC 68/2 and PFC 68/2V corner plate- support profile-console with 2 modules	11
PFC 69/2-2D slab support profile-console with 2 modules	12
PFC 60/1-2D and 60/2 upper support profile-console with 1 - 2 modules	13
PFC 11/A lower support console-profile with diaphragm	14
PFC 11/F upper support console-profile with diaphragm	15
PFC 12/A and PFC 12/F lower and upper support console-profile without diaphragm	16
PFC 11 or PFC 12 PFK alu mounting profile with lower and upper support console-profile with or without diaphragm + FC wall console	17
PFC 13, PFC 13/D and PFC 13LL bridging profile and with diaphragm and with double profiles	18
PFH hanging loops, PFP string rods and PFF hanging console	19
PFR ventail wall tie	20
PFR Installation guide	21
PFI vault hanger + PFL corner plate	22
PFE scaffold anchoring	23
PFA Attic aluprofile with console and tie	24
Anchor fixing	25
Facade pattern	26
Dilatation gap	27
Using patterns	28
Installation guide	32
Loading and sizing concerning to frame	33
General instructions	34

PFC 61/1 AND PFC 61/1V SUPPORTING CONSOLE WITH 1 MODULE



Type	Console protrusion k	Fixed height r	Loading capacity G	Anchor
PFC 61/1	150 -250 mm	200 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 61/1	260-350 mm	250 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 61/1	360-400 mm	300 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 61/1	410-500 mm	350 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element:** 1 pc PFC 61/1 console + 1 pc height adjustment plate

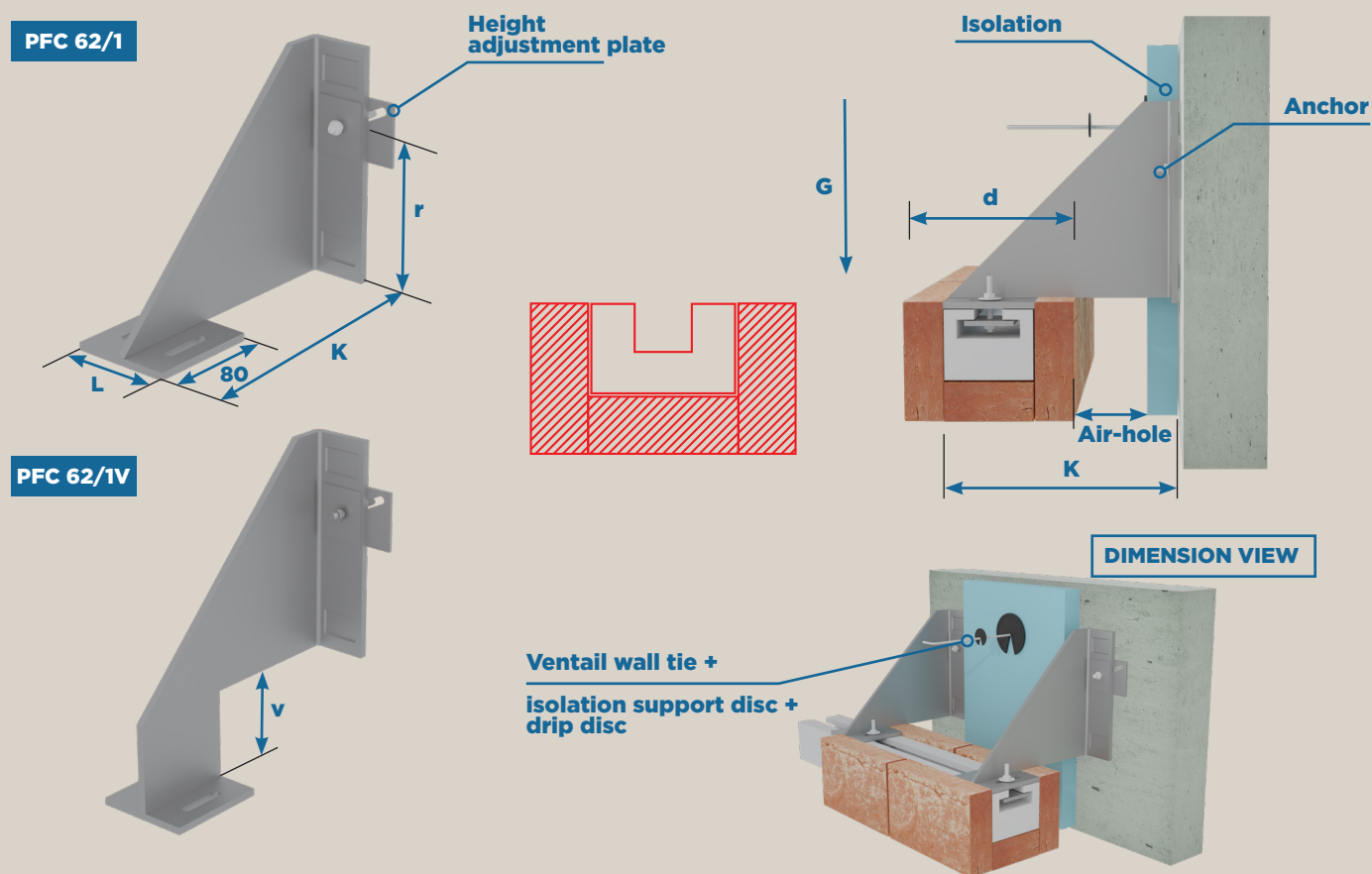
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PFC 61/ fixing point - console protrusion (k) / sole size L (80) - Loading (kN)

**Example:** PFC 61/1-310/80/80-7,0 kN or PFC 61/1V-310/80/80-7,0 kN V=300 mm

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

## PFC 62/1 AND PFC 62/1V HANGING CONSOLE WITH 1 MODULE



Type	Console protrusion k	Fixed height r	Loading capacity G	Anchor
PFC 62/1	150 -250 mm	200 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 62/1	260-350 mm	250 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 62/1	360-400 mm	300 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 62/1	410-500 mm	350 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element:** 1 pc PFC 62/1 console + 1 pc height adjustment plate

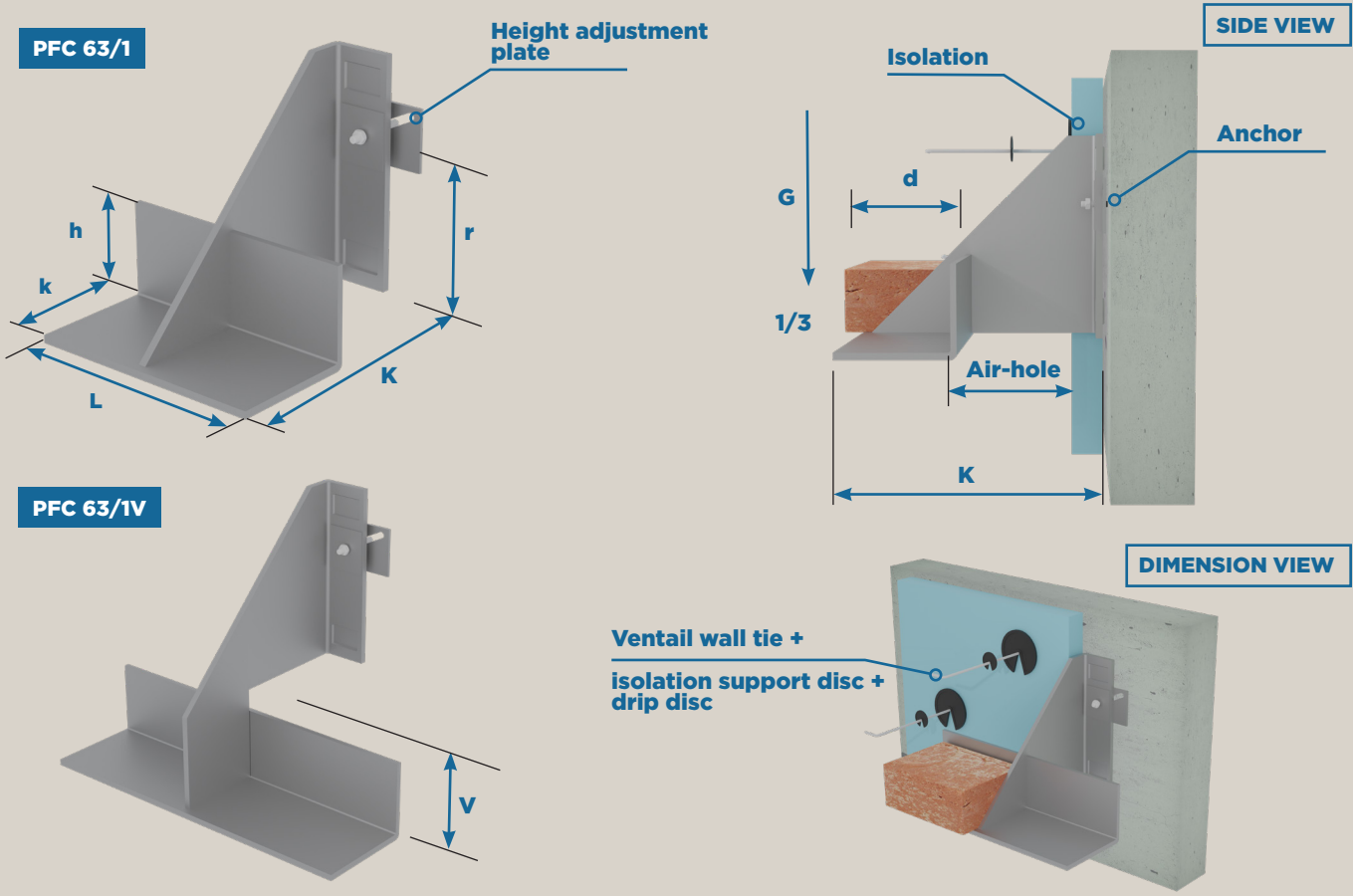
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PFC 62/ fixing point - console protrusion (k) / sole size L (100) - Loading (kN)

**Example:** PFC 62/1-310/100/80-7,0 kN or PFC 62/1V-310/100/80-7,0 kN V=300 mm

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

PFC 63/1 AND PFC 63/1V SUPPORTING PROFILE-CONSOLE WITH 1 MODULE



Type	Console protrusion k	Fixed height r	Loading capacity G	Anchor
PFC 63/1	150 -250 mm	200 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 63/1	260-350 mm	250 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 63/1	360-400 mm	300 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 63/1	410-500 mm	350 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element:** 1 pc PFC 63/1 console + 1 pc height adjustment plate

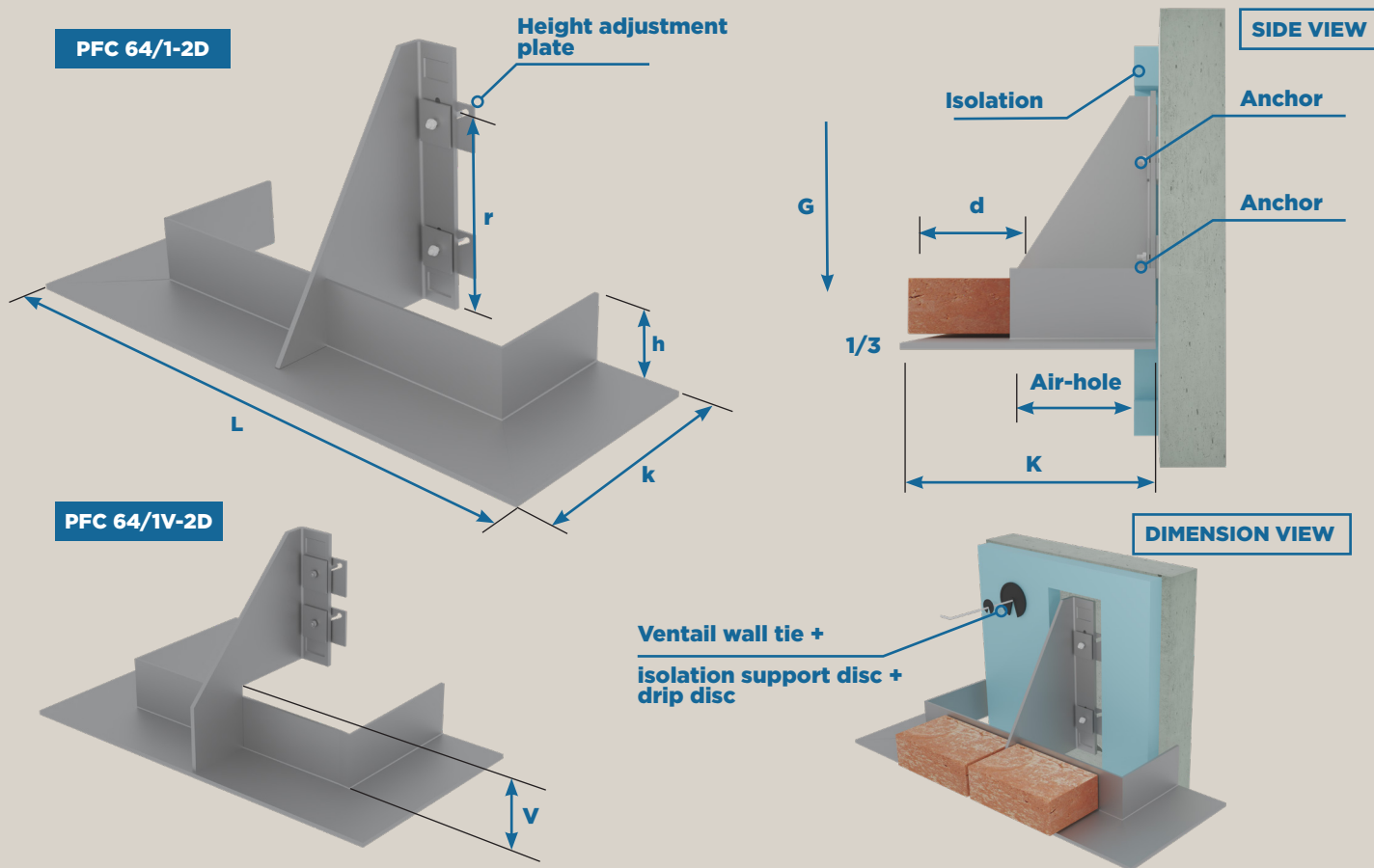
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PFC 63/ fixing point - console protrusion (k) / profil lenght (L) - Loading (kN)

**Example:** PFC 63/1-310/300-7,0 kN or PFC 63/1V-310/300-7,0 kN V=300 mm

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

## PFC 64/1-2D AND PFC 64/1V-2D PILLAR PROFILE-CONSOLE WITH 1 MODULE



Type	Console protrusion k	Fixed height r	Loading capacity G	Anchor
PFC 64/1-2D	150 -250 mm	200 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 64/1-2D	260-350 mm	250 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 64/1-2D	360-400 mm	300 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 64/1-2D	410-500 mm	350 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti(1.4571) quality stainless steel

**Complete fixing element:** 1 pc PFC 64/1-2D console + 2 pc height adjustment plate

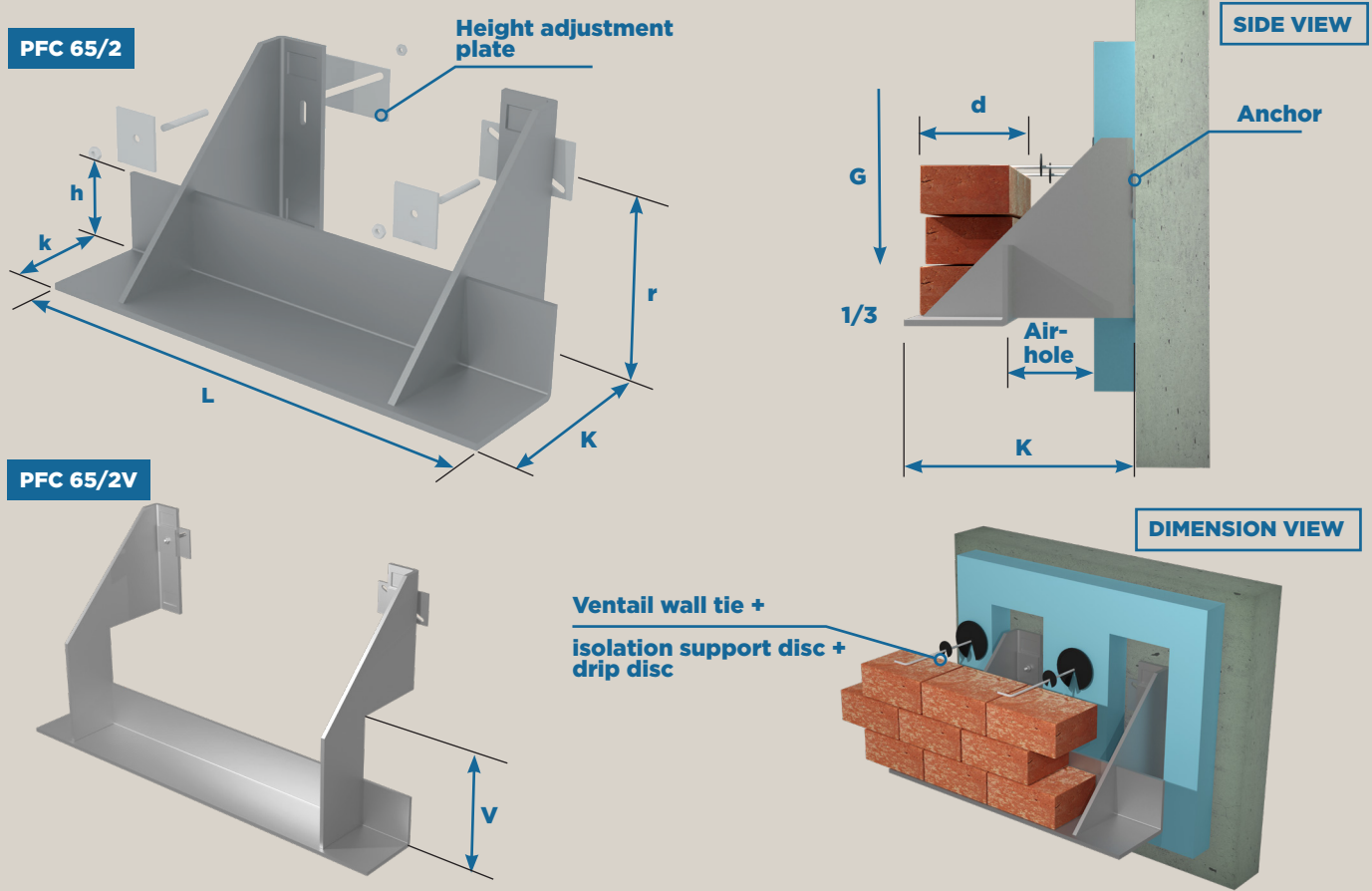
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PFC 64/ fixing point - console protrusion (k) / profil lenght (L)- Loading (kN)

**Example:** PFC 64/1-2D-310/500/200-7,0 kN or PFC 64/1V-2D-310/500/200-7,0 kN V=300 mm

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

**PFC 65/2 AND PFC 65/2V SUPPORTING PROFILE-CONSOLE WITH 2 MODULES**



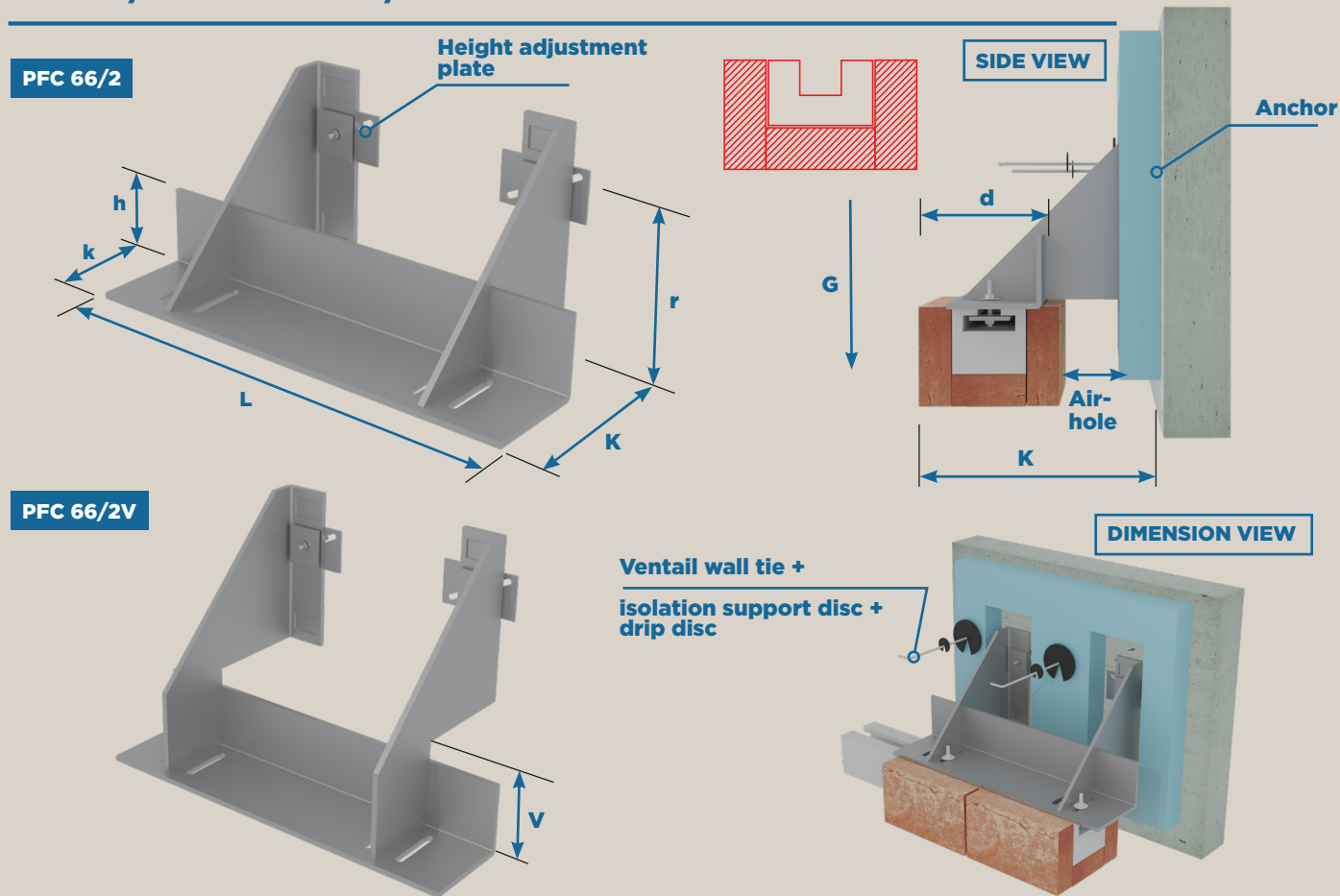
Type	Console protrusion k	Fixed height r	Loading capacity G	Anchor
PFC 65/2	150 -250 mm	200 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 65/2	260-350 mm	250 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 65/2	360-400 mm	300 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 65/2	410-500 mm	350 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165

Further dimensions according to additional sizing upon request.

- Basic materials:** According to claims 308 (1.4301) 316 Ti(1.4571) quality stainless steel
- Complete fixing element:** 1 pc PFC 65/2 console + 2 pc height adjustment plate
- Fixing:** The used anchors are according to the producer's technical datas.
- Marking:** PFC 65/ fixing point - console protrusion (k) / profil lenght (L)- Loading (kN)
- Example:** PFC 65/2-310/1500-7,0 kN or: PFC 65/2V-310/1500-7,0 kN V=300 mm
- Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness



## PFC 66/2 AND PFC 66/2V HANGING PROFILE CONSOLE WITH 2 MODULES



Type	Console protrusion k	Fixed height r	Loading capacity G	Anchor
PFC 66/2	150 -250 mm	200 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 66/2	260-350 mm	250 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 66/2	360-400 mm	300 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 66/2	410-500 mm	350 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti(1.4571) quality stainless steel

**Complete fixing element:** 1 pc PFC 66/2 console + 2 pc height adjustment plate

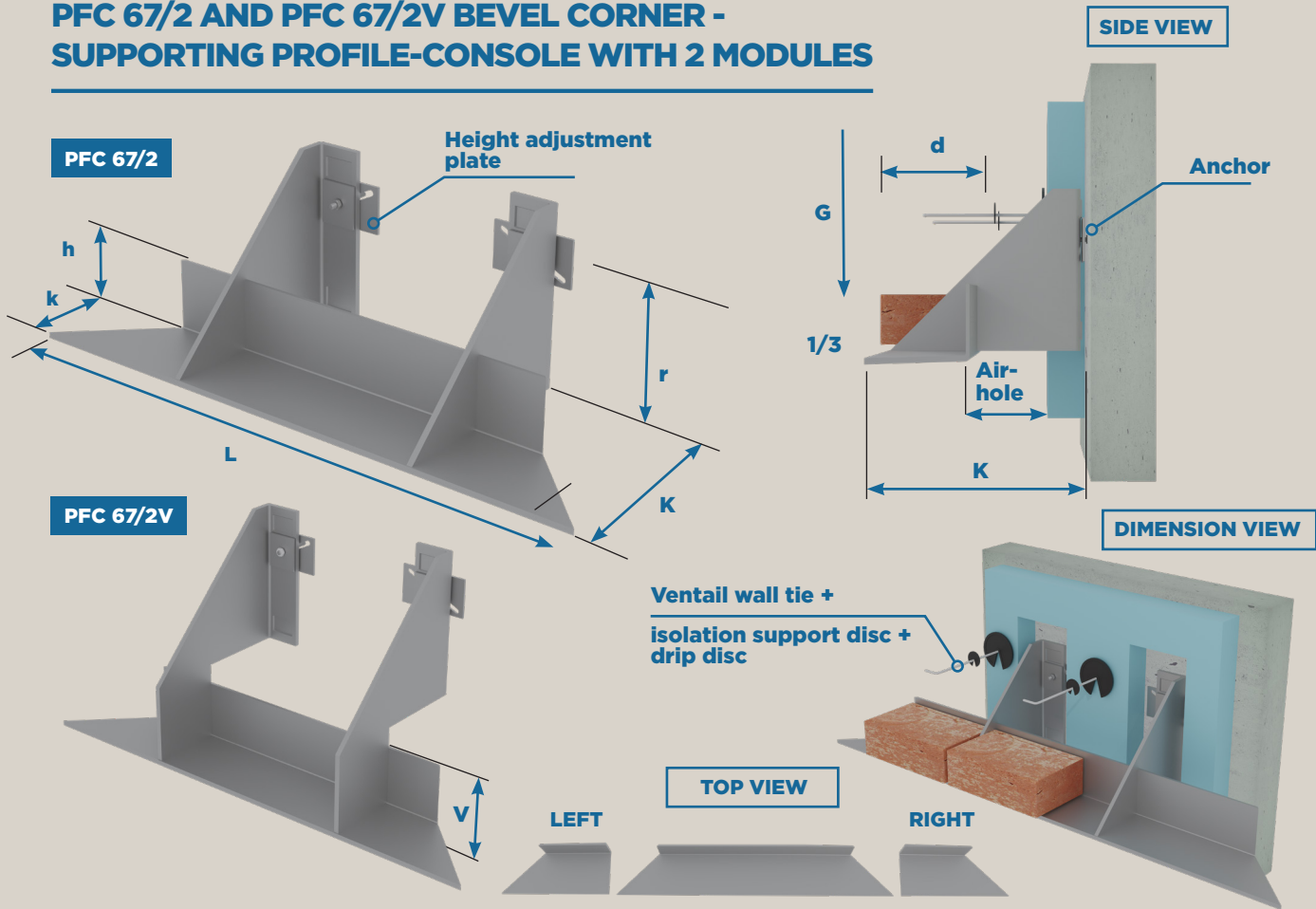
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PFC 66/ fixing point - console protrusion (k) / profil lenght (L)- Loading (kN)

**Example:** PFC 66/2-310/1600-7,0 kN or PFC 66/2V-310/1600-7,0 kN V=300 mm

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

**PFC 67/2 AND PFC 67/2V BEVEL CORNER -  
SUPPORTING PROFILE-CONSOLE WITH 2 MODULES**



Type	Console protrusion k	Fixed height r	Loading capacity G	Anchor
PFC 67/2	150 -250 mm	200 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 67/2	260-350 mm	250 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 67/2	360-400 mm	300 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 67/2	410-500 mm	350 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element:** 1 pc PFC 67/2 console + 2 pc height adjustment plate

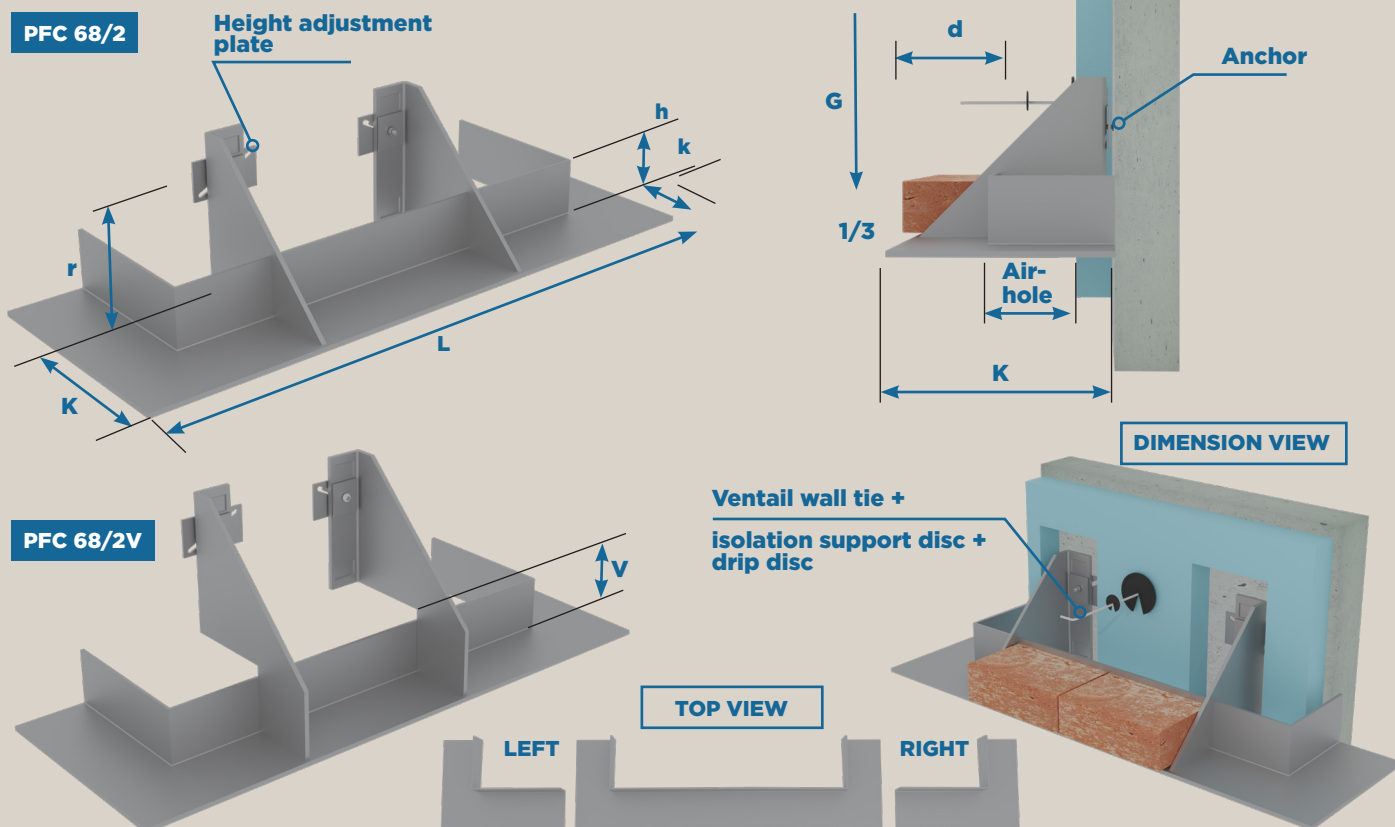
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PFC 67/ fixing point - console protrusion (k) / profil lenght (L)- Loading (kN)

**Example:** PFC 67/2-310/J-1450-7,0 kN or PFC 67/2V-310/B-1650-7,0 kN V=300 mm

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

## PFC 68/2 AND PFC 68/2V CORNER PLATED SUPPORTING PROFILE-CONSOLE WITH 2 MODULES



Type	Console protrusion k	Fixed height r	Loading capacity G	Anchor
PFC 68/2	150 -250 mm	200 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 68/2	260-350 mm	250 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 68/2	360-400 mm	300 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 68/2	410-500 mm	350 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element:** 1 pc PFC 68/2 console + 2 pc height adjustment plate

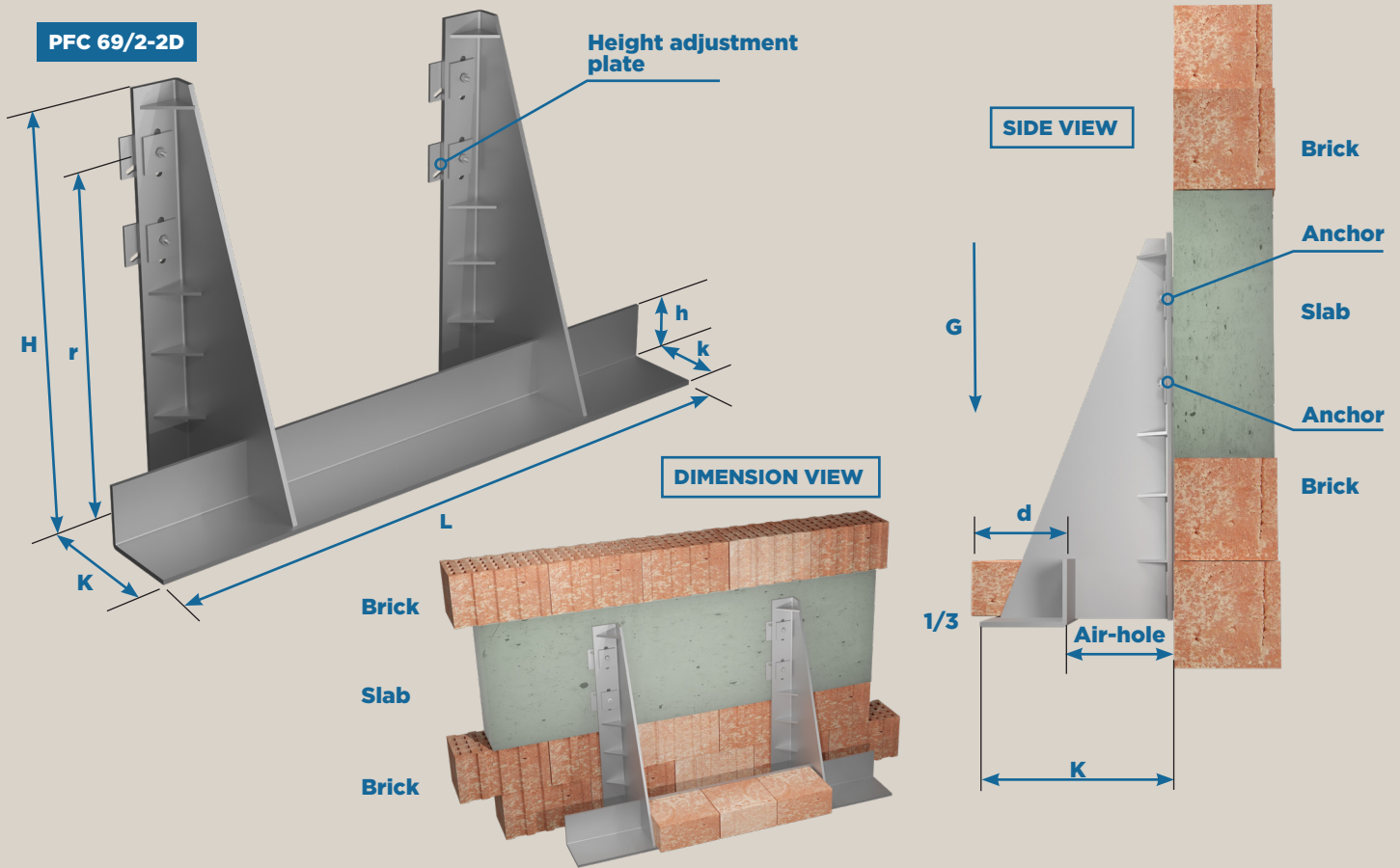
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PFC 68/ fixing point - console protrusion (k) / profil lenght (L)- Loading (kN)

**Example:** PFC 68/2-310/J-1550-7,0 kN or PFC 68/2V-310/JB-1600-7,0 kN V=300 mm

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

PFC 69/2-2D SLAB SUPPORTING PROFILE-CONSOLE WITH 2 MODULES



Type	Console protrusion k	Fixed height r	Loading capacity G	Anchor
PFC 69/2-2D	150 -250 mm	Based on a plan	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 69/2-2D	260-350 mm	Based on a plan	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 69/2-2D	360-400 mm	Based on a plan	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 69/2-2D	410-500 mm	Based on a plan	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element:** 1 pc PFC 69/2 console + 4 pc height adjustment plate

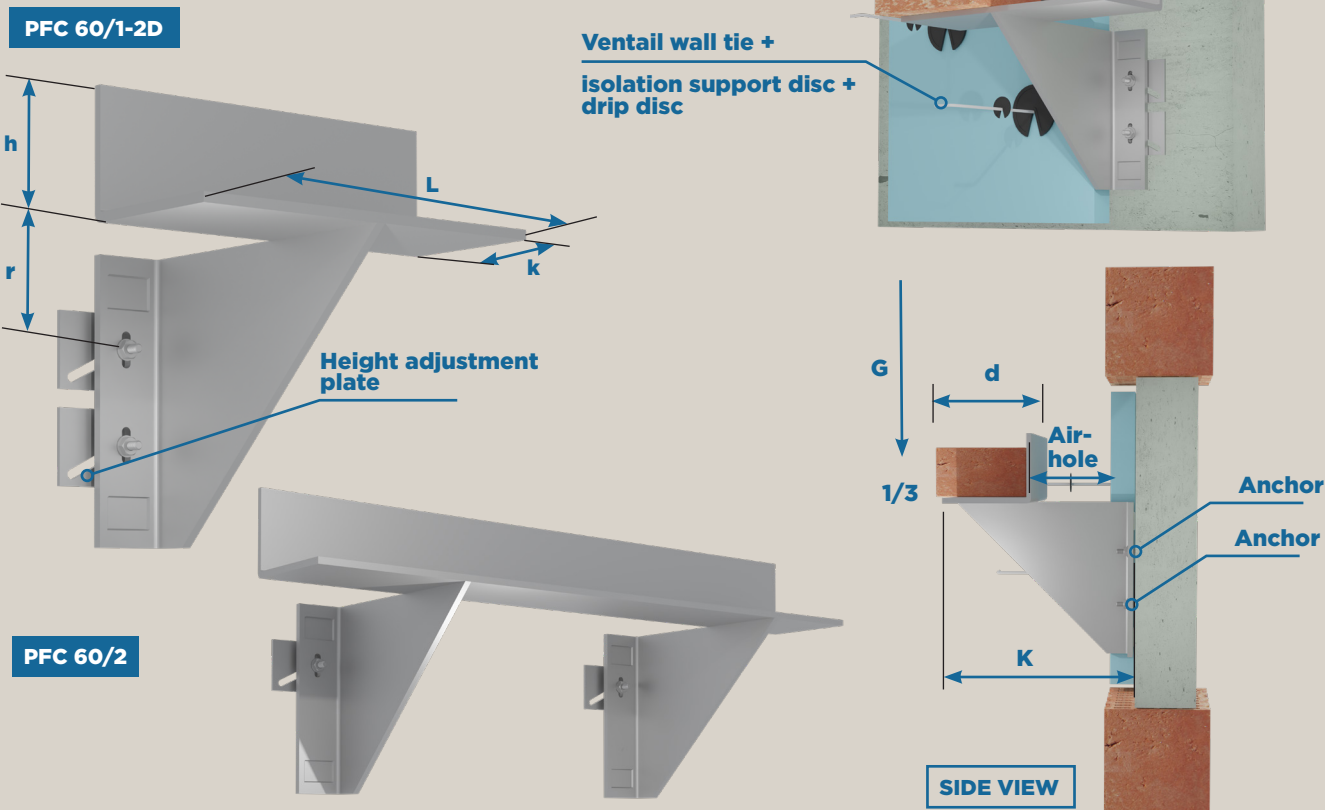
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PFC 69/ fixing point - console protrusion (k) / profil lenght (L)/ console height (H)- Loading (kN)

**Example:** PFC 69/2-2D-310/1600/650-7,0 kN H=650 mm

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

## PFC 60/1-2D AND 60/2 UPPER SUPPORT PROFILE-CONSOLE WITH 1 - 2 MODULES



Type	Console protrusion k	Fixed height r	Loading capacity G	Anchor
PFC 60/1-2D PFC 60/2	150 -250 mm	200 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 60/1-2D PFC 60/2	260-350 mm	250 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 60/1-2D PFC 60/2	360-400 mm	300 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165
PFC 60/1-2D PFC 60/2	410-500 mm	350 mm	3,5 kN	M10x110
			7,0 kN	M12x140
			10,5 kN	M16x165

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element:** 1 pc PFC 60/1-2D console + 2 pc height adjustment plate

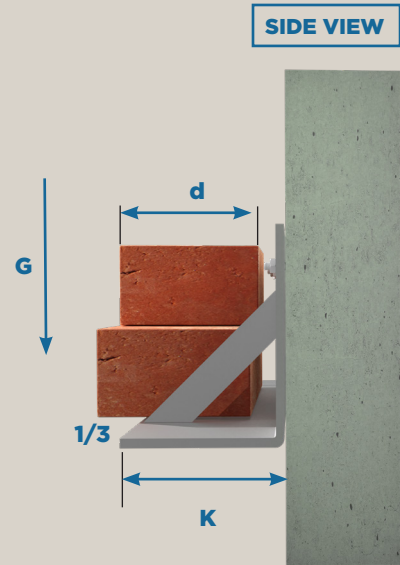
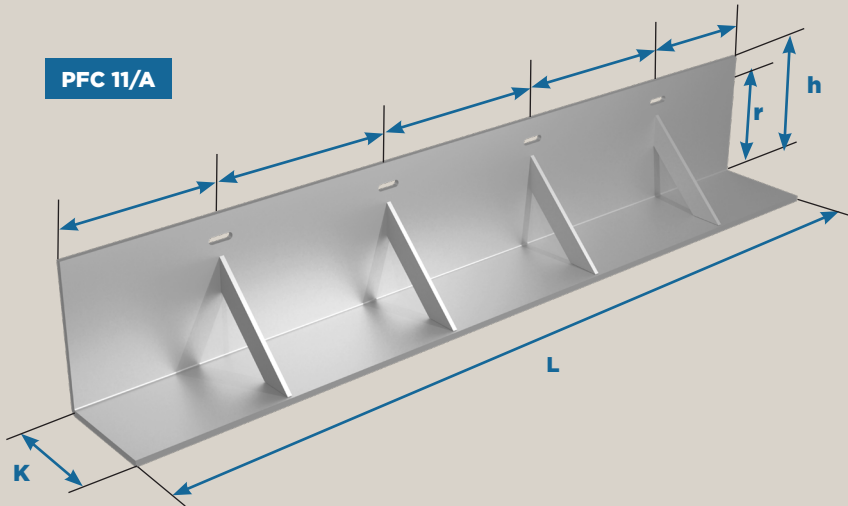
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PFC 60/ fixing point - console protrusion (k) / profil lenght (L)- Loading (kN)

**Example:** PFC 60/1-2D-310/300-7,0 kN or PFC 60/2-310/1250-7,0 kN

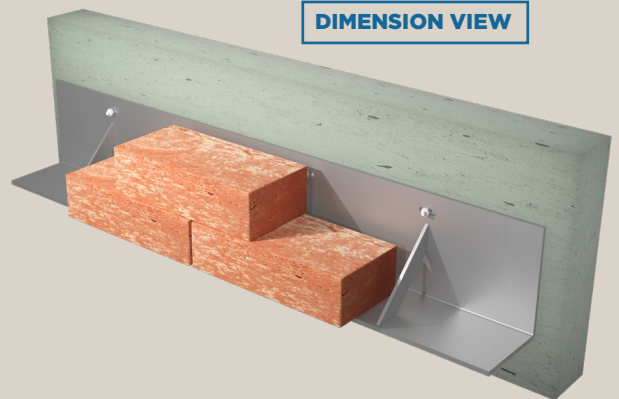
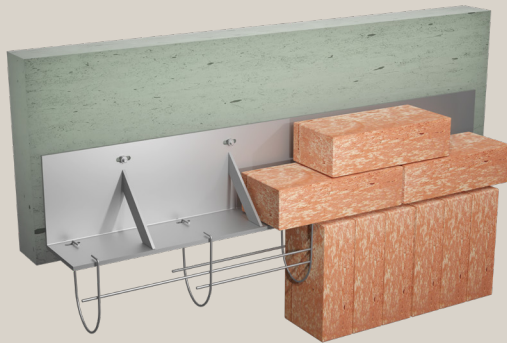
**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

**PFC 11/A LOWER-SUPPORTING CONSOLE PROFILE WITH DIAPHRAGM**



**PFC 11/AK**

Fixing with hanging loops above openings



Type	Console protrusion k	Fixed height r	Console height h	Loading capacity G	Anchor
PFC 11/A	60 - 90 mm	75 - 105 mm	90 - 120 mm	3,5 kN	M10x110
				7,0 kN	M12x140
PFC 11/A	100 - 110 mm	115 - 125 mm	130 - 140 mm	3,5 kN	M10x110
				7,0 kN	M12x140
PFC 11/A	120 - 130 mm	135 - 145 mm	150 - 160 mm	3,5 kN	M10x110
				7,0 kN	M12x140
PFC 11/A	140 - 160 mm	155 - 175 mm	170 - 190 mm	3,5 kN	M10x110
				7,0 kN	M12x140

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element:** 1 pc PFC 11/A console

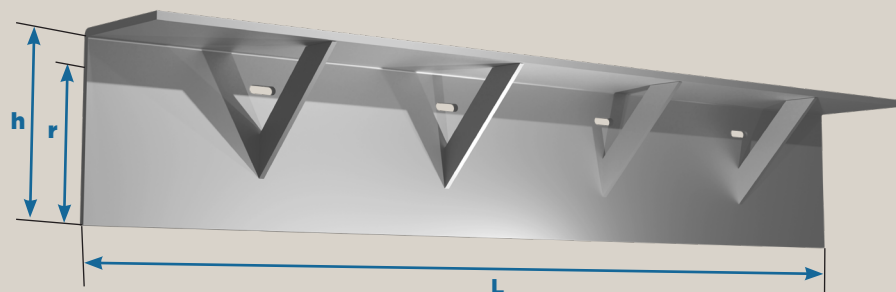
**Fixing:** The used anchors are according to the producer's technical datas.

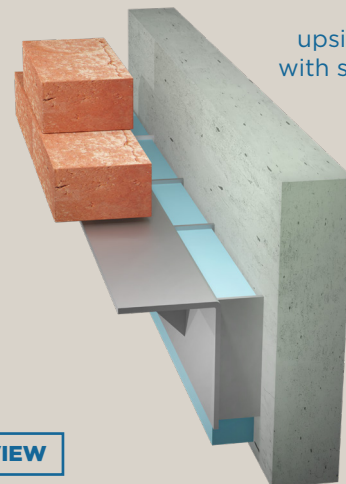
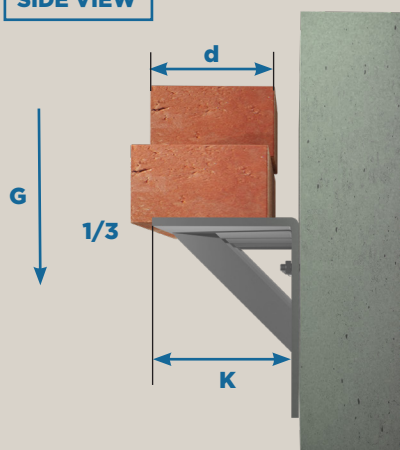
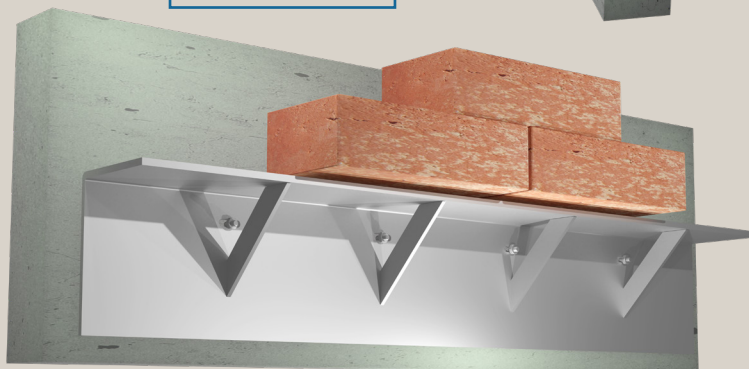
**Marking:** PFC 11/fixing point - console protrusion (k) / console height (h)- profil lenght (L)- Loading (kN)

**Example:** PFC 11/A-4-160/190-1000-3,5 kN

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

## PFC 11/F UPPER-SUPPORTING CONSOLE PROFILE WITH DIAPHRAGM

**PFC 11/F**

**PFC 11/FT**

 Fixing  
 upside - down  
 with supporting  
 backplate

**SIDE VIEW**

**DIMENSION VIEW**


Type	Console protrusion k	Fixed height r	Console height h	Loading capacity G	Anchor
PFC 11/F	60 - 90 mm	75 - 105 mm	90 - 120 mm	3,5 kN	M10x110
				7,0 kN	M12x140
PFC 11/F	100 - 110 mm	115 - 125 mm	130 - 140 mm	3,5 kN	M10x110
				7,0 kN	M12x140
PFC 11/F	120 - 130 mm	135 - 145 mm	150 - 160 mm	3,5 kN	M10x110
				7,0 kN	M12x140
PFC 11/F	140 - 160 mm	155 - 175 mm	170 - 190 mm	3,5 kN	M10x110
				7,0 kN	M12x140

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element consists:** 1 pc PFC 11/F console

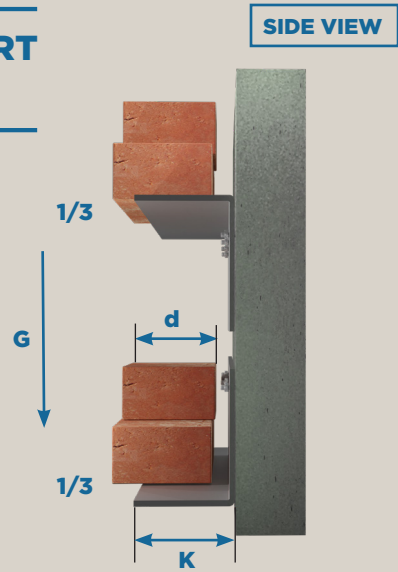
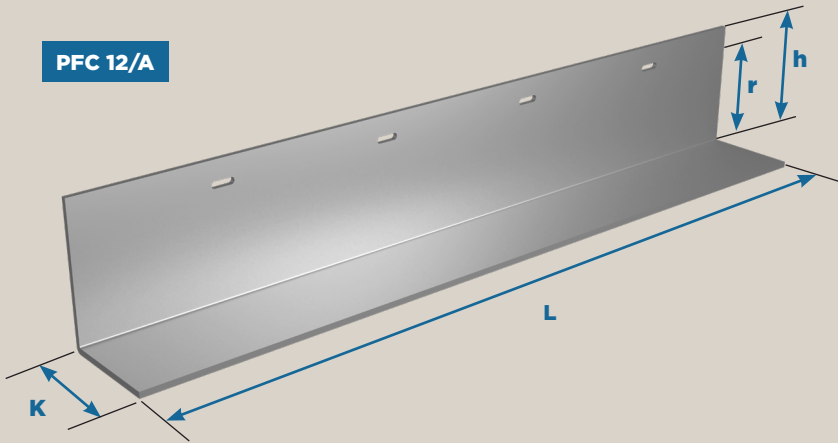
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PFC 11/fixing point - console protrusion (k) / console height (h)- profil lenght (L)- Loading (kN)

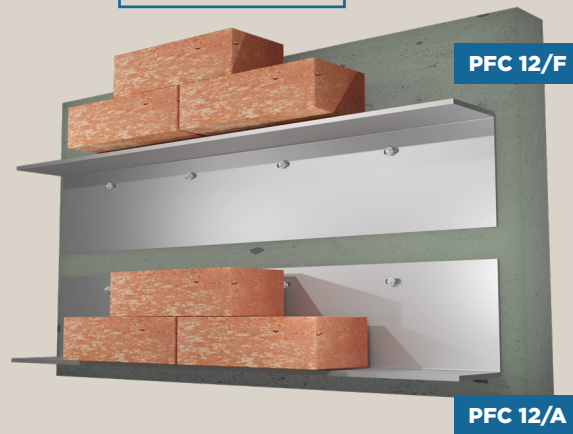
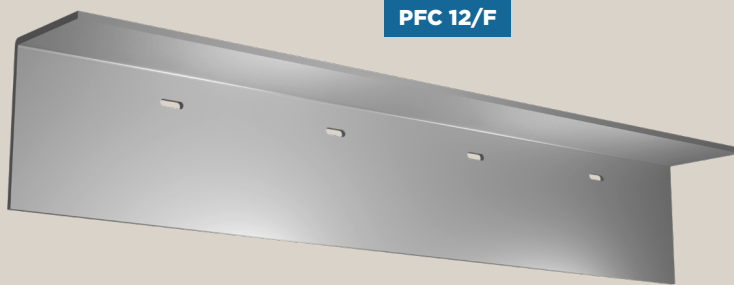
**Example:** PFC 11/F-4-160/190-1000-3,5 kN

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

**PFC 12/A AND PFC 12/F LOWER AND UPPER SUPPORT CONSOLE-PROFILE WITHOUT DIAPHRAGM**



**DIMENSION VIEW**



Type	Console protrusion k	Fixed height r	Console height h	Loading capacity G	Anchor
PFC 12/F-A	40 - 50 mm	55 - 65 mm	h = r + 15 mm	3,5 kN	M10x110
				7,0 kN	M12x140
PFC 12/F-A	60 - 70 mm	75 - 85 mm	h = r + 15 mm	3,5 kN	M10x110
				7,0 kN	M12x140
PFC 12/F-A	80 - 90 mm	95 - 105 mm	h = r + 15 mm	3,5 kN	M10x110
				7,0 kN	M12x140
PFC 12/F-A	100 - 110 mm	115 - 125 mm	h = r + 15 mm	3,5 kN	M10x110
				7,0 kN	M12x140

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element consists:** 1 pc PFC 12/A console

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

**Marking:** PFC 12/ ((A or F)- fixing point - console protrusion (k) / console height (h)- profil lenght (L)- Loading (kN)

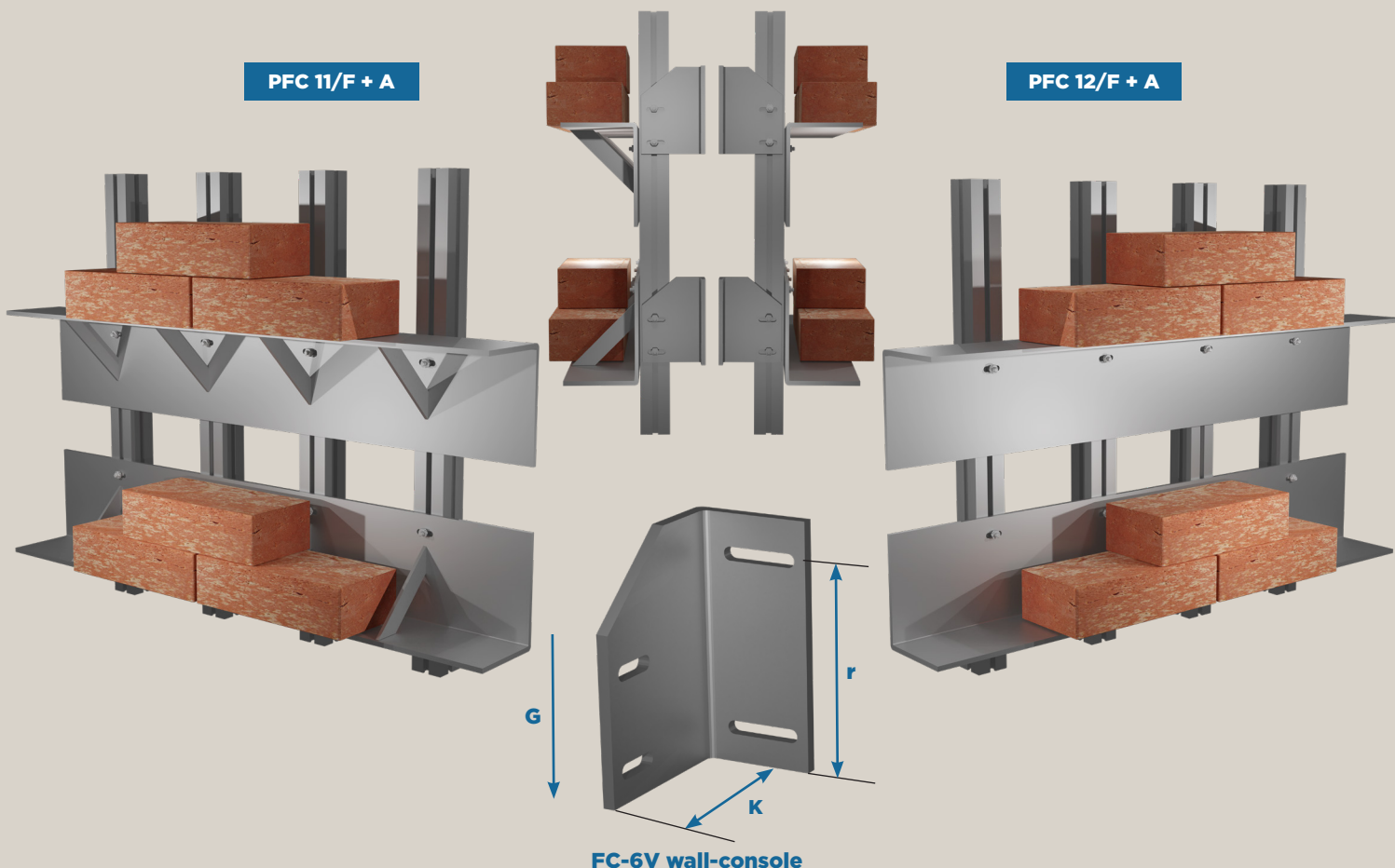
**Example:** PFC 12/A2-40/60-600-3,5 kN or PFC 12/F3-60/90-850-3,5 kN

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness



## PFC 11 OR PFC 12 PFK ALU MOUNTING PROFILE WITH LOWER AND UPPER SUPPORT CONSOLE-PROFILE WITH OR WITHOUT DIAPHRAGM + FC WALL CONSOLE

Lower and upper console-profile with PFC mounting aluprofile and FC wall-console



Type	Console protrusion k	Fixed height r	Loading capacity G	Anchor
FC-6V	40-100 mm	Based on a plan	3,5 kN	M10x110
			7,0 kN	M12x140
FC-6V	110-190 mm	Based on a plan	3,5 kN	M10x110
			7,0 kN	M12x140
FC-6V	200-250 mm	Based on a plan	3,5 kN	M10x110
			7,0 kN	M12x140
FC-6V	260-300 mm	Based on a plan	3,5 kN	M10x110
			7,0 kN	M12x140

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element:** 1 pc PFK alu mounting profile + FC wall console

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

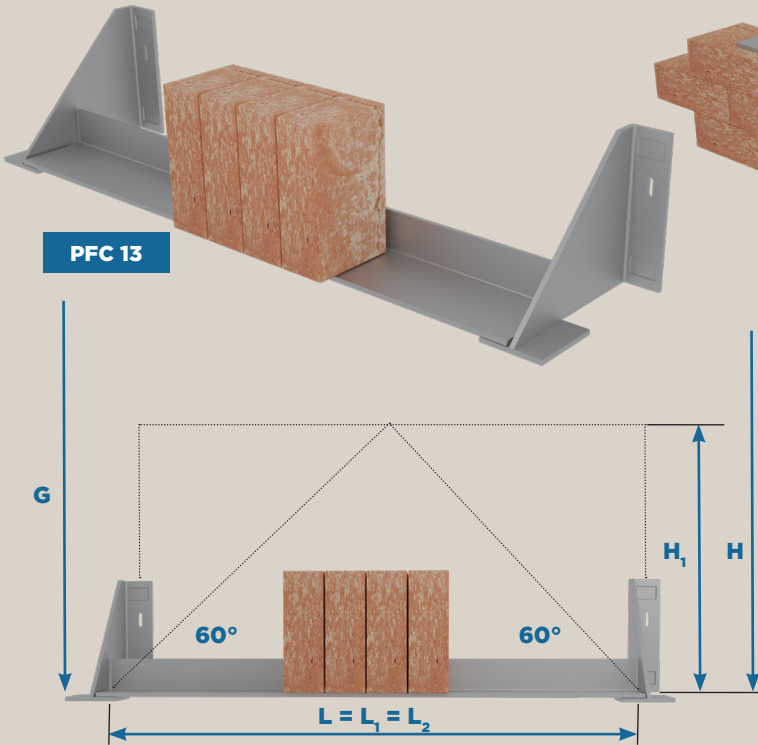
**Marking:** FC-6V/ (A or F)- fixing point - console protrusion (k) / console height (h)- profil lenght (L)- Loading (kN)

**Example:** FC-6V/2 -160/200-3,5 kN+PFK 45/45-2 000 + FC 6V/2-160/200-3,5 kN

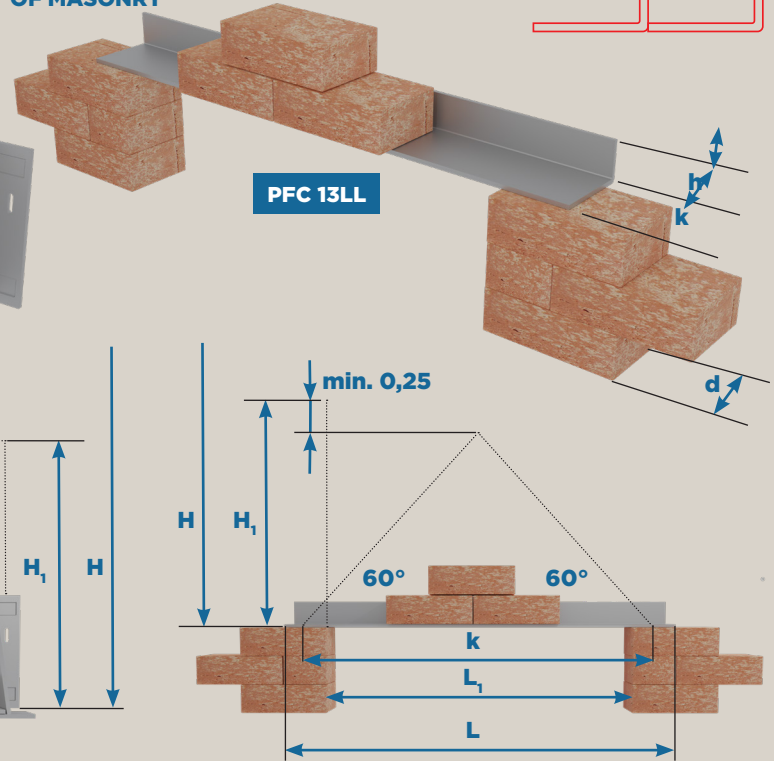
**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

## PFC 13, PFC 13/D AND PFC 13LL BRIDGING PROFILE AND WITH DIAPHRAGM AND WITH DOUBLE PROFILES

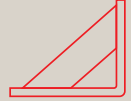
BRIDGING PROFILE BETWEEN 2 SUPPORT CONSOLES



BRIDGING PROFILE LAID ON BOTH SIDES OF MASONRY



PFC 13D



PFC 13LL



### SCALING

Bridging profile length:  $L$  (m)  
 Supported width:  $L_1 = L - (2 \times 0,10 \text{ m})$   
 Load below vaulting limit:  $G_1 = H_1 \times d \times \gamma$  (kN/m)  
 Vaulting limit:  $H_1 = \text{max. } 0,866 \times L_1$  (m)  
 Load above the vaulting limit:  $G_1 = H_1 \times d \times \gamma$  (kN/m)  
 Vaulting limit:  $H_1 = \text{min. } 0,866 \times L_1$  (m)

Bridging profile length	L (mm)	700	1000	1200	1500	1700	2000	2500	3000
Bridging height	$L_1$ (mm)	500	800	1000	1300	1500	1800	2300	2800
Bridging profile length	$H_1$ (mm)	~685	~950	~1120	~1400	~1550	~1800	~2250	~2675

### TECHNICAL DATAS

Type	Console protrusion k	Bridging height h	Bridging profile length L
PFC 13	60/90 mm	60 mm	700-3000 mm
PFC 13	60/90 mm	90 mm	700-3000 mm
PFC 13	90/100 mm	90-100 mm	700-3000 mm
PFC 13	100/120 mm	100-120 mm	700-3000 mm

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element consists:** 1 pc PFC 13 bridging profile

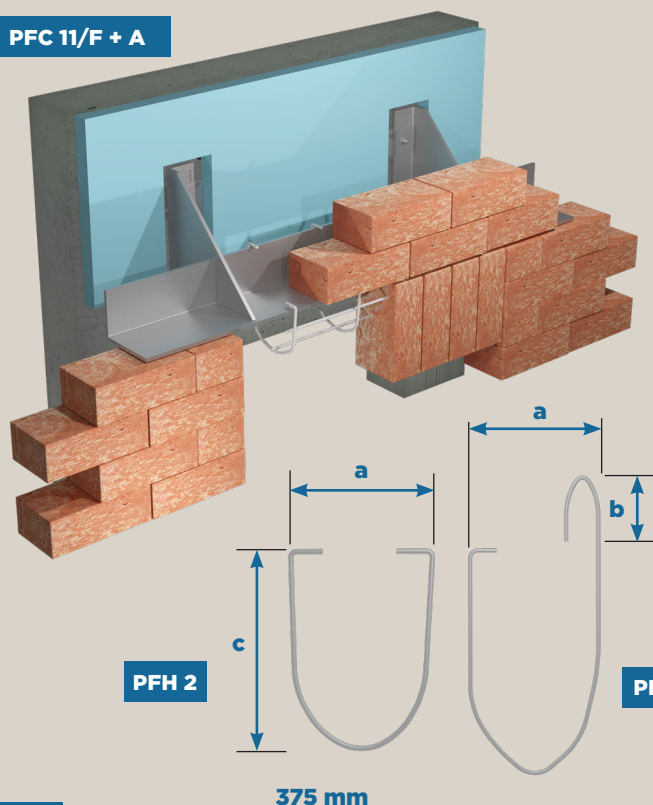
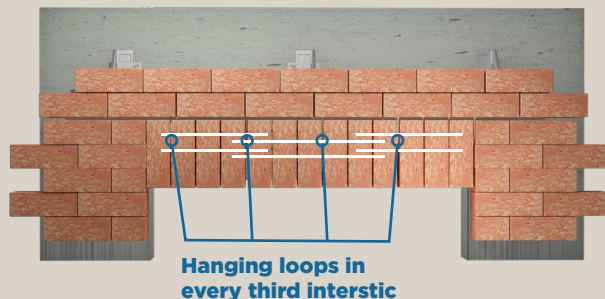
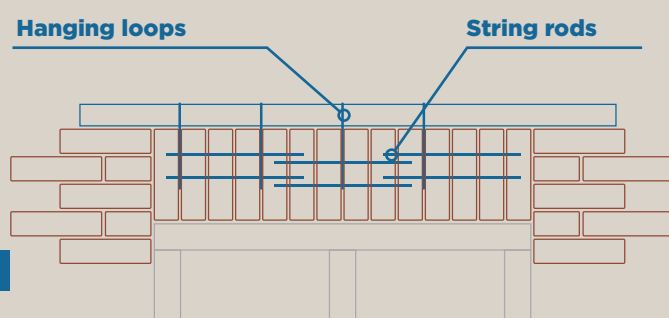
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PFC 13/ bridging profile width (k) x bridging profile height (h) -bridging length (L)

**Example:** PFC 13/90x60-2 250

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

## PFH HANGING LOOPS, PFP STRING RODS AND PFF HANGING CONSOLE

**PFC 11/F + A**

 Through-pass stick with  
min. 1 brick-width overlap

 Hanging loops in  
every third interstice


The hanging loops in every third gap in two row width overlap

**PFP**

### PFH 1 -a/b/c hanging loops

Type	a (mm)	b (mm)	c (mm)
PFH 1-100/30/180	100	30	180
PFH 1-100/45/180	100	45	180
PFH 1-100/60/180	100	60	180
PFH 1-100/90/180	100	90	180
PFH 1-120/120/180	120	120	180

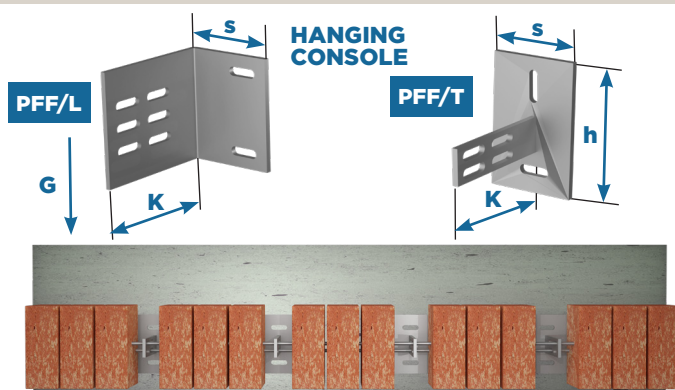
### PFH 2 -a/c hanging loops

Type	a (mm)	c (mm)
PFH 2-80/180	80	180

### PFP /l String rods

Type	l (mm)
PFP/375	375

Further dimensions according to additional sizing upon request.


**PFF hanging console (3 per gap)**

Type	Console protrusion k	Loading capacity
PFF/T+L - K/G	50-100 mm	3,5 kN
PFF/T+L - K/G	110-150 mm	3,5 kN
PFF/T+L - K/G	160-200 mm	3,5 kN
PFF/T+L - K/G	210-250 mm	3,5 kN
PFF/T+L - K/G	260-300 mm	3,5 kN

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element:** 1 pc PFH hanging loops or PFF hanging console

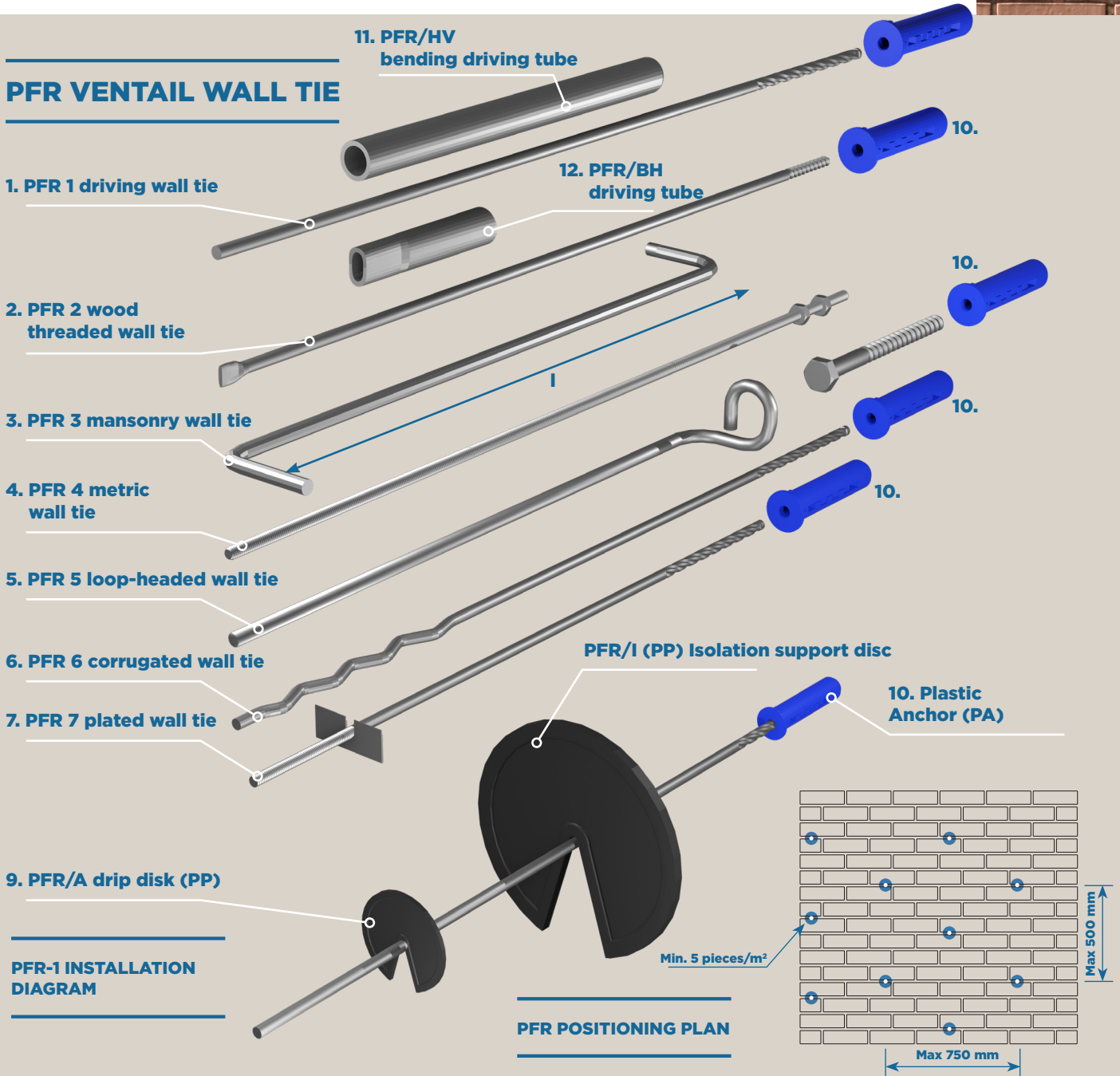
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PFH 1-protrusion (a) / height (b) / hanging(c) or PFF-protrusion (k)/Loading (kN)

**Example:** PFH 1-90/60/180 or PFF-180/3,5 kN

**Scaling:** L profile size of hanging console protrusion

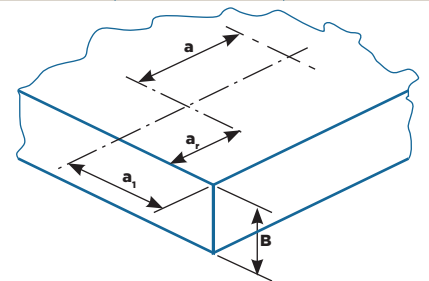
**PFR VENTAIL WALL TIE**



PFR-1 INSTALLATION DIAGRAM

**Installation data pieces/sqm**

Protrusion size	Concrete C20/25	Hollow brick	Solid brick	Aerated concrete P2
130-250	5	7	5	7
260-350	6	8	6	8
350<	7	9	7	9

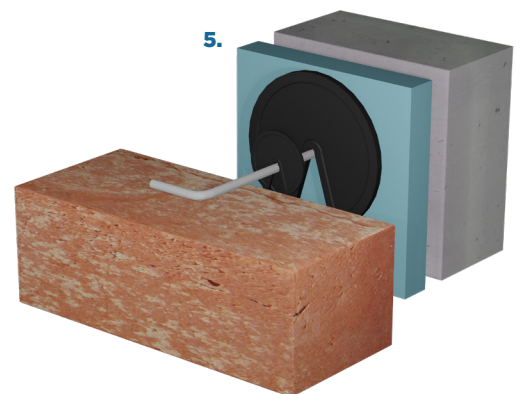
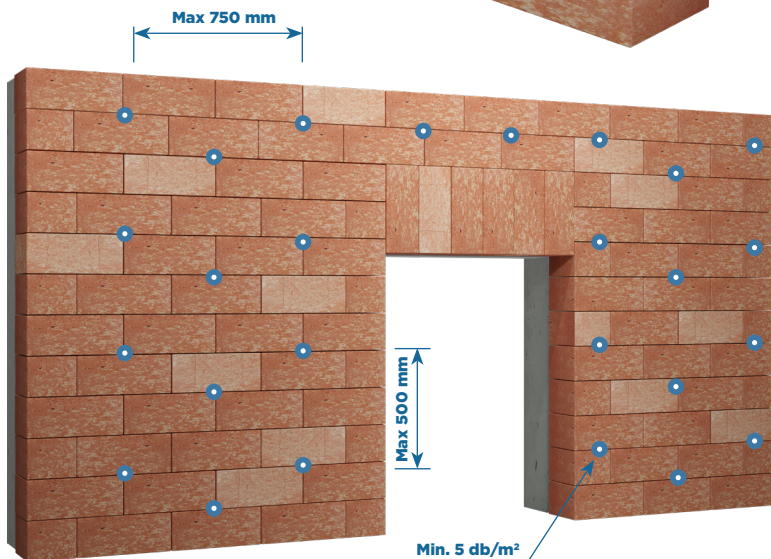
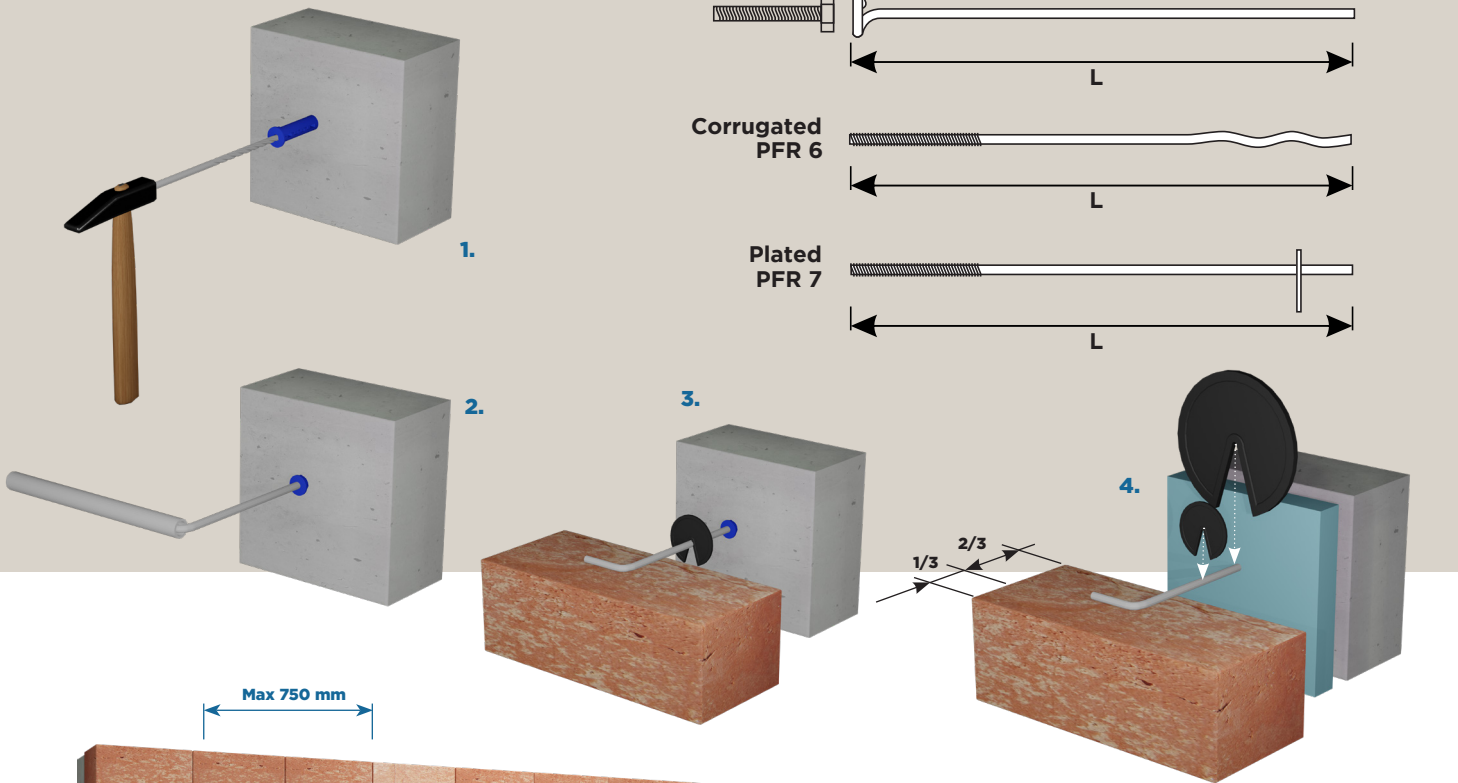
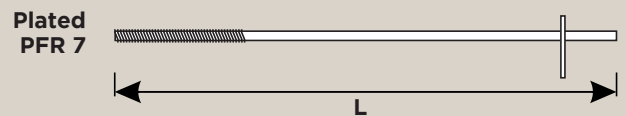
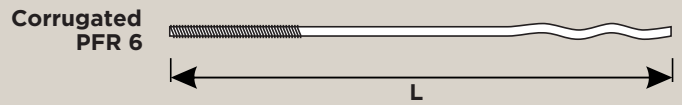
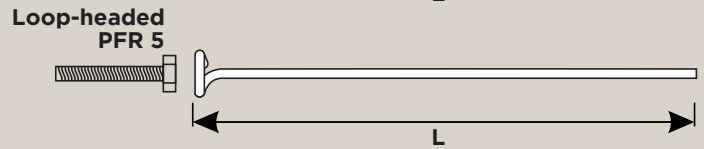
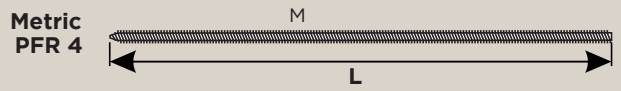
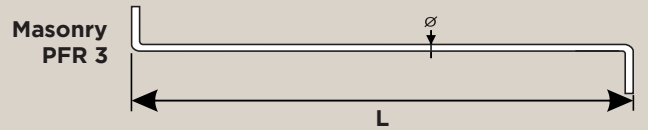
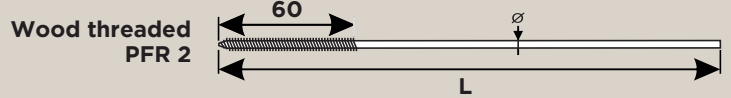
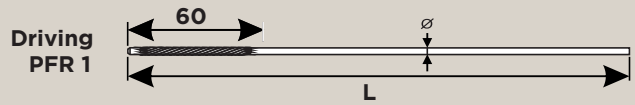
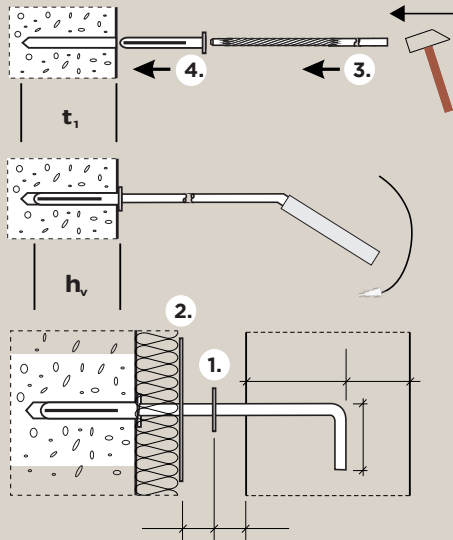


Type Tip/dxl	Total length l (mm)	Hole depth l1 (mm)	Hole diameter d (mm)	Axis distance a (mm)	Edge distance ar (mm)	Wall thickness B (mm)
1/4x130-400	130-400 mm	60-90	8	100	250	100
2/4x130-400	130-400 mm	60-90	8	100	250	100
3/4x130-400	130-400 mm	-	-	-	-	120/100
4/4x130-400	130-400 mm	-	M4-5-6	100	250	-
5/4x130-400	130-400 mm	60-90	8	100	250	200
6/4x130-400	130-400 mm	60-90	8	100	250	100
7/4x130-400	130-400 mm	60-90	8	100	250	100

Further dimensions according to additional sizing upon request.

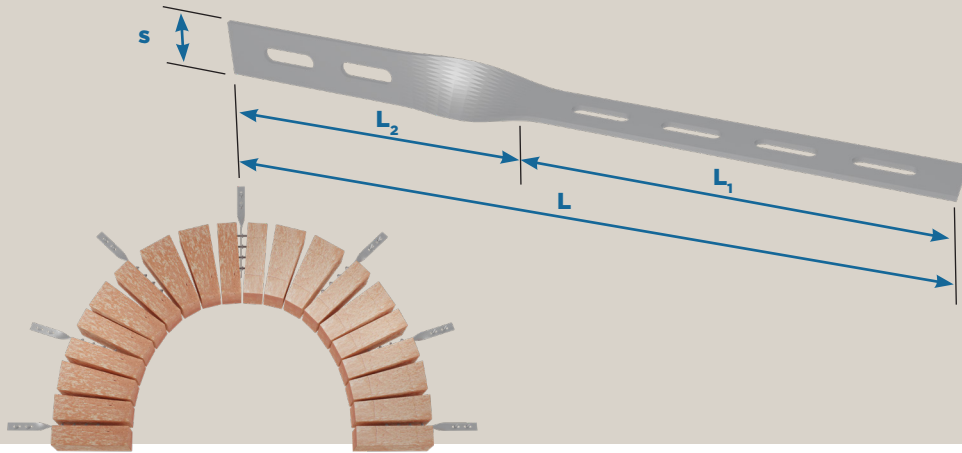
# PFR INSTALLATION GUIDE

## PFR 1

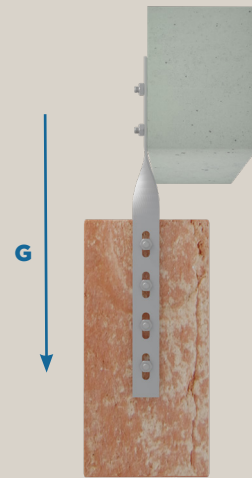


## PFI VAULT HANGER

PFI



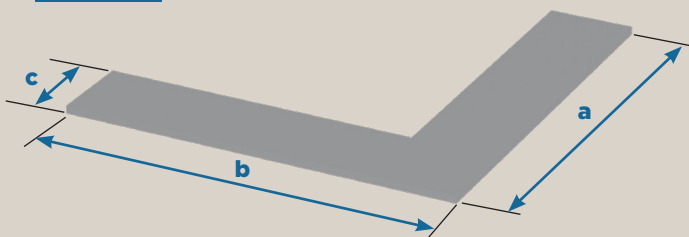
SIDE VIEW



Type	Hanging down $L_1$ (mm)	Fixed-height $L_2$ (mm)	Cantilever - width $s$ (mm)	Full -length $L$ (mm)	Loading
PFI 120/100/30-220	120 mm	100 mm	30 mm	220 mm	3,5 kN
PFI 150/100/30-250	150 mm	100 mm	30 mm	250 mm	3,5 kN
PFI 120/180/30-300	120 mm	180 mm	30 mm	300 mm	3,5 kN
PFI 150/180/30-330	150 mm	180 mm	30 mm	330 mm	3,5 kN

## PFL CORNER PLATE

PFL



Type	a (mm)	b (mm)	c (mm)	Loading capacity
PFL 150x150x40	150 mm	150 mm	40 mm	1,5 kN
PFL 200x200x60	200 mm	200 mm	60 mm	3,5 kN
PFL 250x250x80	250 mm	250 mm	80 mm	7,0 kN
PFL 300x300x100	300 mm	300 mm	100 mm	10,5 kN

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element:** 1 pc PFI vault hanger or PFL corner plate

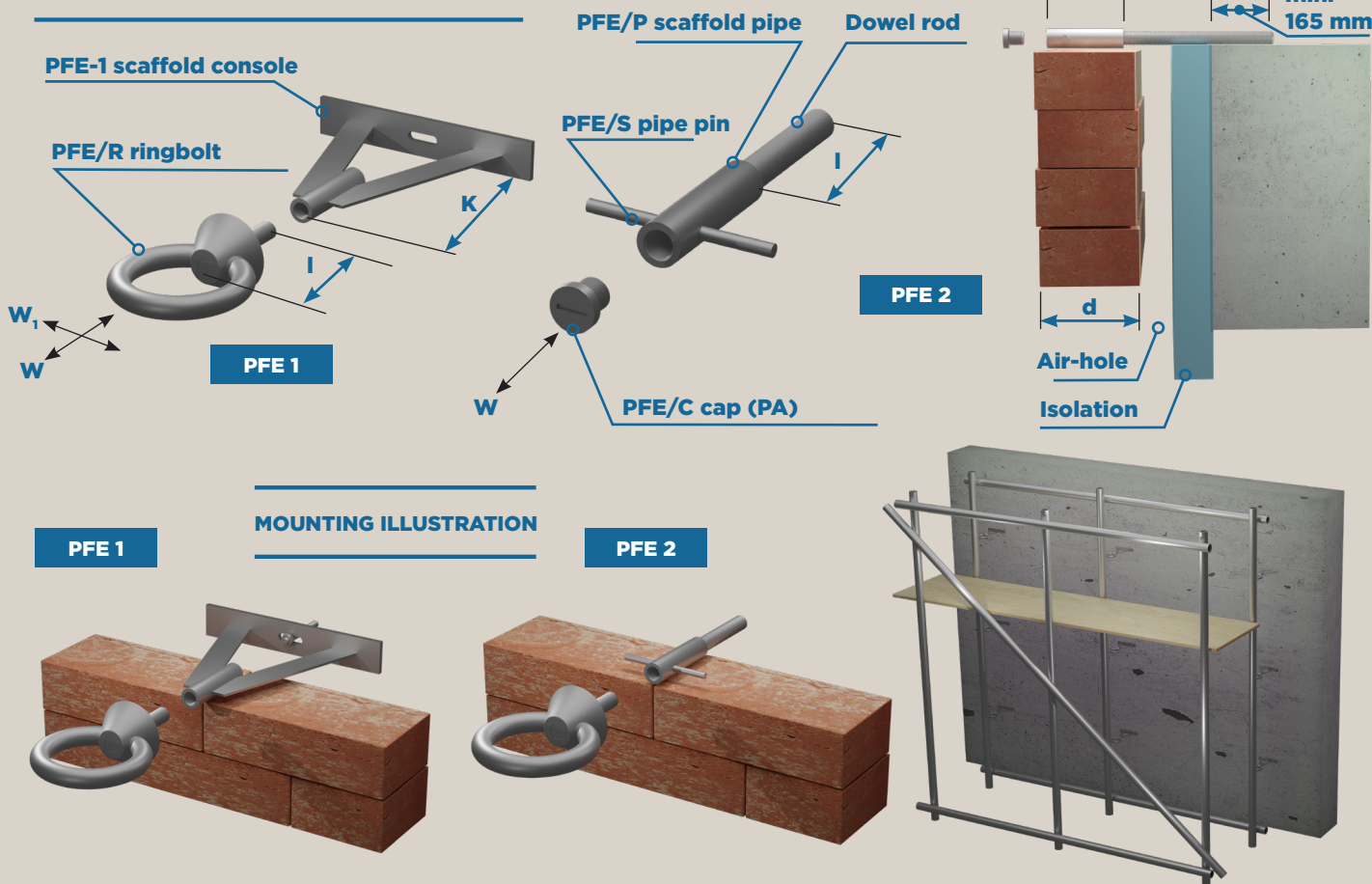
**Fixing:** The used anchors are according to the producer's technical datas.

**Marking:** PFI  $L_1/L_2/s$  - L or PFL a x b x c - kN

**Example:** PFI 120 / 100 / 30 - 220 or PFL 150 x150 x 40

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

## PFE SCAFFORD ANCHORING



Type	Console protrusion k	$W_1$ (kN)	W (kN)
PFE-1 scaffold console	300-400 mm	2,0 kN	5,5 kN

Type	Scaffold pipe protrusion k	Dowel rod l (mm)	W (kN)
PFE-2 scaffold pipe	300-400 mm	260-360 mm	5,5 kN

Type	Thread	Dowel rod l (mm)	Size
PFE/R ringbolt	M12	60-100 mm	M12x60-100

Type	Thread
PFE/C cap	M12

Type	Thread
PFE/S pipe pin	Ø4-5x100

Type	Size	Internal thread
PFE/P scaffold pipe	Ø14x65	M12x30

Type	Thread	Lenght (mm)
l/M12 x l dowel rod	M12	240-550

Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element consists:** 1 pc PFE-1 scaffold console + PFE/R ringbolt + dowel rod or PFE-2 scaffold pipe + PFE/R ringbolt + dowel rod

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

**Marking:** PFE-1 /k + PFE-2/L

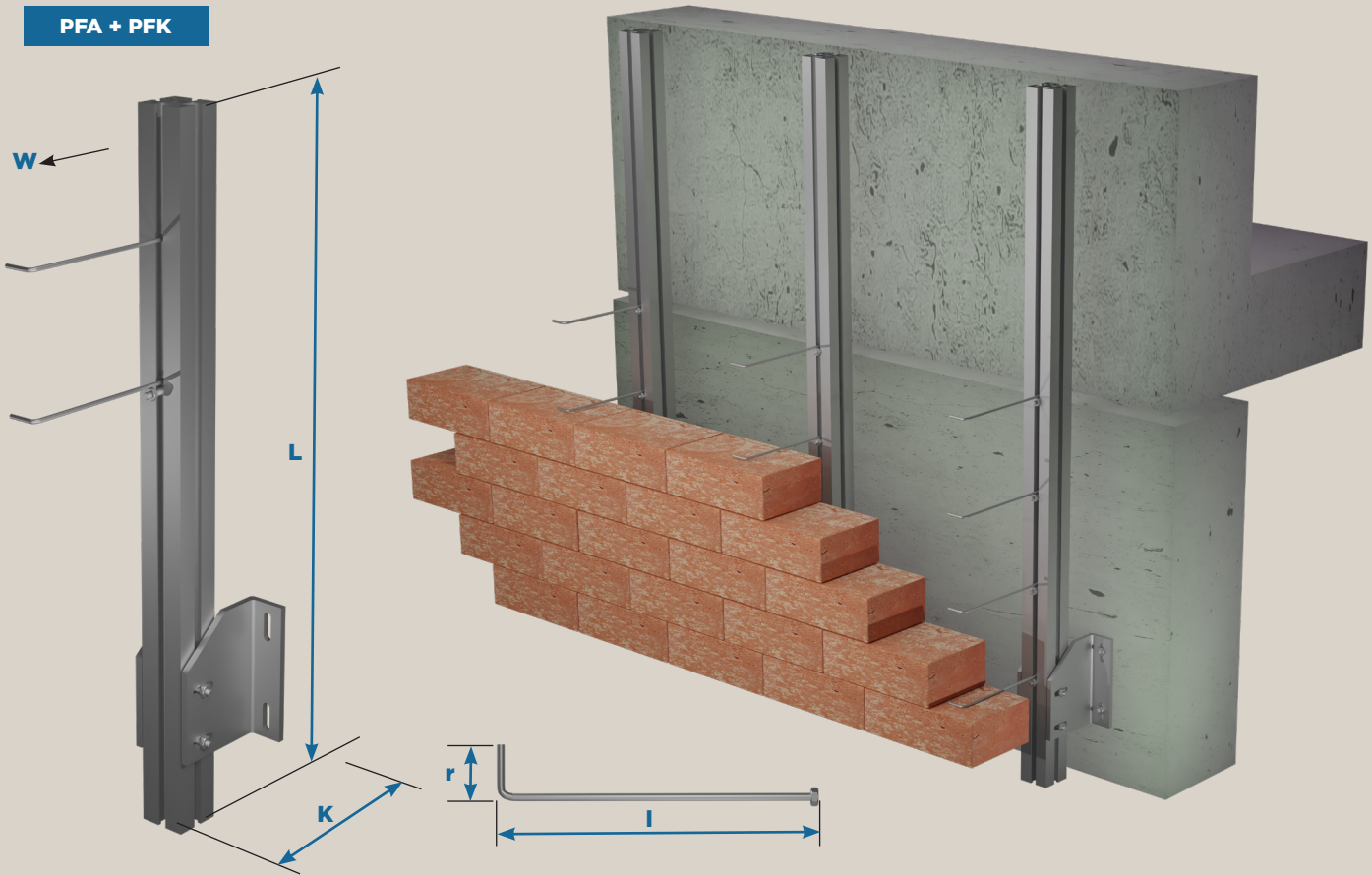
**Example:** PFE-1/360 or PFE-2/500

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

## PFA ATTIC FIXING WITH CONSOLE AND TIE



PFA + PFK

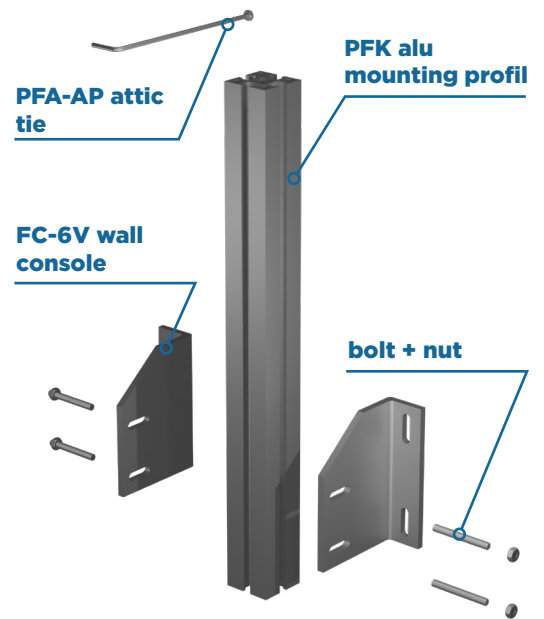


### PFA-FC-6V-wall console

Type	Console protrusion k (mm)	Alu profil lenght (L)	Extraction value (kN)
FC-6V/PFR 160/500	160 mm	500 mm	2,5 kN
FC-6V/PFR 160/750	160 mm	750 mm	2,5 kN
FC-6V/PFR 160/1000	160 mm	1000 mm	2,5 kN
FC-6V/PFR 200/500	200 mm	500 mm	2,5 kN
FC-6V/PFR 200/750	200 mm	750 mm	2,5 kN
FC-6V/PFR 200/1000	200 mm	1000 mm	2,5 kN

### PFA-AP attic tie

Type	Diametric	Bending (r)	Lenght (l)
AP 100-200	4-5-6	20-40	100-200



Further dimensions according to additional sizing upon request.

**Basic materials:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

**Complete fixing element consists:** 1 pc PFA attic console + PFK aluprofil + PFA-AP attic tie

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

**Marking:** PFA console protrusion k / profile length L + AP tie length l

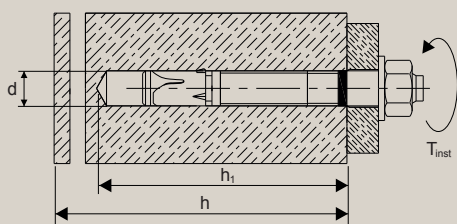
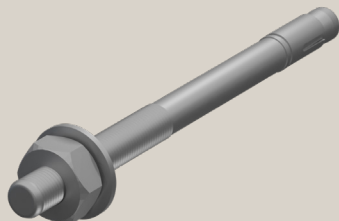
**Example:** PFA 160/750+200

**Scaling:** Stratification = isolation + ventail or wall-difference + d = brick-thickness

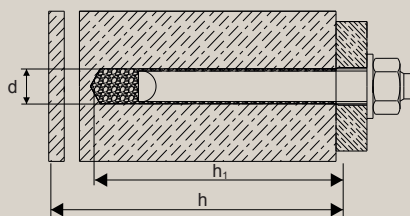
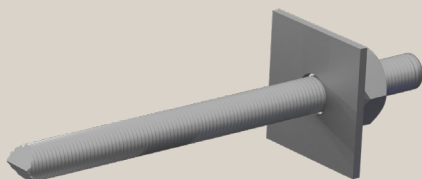


## ANCHOR FIXING

### EXPANSION ANCHOR



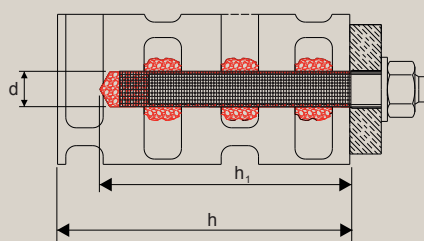
### 1/2" DOWEL ROD + NUT



### 1/2" DOWEL ROD + NUT + SIEVE TUBE



sieve tube



### EXPANSION ANCHOR solid masonry

Hilti-ETA 11/0374 + RAWL-ETA 17/0183

Type: Hilti + RAWL	HSA-R2	R-XPT	HSA-R2	R-XPT
Anchor size	M10x83	M10x95	M12x115	M12x120
Tensile kN	4,8	4,3	8,5	8
Shearing kN	8,1	8,2	11,9	13,3
Drill bit d (mm)	10	10	12	12
Base material thickness h (mm)	100	100	140	136
Drill hole depthness $h_1$ (mm)	70	80	95	90
Minimum spacing $S_{min}$ (mm)	55	55	75	75
Minimum edge distance $C_{min}$ (mm)	65	50	90	65
Torque moment $T_{inst}$ (mm)	30	30	50	50

### INJECTABLE USE concrete masonry

Hilti ETA-17/0005 + R-KEM ETA 21/0243

Type: Hilti + RAWL	HIT-1	R-KEM	HIT-1	R-KEM	HIT-1	R-KEM
Anchor size	M10x110	M10x110	M12x140	M12x140	M16x165	M16x165
Tensile kN	8,6	8,3	19,8	11,5	24,0	16,6
Shearing kN	13,8	12,6	12,0	18,3	22,3	34,0
Drill bit d (mm)	12	12	14	14	18	18
Base material thickness h (mm)	130	130	160	160	185	185
Drill hole depthness $h_1$ (mm)	100	100	155	155	170	170
Minimum spacing $S_{min}$	50	50	60	50	80	54
Minimum edge distance $C_{min}$	50	50	60	50	80	54
Torque moment $T_{inst}$	20	20	40	40	80	80

### INJECTABLE USE

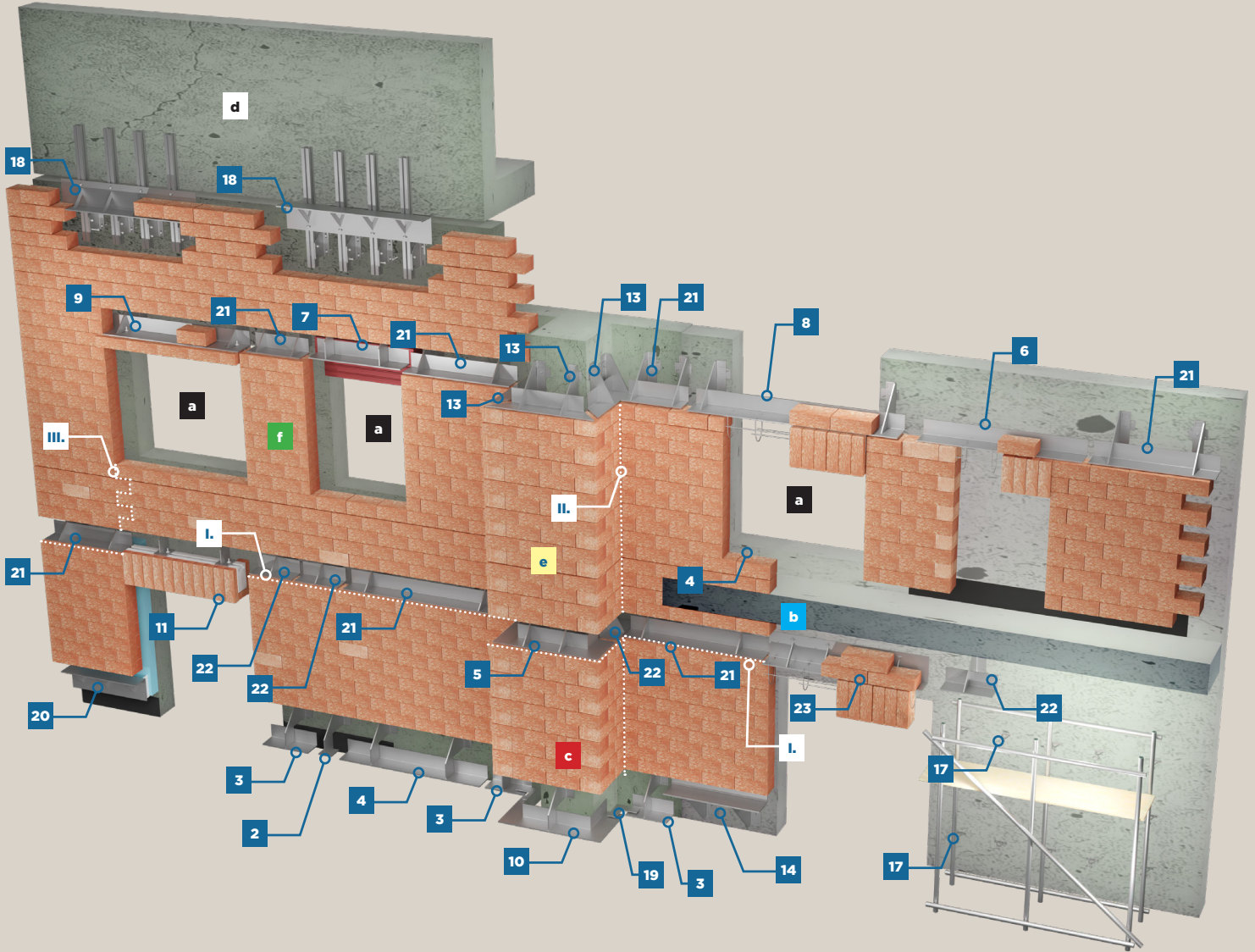
hollow or perforated masonry Hilti ETA-17/0005 + R-KEM ETA 21/0243

Type: Hilti + RAWL	HIT-1	R-KEM	HIT-1	R-KEM
Anchor size	M10x165	M10x165	M12x165	M12x165
Tensile kN	0,8	0,7	1,0	1,0
Shearing kN	0,8	0,7	1,0	1,0
Drill bit d (mm)	16	16	16	16
Base material thickness h (mm)	160	160	160	160
Drill hole depthness $h_1$ (mm)	135	135	135	135
Minimum spacing $S_{min}$ (mm)	80	50	90	50
Minimum edge distance $C_{min}$ (mm)	50	50	50	50
Torque moment $T_{inst}$ (mm)	4	4	4	6
Sieve tube size d x l (mm)	16x85	15x135	16x85	15x135

Further dimensions according to additional sizing upon request.

**Basic material:** According to claims 308 (1.4301) 316 Ti (1.4571) quality stainless steel

FACADE PATTERN



POSITIONS

- 1. PFR tie 28. side 1. picture
- 2. PFC 61/1V 28. side 2. picture
- 3. PFC 63/1V 28. side 3. picture
- 4. PFC 65/2V 28. side 4. picture
  
- 5. PFC 68/2V/J 29. side 5. picture
- 6. PFC 13 29. side 6. picture
- 7. PFC 65/2V 29. side 7. picture
- 8. PFC 65/2 29. side 8. picture
  
- 9. PFC 66/2V 30. side 9. picture
- 10. PFC 64/1V 30. side 10. picture
- 11. PFC 62/1V 30. side 11. picture
- 12. PFC 68/2J 30. side 12. picture

- 13. PFC 67/2-BJ45 31. side 13. picture
- 14. PFC 60/2 31. side 14. picture
- 15. PFC 68/2-JB 31. side 15. picture
- 16. PFC 69/2 31. side 16. picture
  
- 17. PFE scaffold 24. side
- 18. PFA attic fixing 25. side
- 19. PFL corner plate 22. side
- 20. PFC 11/F console-profile 15. side
  
- 21. PFC 65/2 8. side left upper picture
- 22. PFC 63/1 6. side left upper picture
- 23. PFC 11/AK 14. side

Dilatation interstice:

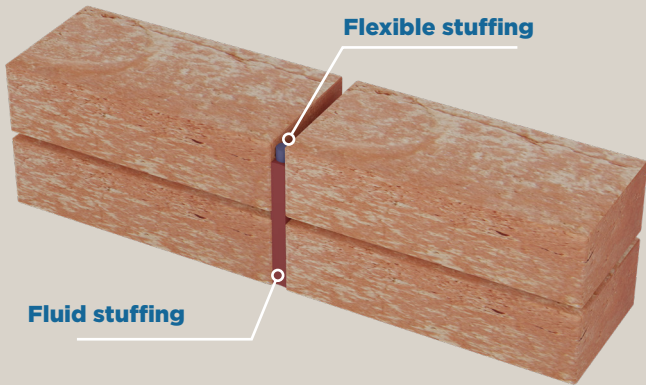
- I. Horizontal
- II. Vertical
- III. Serrated

Building elements:

- a. Openings
- b. Slab
- c. Corner
- d. Attic
- e. Pillar
- f. Wall disc

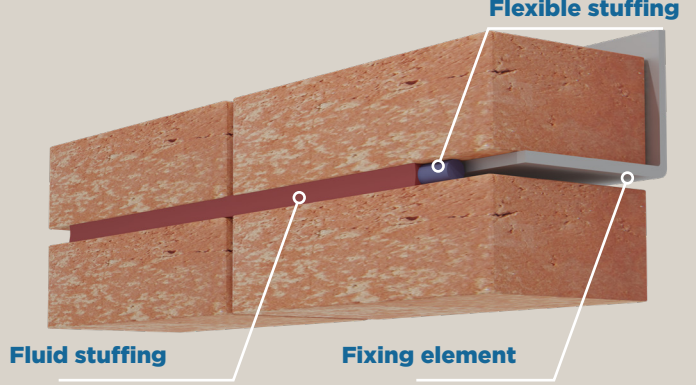
## DILATATION GAP

### SHAPING THE GAP

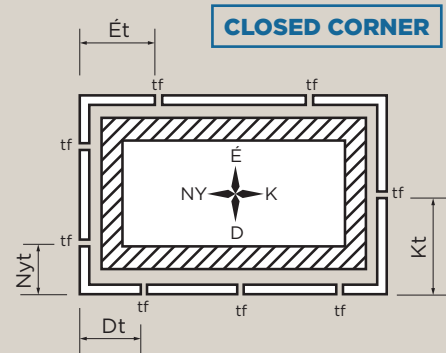
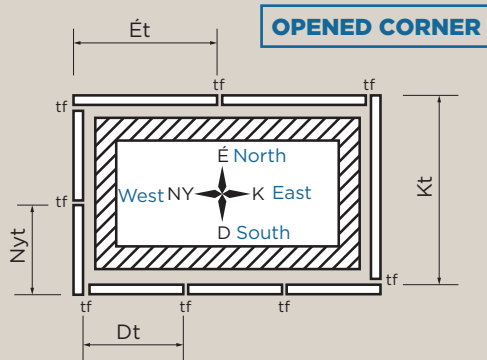


### VERTICAL DIRECTION

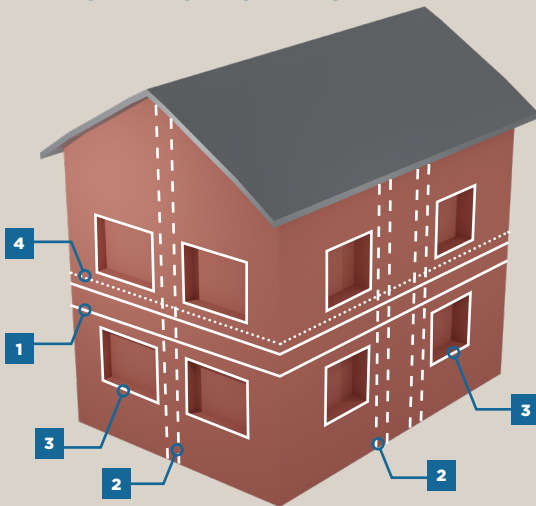
### HORIZONTAL DIRECTION



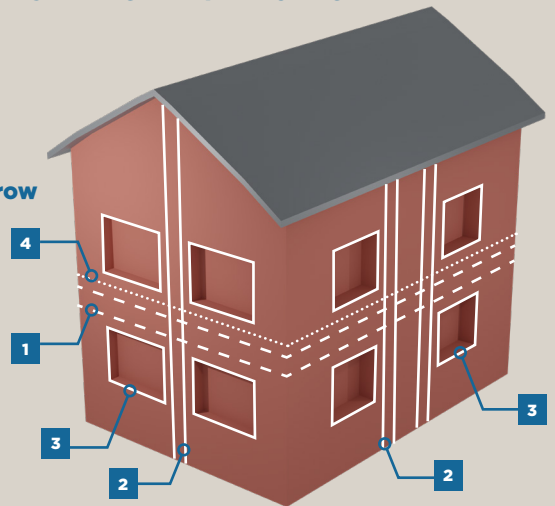
### POSITIONS OF GAP BY FOUR CARDINAL POINTS



### SHAPING THE HORIZONTAL GAP



### SHAPING THE VERTICAL GAP



1. Horizontal gap
2. Vertical gap
3. Expanding field
4. Fixing element row

### DISTANCE OF THE INTERSTICES SHAPED BY CARDINAL POINTS

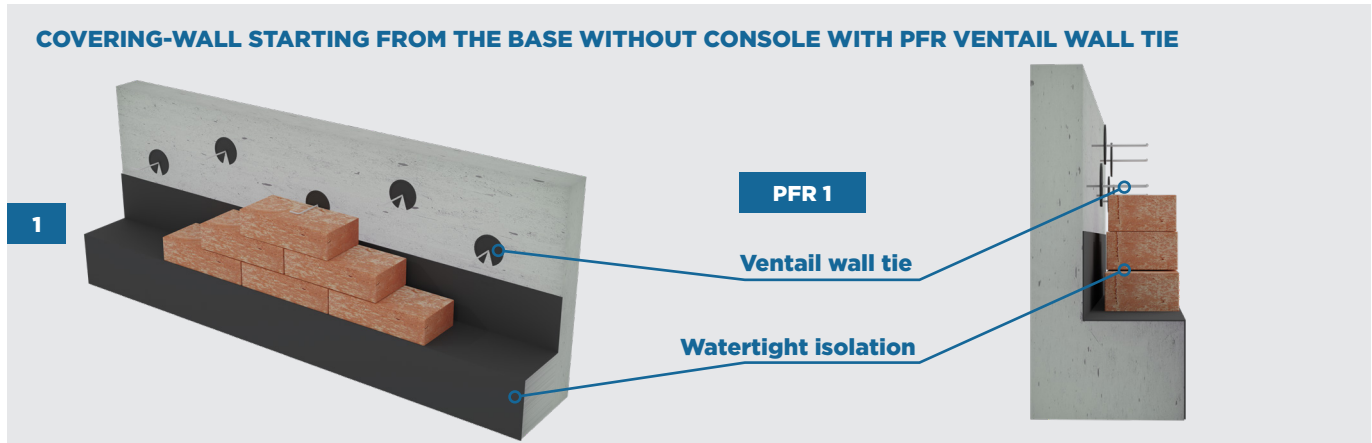
The datas concern to the general rules of the thermal dilatation.

Type	Shaping of the corner	Ét (m)		Dt (m)		Nyt (m)		Kt (m)	
		With airspace	Without airspace	With airspace	Without air-space	With airspace	Without air-space	With airspace	Without air-space
Covering brick	Opened	8	8	6	5	5	4	7	6
	Closed	4	3	3	3	3	2	4	3
Lime-sand brick	Opened	12	8	7	5	6	5	10	7
	Closed	6	5	4	4	4	4	5	5
Klinker brick	Opened	14	10	9	6	8	7	12	9
	Closed	7	5	4	3	4	3	6	5



## USING PATTERNS

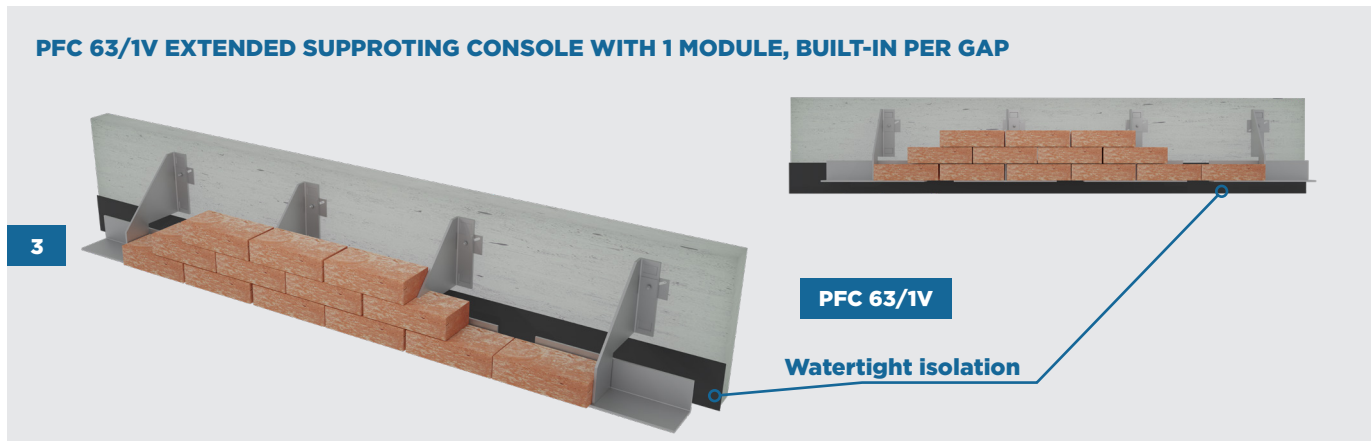
**COVERING-WALL STARTING FROM THE BASE WITHOUT CONSOLE WITH PFR VENTAIL WALL TIE**



**PFC 61/1V EXTENDED SUPPROTING CONSOLE WITH 1 MODULE, BUILT-IN PER GAP**



**PFC 63/1V EXTENDED SUPPROTING CONSOLE WITH 1 MODULE, BUILT-IN PER GAP**

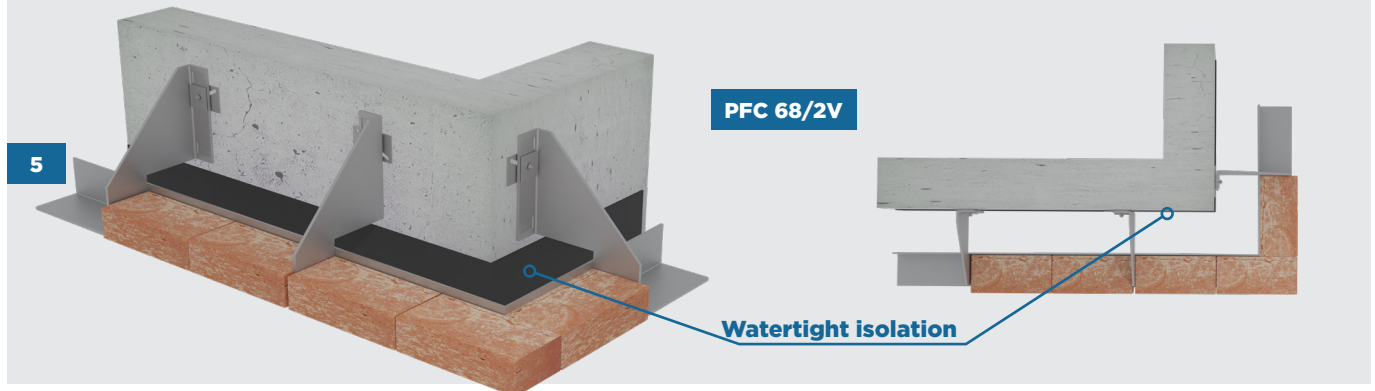


**PFC 65/2V EXTENDED SUPPROTING CONSOLE WITH 2 MODULES**



## USING PATTERNS

**PFC 68/2V/J EXTENDED CORNER PLATED HANGING CONSOLE WITH 2 MODULES - CLOSED CORNER**



**PFC 13 BRIDGING PROFILE WITH HANGING LOOPS + STRING RODS**



**PFC 65/2V EXTENDED SUPPROTING CONSOLE WITH 2 MODULES FRONT OF THE SHUTTER CASE - VISIBLE**



**PFC 65/2 SUPPROT CONSOLE WITH 2 MODULES AND HANGING LOOPS IN SUSPENDED BRICKS - ROW LOOPS IN SUSPENDED BRICKS-ROW**

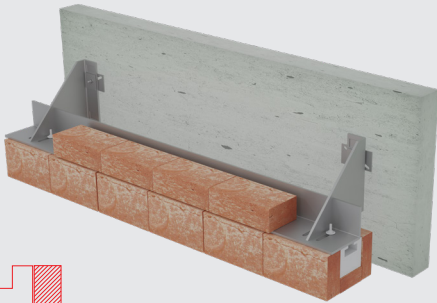




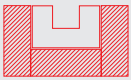
## USING PATTERNS

**PFC 66/2V HANGING PROFILE CONSOLE WITH 2 MODULES AND PREPRODUCED HORIZONTAL CONCRETE BRIDGING**

9

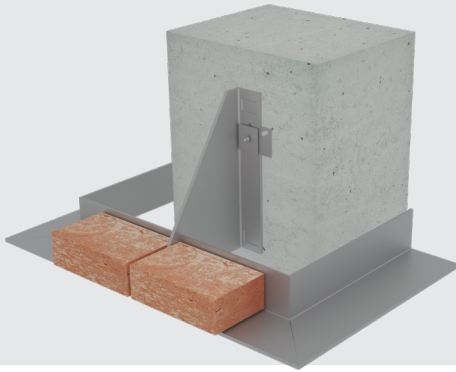


**PFC 66/2V**



**PFC 64/1 PILLAR SUPPORT CONSOLE WITH 1 MODULE - CLOSING THE FACADE WALL-FACE**

10

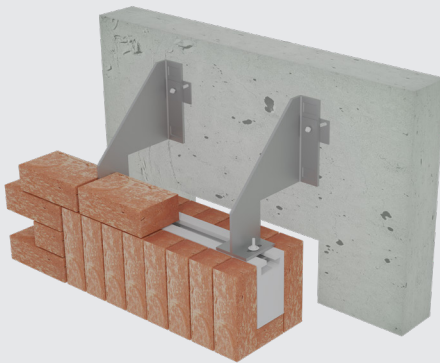


**PFC 64/1**

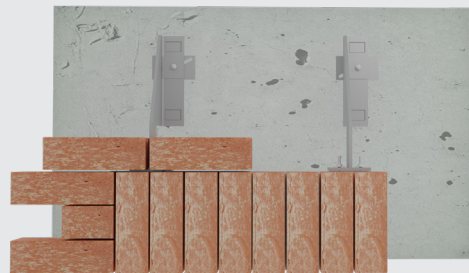


**PFC 62/1V HANGING CONSOLE WITH 1 MODULE WITH PREPRODUCED VERTICAL CONCRETE BRIDGING**

11



**PFC 62/1V**



**PFC 68/2J CORNER PLATED CONSOLE WITH 2 MODULE - CORNER WITH OPENED GAP**

12



**PFC 68/2-J**



## USING PATTERNS

**PFC 67/2-J45 BEVEL CORNER SUPPORTING CONSOLE- CORNER WITH CLOSED GAP**

13

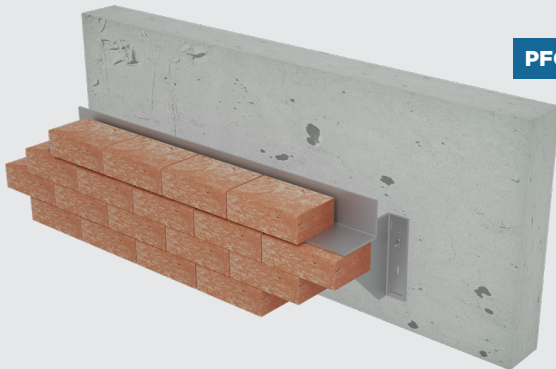


PFC 67/2-J45



**PFC 60/2 UPPER SUPPORTING CONSOLE WITH 2 MODULES**

14

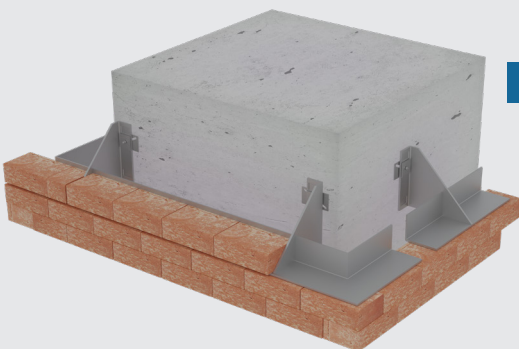


PFC 60/2



**PFC 68/2-JB 2 CORNER PLATED CONSOLE WITH 2 MODULES - CORNER AROUND THE PILLAR**

15

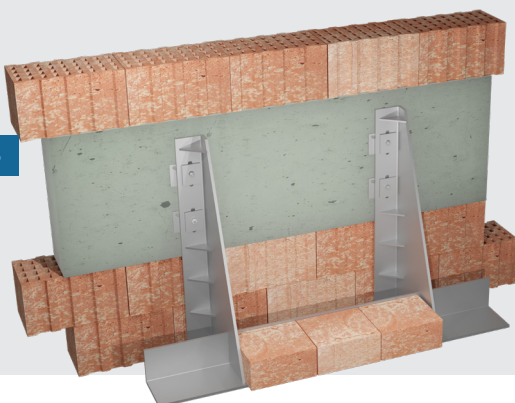


PFC 68/2-JB



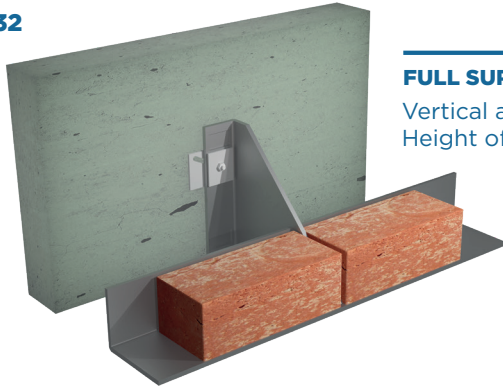
**PFC 69/2 SLAP SUPPORTING CONSOLE WITH 2 MODULES**

16



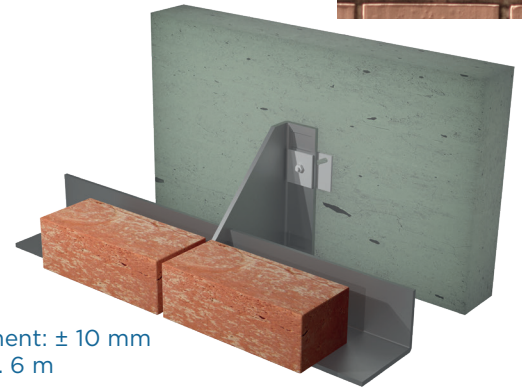
PFC 69/2





### FULL SUPPORT

Vertical adjustment of console:  $\pm 30$  mm  
Height of masonry: max. 12 m



### AT LEAST 2/3 SUPPORT

Horizontal brick adjustment:  $\pm 10$  mm  
Height of masonry: max. 6 m

01. After checking the building's dimensions, line up the openings, corner shapings and the locations of vertical dilatation gaps, and align the course-joint flagstone rows for vertical dilatation gaps according to brick size.
02. Cut an adequate size opening in the insulation material for the console elements; put it aside and then reinsert the insulation material following the mounting of the element.
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. Push the rear height adjustment shimming plate with tilted oval bore-hole onto the mounted anchor. Insert the console with the square washer and fix it with a nut. Fasten it with a torque wrench according to the specified value after final adjustment.
05. Set the console holding the masonry roughly in a vertical plane then perform fine adjustment with the rear height adjustment plate by  $\pm 30$ mm. Check whether the corner plate of the console rests on the wall-face properly (at least 25 mm from the edge).
06. The console can be adjusted by  $\pm 10$  mm over its support in a horizontal direction, but support for the brick must be ensured by at least 2/3 of its size.
07. The L-profiles holding the covering resting on the holder consoles must be supported until the masonry consolidates.
08. The implementation of horizontal dilatation gaps shall take place in the lower plane of the support console row. During installation, you must keep in mind that horizontal supporting may not hinder vertical dilatation.
09. Heat insulation shall be mounted with heat insulation mat discs via ventail tie on the wall-face; remove the condensed vapour from the covering or heat insulation with a drip disk to prevent soaking.
10. Install at least 5 ventail tie per square meter, though this will also depend on the wall structure and the size of the protrusion.
11. For a pleasant appearance, use rated continuous bridging pieces over the openings in the case of visible support.
12. In the vertical brick rows above openings, the suspension loop fixing at every third course-joint with two rows of horizontal rods. Support with shuttering is required until consolidation of the vaultage.
13. The installation of scaffold anchoring to the background masonry replaces the ring bolts from the scaffolding in the brick covering. The installation of scaffold anchoring must be documented in order to enable the implementation of scaffolding in the future.
14. The attic parapet profil is fixed vertically every 75 cm and fixed into the covering horizontally with anchoring plates in every three rows



## LOADING AND SIZING CONCERNING TO FRAME

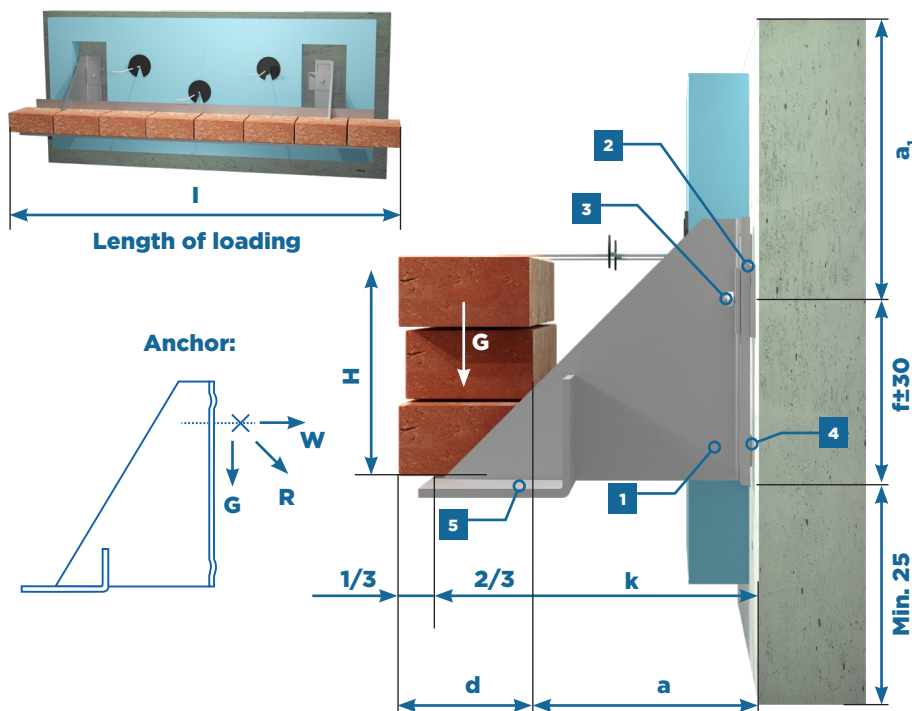
### LOAD HAVING AN INFLUENCE ON BRICK-COVERING

#### SPECIFIC GRAVITY OF BRICK

Type	kN/m <sup>3</sup>
Lime-sand brick	20,0
Hollow brick	17,0
Solid clinker	25,0
Small hollow clinker	20,0
Large hollow clinker	18,0
Mortar-frogged clinker	23,0

#### LOADING LEVELS ACCORDING TO COHERENT DATAS

Levels	I.	II.	III.
Console	3,5 kN	7,0 kN	10,5 kN
Anchor	M10x110	M12x140	M16x165



#### CALCULATING THE LOAD ON A CONSOLE

**Spec.gravity of brick** [kN/m<sup>3</sup>]

**Thickness of brick** [m] d

**Air space** [m] a

**Hight of walling** [m] H

**Thickness of interstice** [m] f

**Length of loading** [m] l

**Fixing hight** [m] r

**Protrusion of console** [m] k

**Edge distance** [m] a<sub>r</sub>

**Loading of walling** [kN] G

**Resultant force** [kN] R

**Pull-out force** [kN] W

#### NAMING THE PARTS OF THE CONSOLE

- 1 Module
- 2 Square washer-plate for hight setting
- 3 Anchor with washer and nutl
- 4 Corner-plate
- 5 Supporting

#### LOAD BEARING CONSOLE ELEMENT:

$$G \text{ [kN]} = \gamma \text{ d [m]} \times H \text{ [m]} \times l \text{ [m]}$$

#### LOAD BEARING FIXING ELEMENT:

For straight pull-out:

$$W \text{ [kn]} = (a \text{ [m]} + d/2 \text{ [m]}) \times G \text{ [kN]} / (r-0,03 \text{ [m]}) - f \text{ [m]}$$

For angle pull-out: loading

$$R \text{ [kN]} = \sqrt{W^2 + G^2}$$

#### CALCULATION EXAMPLE:

##### DATAS

Spec.gravity of brick = 20,0 kN/m<sup>3</sup>

Thickness of brick d = 0,12 m

Air space a = 0,10 m

Hight if walling H = 2,80 m

Thickness of interstice f = 0,01 m

Length of loading l = 1,04 m

Fixing hight r = 0,19 m

Number of modules n = 2 db

##### CALCULATION:

$$G = 20 \times 0,12 \times 2,80 \times 1,04 / 2 = 3,49 < 3,5 \text{ kN}$$

Type PFC 65/2 - 190 / 960 - 3,5

##### CHOOSING OF FIXING ELEMENT

$$W = (0,10 + 0,12/2) \times 3,49 / (0,19 - 0,03) - 0,01 = \mathbf{3,72 \text{ kN}} < 8,3 \text{ kN}$$

$$R = \sqrt{3,72^2 + 3,49^2} = \mathbf{5,1 \text{ kN}} < 12,6 \text{ kN}$$

Type: M10 injectable dowel rod

Per fixing points: 3,5-7,0-10,5 kN

Security factor: 3x f + EC-8 = 4 f

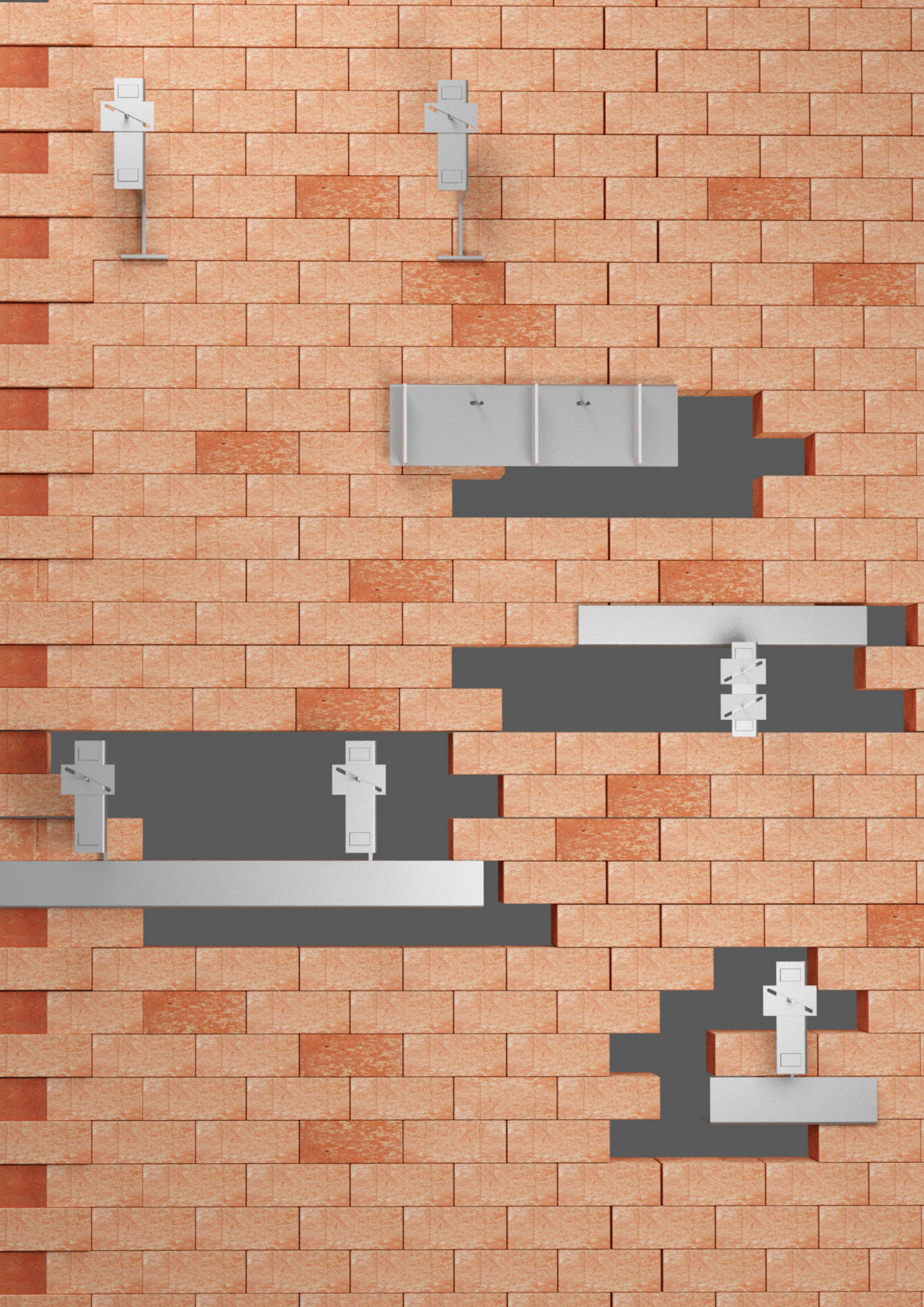


## 34 EU standards:

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	EN 573	<b>Aluminium structures</b> Aluminium and aluminium alloys
DIN EN 1045	<b>Load bearing standards</b> 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 aerated, layered brick façade is made with openly ventilated 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 façade cladding are its shading effect and its ventilation gap efficiency. The ability of the air vent to drain off moisture depends on the height of the air column. In order to equalize the vapour diffusion pressure, open horizontal and vertical joints are used.
4. The width of the air vent should be at least 30-40 mm. Traces of mortar should be wiped from the inner side of the brick cladding to maintain the flushing and drying effect.
5. 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.
6. A dilation gap of at least 15 mm of width should be applied where the outer layer meets the doors and windows.
7. A brick façade thinner than 90 mm is considered as covering, so the number of wall ties should be doubled. The thin structure of the masonry requires support at every floor.
8. A brick façade thicker than 90 mm is considered cladding, it requires support at least at every second floor.
9. A façade higher than 20 m should only be made of 120 mm thick brick cladding with full support.
10. In the case of the cladding of a frontispiece, support console should be applied at every 4 metres. The brick should protrude no further than 15 mm from the outer edge of the console.
11. Lower and upper air vents should be installed between the horizontal support of the brick cladding.
12. In the case of the plinth, lower air vents should be installed from the third row or the snow line.
13. The lower air vents drain off the condensed moisture, the upper air vents help prevent condensation. The continuous ventilation between the two layers create a funnel effect, so the inner, insulated cladding is not in direct contact with the outer weather conditions.
14. The brick cladding built upon the waterproof plinth base plate should be anchored immediately above the bent-up edge of the waterproof base plate.
15. In the case of vaults, expansion gaps should be designed with adequate clearance above and adjacent to the doors and windows.
16. The combined value of all forces and movements acting on the façade should be taken into account for the structural calculations to define the appropriate type of stainless steel support and suspension consoles to use.





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