

**HAZ METAL**  
FIXING SYSTEMS

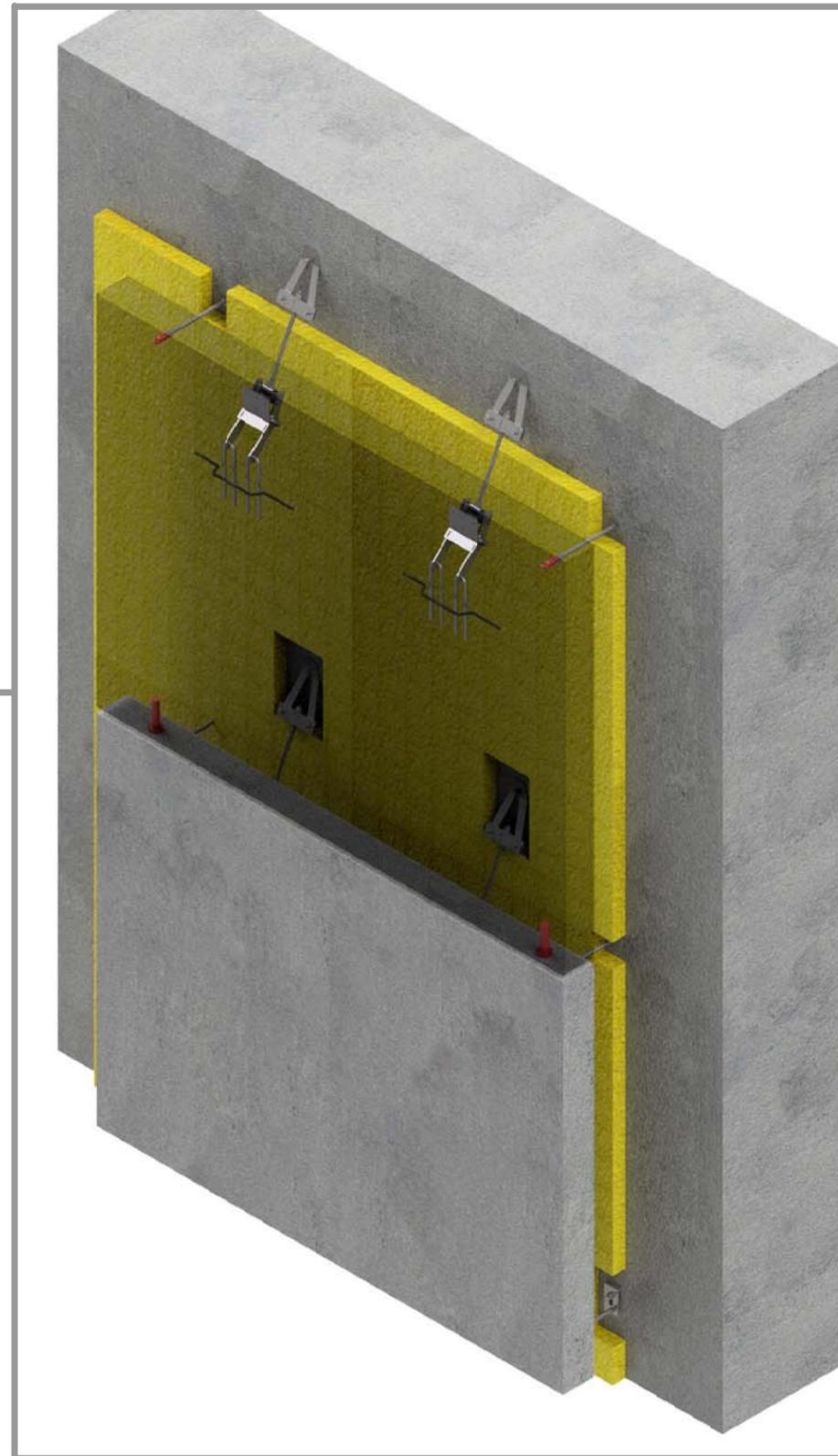
**PA2**

HAZ Panel Anchor

**Concept Drawings**

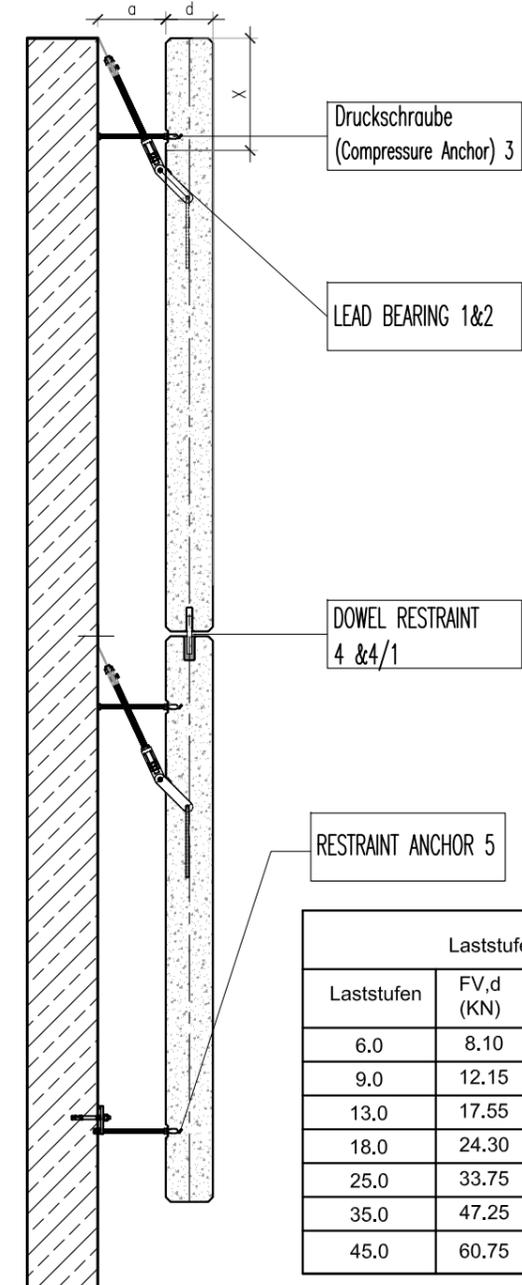
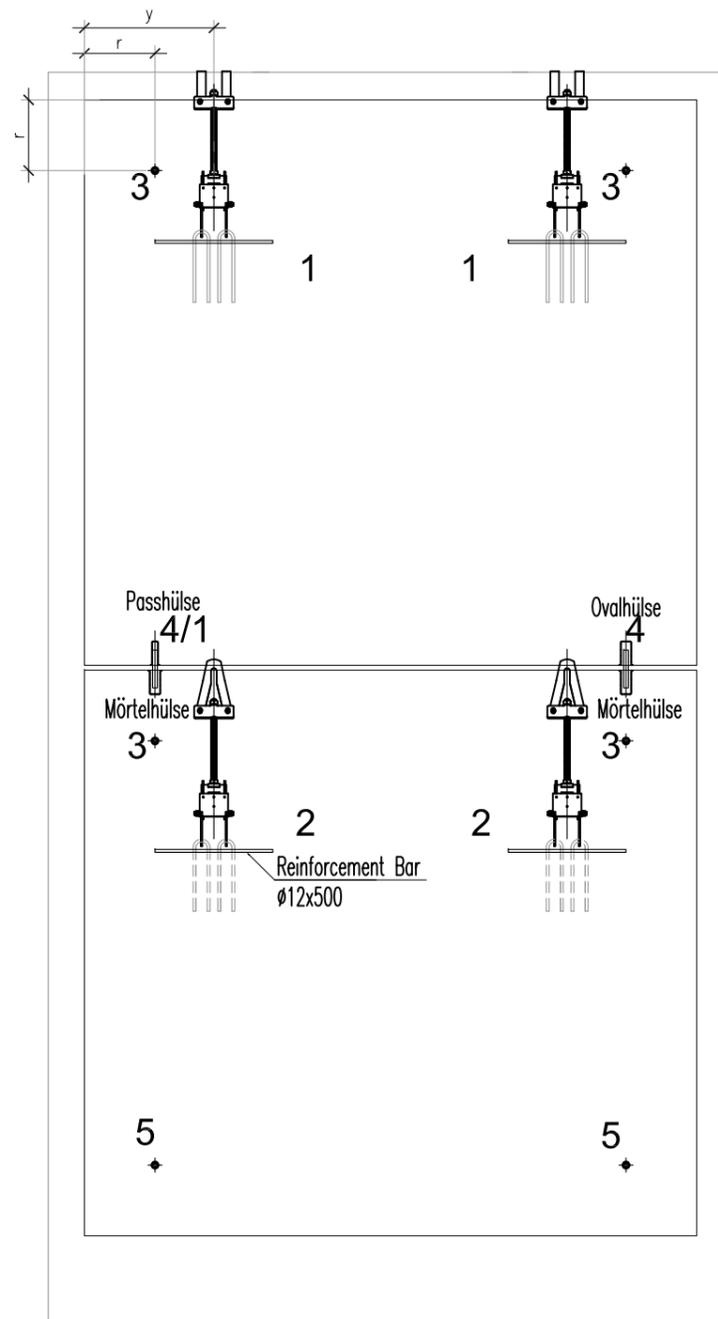
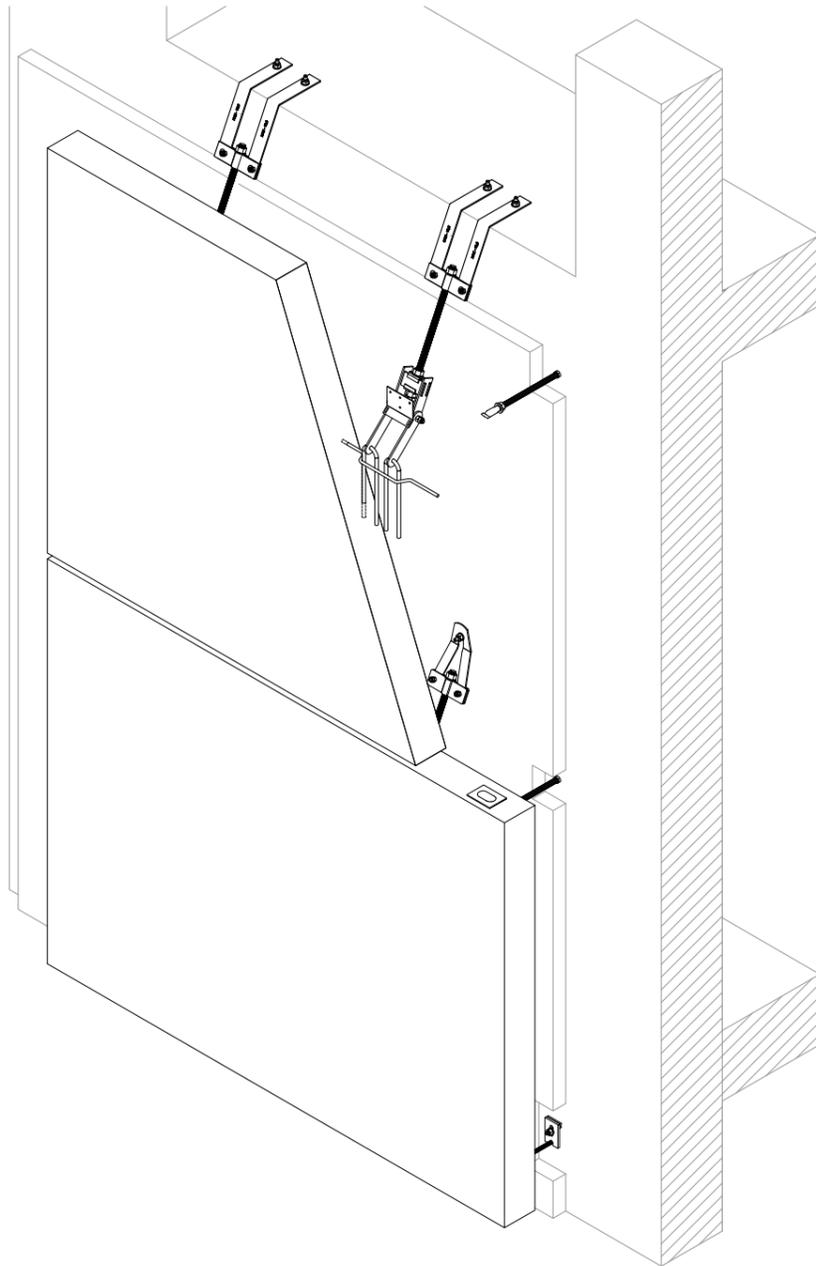
Series: HAZCD-PA2-PC

Concrete Facade Panel Anchor System



# PA2

## Panel Anchor System



Laststufen, Mindest-Randabstände, Mindest-Plattendicke						
Laststufen	FV,d (KN)	Zugstange	min d (mm)	min y (mm)	min x (mm)	min r (mm)
6.0	8.10	M8	80	100	20	80
9.0	12.15	M10	80	110	20	90
13.0	17.55	M12	90	120	20	100
18.0	24.30	M12	90	130	20	110
25.0	33.75	M16	100	140	20	120
35.0	47.25	M20	100	150	20	130
45.0	60.75	M24	120	180	20	150



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Title : Concrete Facade Panel Anchor System -General Description

Drawing No. HAZCD-PA2-PC-01

Series Concept Drawings - Concrete Facade Panel Anchor System System

Revision

01

Scale

As Shown

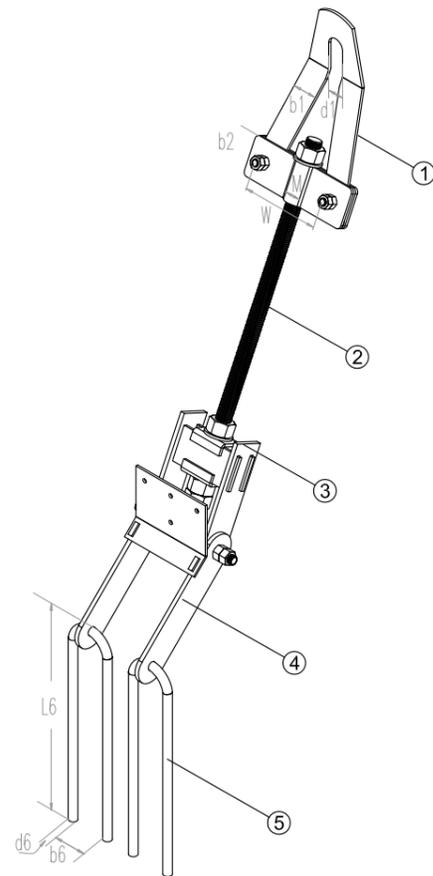
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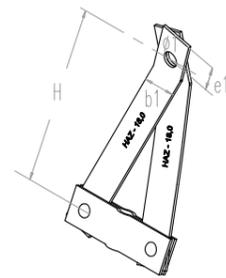
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# PA2

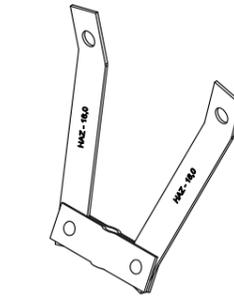
## Panel Anchor System



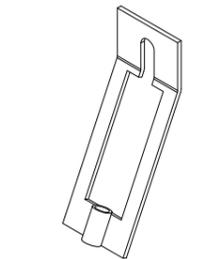
ISOMETRIC VIEW



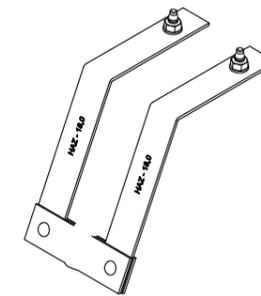
Triangle Oberteil  
Punkt-Befestigung



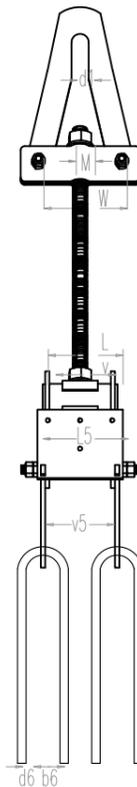
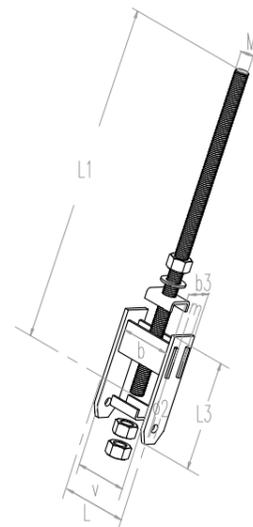
Triangle Oberteil  
Punkt-Befestigung Alternativ



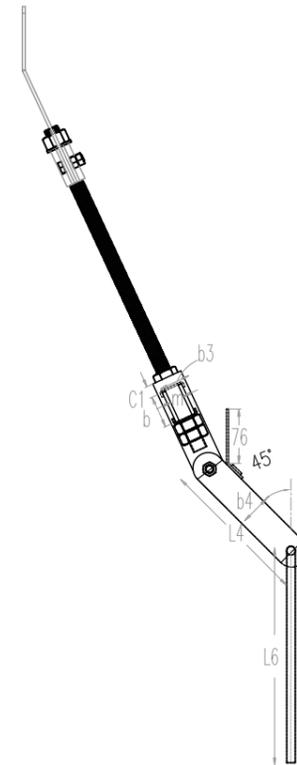
Steigbügel Oberteil  
(Standard for a vertical  
fixing on in situ concrete  
wall or beam)



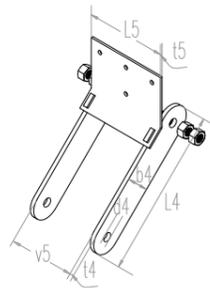
PA2-Attika  
(For Floor Fixing)



Elevation View



Side View



Legend	
1	Oberteil Daniela
2	Zugstange
3	Gelenk
4	Einbauteil
5	Steckbügel

1- Abmessungen Oberteil Daniela						
Laststufen (KN)	h (mm)	b1 (mm)	b2 (mm)	d1 (mm)	w (mm)	M (mm)
6.0	163	21	31	16	82	10 (8)
9.0	163	21	31	16	82	10
13.0	163	21	31	16	82	10
18.0	190	25	40	17	93	12
25.0	206	28	42	21	100	16
35.0	228	36	55	24	118	20
45.0	228	36	55	24	118	20

1-1 Abmessungen Triangel Oberteil							
Laststufen (KN)	H (mm)	b1 (mm)	Ø1 (mm)	b2 (mm)	e1 (mm)	w (mm)	M (mm)
6.0	180	24	13	23	26	90	8
9.0	180	26	13	28	26	90	10
13.0	180	32	13	32	32	90	10
18.0	184	36	17	38	32	92	12
25.0	188	36	17	40	36	94	16
35.0	200	36	17	40	36	100	20
45.0	200	40	17	50	38	100	20

2- Abmessungen Zugstange							
Wandabstand (mm)	100	150	200	250	300	350	400
L1 (mm)	120	235	350	465	580	690	800

3- Abmessungen Gelenk								
Laststufen (KN)	L (mm)	b (mm)	V (mm)	L3 (mm)	b3 (mm)	Ø2 (mm)	C1 (mm)	m (mm)
6.0	92	28	80	88	26	10.5	8	8
9.0	92	28	80	96	26	10.5	8	10
13.0	96	30	80	100	26	10.5	10	10
18.0	96	32	80	110	32	10.5	10	12
25.0	104	34	84	131	34	10.5	13	16
35.0	106	42	86	159	40	12.5	13	20
45.0	106	48	86	167	40	12.5	15	20

4- Abmessungen für Einbauteil und Zulagebewehrung										
Laststufen	b4 (mm)	t4 (mm)	d4 (mm)	L4 (mm)	v4 (mm)	L5 (mm)	t5 (mm)	d6 (mm)	b6 (mm)	L6 (mm)
6.0	26	3	11	157	86.5	103	3	6	24	250
9.0	26	3	11	168	86.5	103	3	6	24	250
13.0	26	4	11	178	88.5	107	3	8	32	250
18.0	32	4	11	206	88.5	107	3	8	32	300
25.0	34	4	11	230	92.5	111	3	10	40	350
35.0	40	5	13	276	96.5	117	3	12	48	350
45.0	40	6	13	291	98.5	121	4	12	48	400



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Title : Concrete Facade Panel Anchor System - PA2 Specification

Drawing No. HAZCD-PA2-PC-02

Series Concept Drawings - Concrete Facade Panel Anchor System System

Revision

01

Scale

As Shown

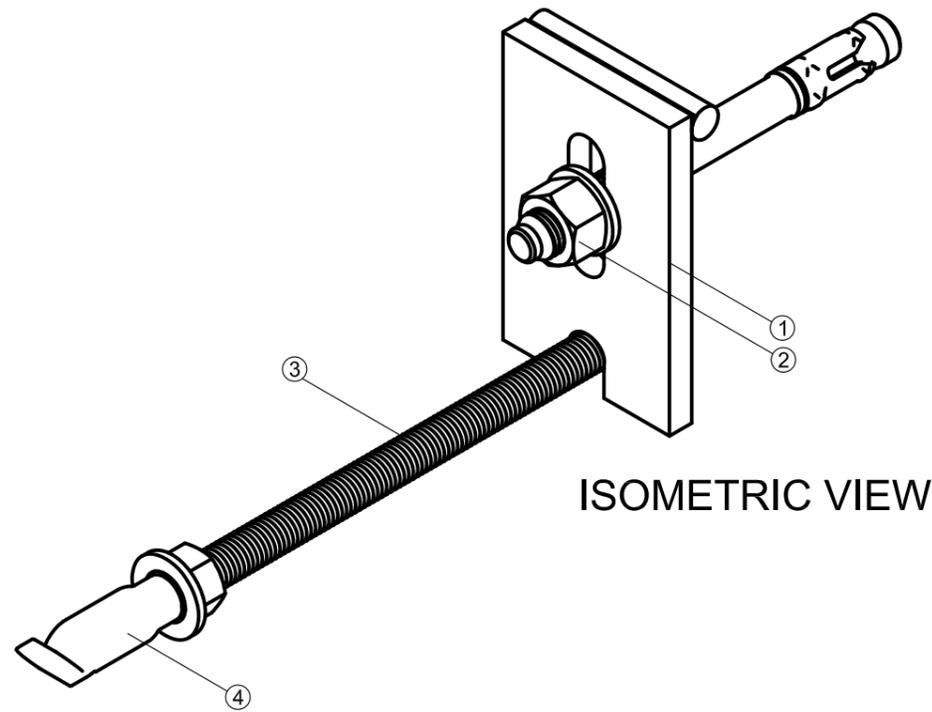
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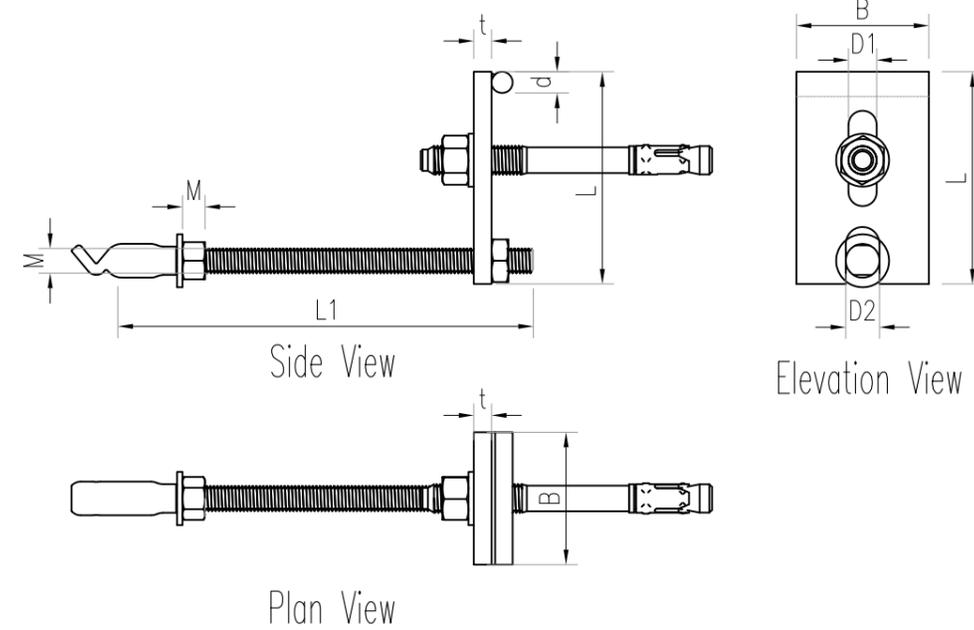
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# PA2-DS1

Restraint Anchor



ISOMETRIC VIEW



Side View

Plan View

Elevation View

Legend	
1	Soghalter
2	mit Mutter
3	DS1 -Druckschrauben
4	Gewindehülsen

Gewindehülsen Bezeichnung	M mm
PA2-GH-M12x60	M12
PA2-GH-M12x80	M12
PA2-GH-M12x100	M12
PA2-GH-M16x70	M16
PA2-GH-M16x80	M16
PA2-GH-M16x100	M16
PA2-GH-M20x100	M20

Druckschrauben DS1 mit Mutter und U-Scheibe DIN 9021					
DS1-M12	K mm	DS1-M16	K mm	DS1-M16	K mm
DS1-M12x100	7	DS1-M16x100	8	DS1-M20x100	10
DS1-M12x120	7	DS1-M16x120	8	DS1-M20x120	10
DS1-M12x140	7	DS1-M16x140	8	DS1-M20x140	10
DS1-M12x160	7	DS1-M16x160	8	DS1-M20x160	10
DS1-M12x180	7	DS1-M16x180	8	DS1-M20x180	10
DS1-M12x200	7	DS1-M16x200	8	DS1-M20x200	10
DS1-M12x220	7	DS1-M16x220	8	DS1-M20x220	10

Soghalter PA2-BR						
Bezeichnung Soghalter	L	B	t	d	d1	d2
PA2-BA-M12	134	50	6	7	11	13
PA2-BA-M12	152	55	6	8	13	17
PA2-BA-M12	180	75	6	10	13	21



Title : Concrete Facade Panel Anchor System - Restraint Anchor - PA2-DS1 Specification

Drawing No. HAZCD-PA2-PC-03

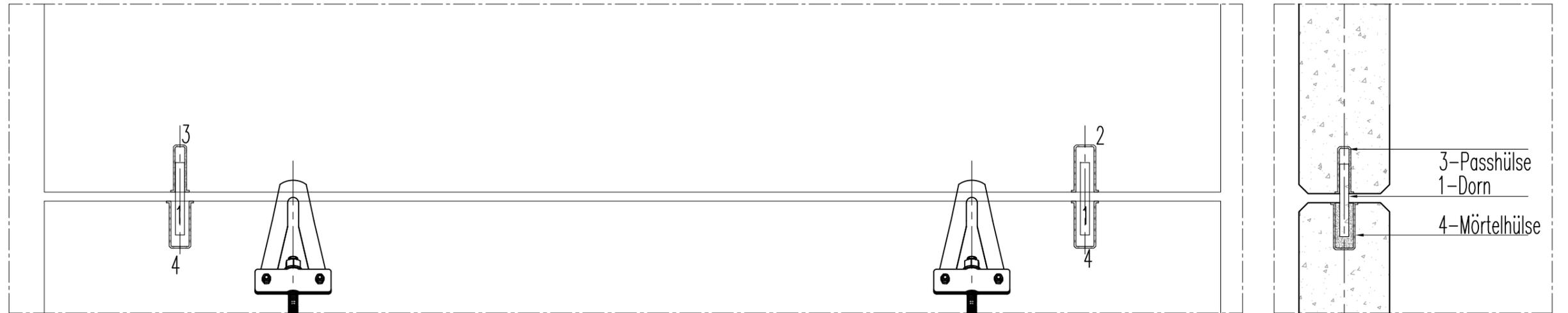
Series Concept Drawings - Concrete Facade Panel Anchor System System

Revision 01 Scale As Shown Paper Size: A3 Page : 3/14

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# PA2-DS1

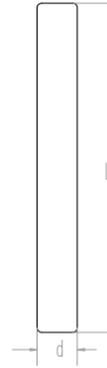
## Dowel Restraints



Elevation View

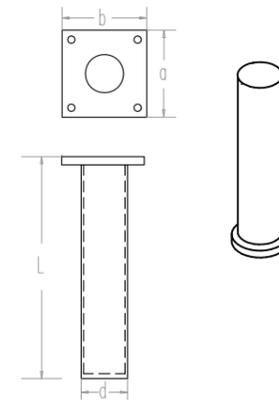
Section Detail

1- Dorn			
Bezeichnung Dorn	L mm	d mm	Last Stufe KN
Dorn 16x160	160	16	2,5
Dorn 20x160	160	20	5,0



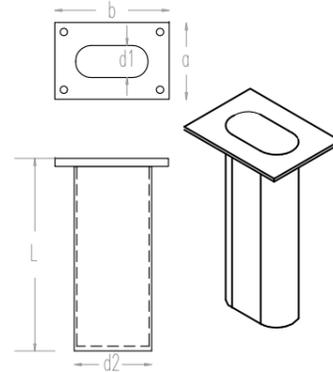
3-Passhüse		
Bezeichnung Passhüse	L mm	d mm
Pass-17	100	17
Pass-21	100	21

a x b = 40x60 mm



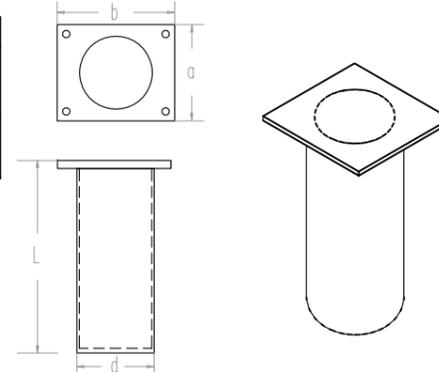
2-Ovalhüse			
Bezeichnung Ovalhüse	L mm	d1 mm	d2 mm
Ova -17	100	17	40
Ova -21	100	21	40

Ova-17 : a x b= 40x60 mm  
Ova-21 : a x b= 44x60 mm



Mörtelhüse		
Bezeichnung Mörtelhüse	L mm	d mm
Möh- 40	100	40

axb = 50x60 mm



Title : Concrete Facade Panel Anchor System - PA2 System- Dowel Restraints Specification

Drawing No. HAZCD-PA2-PC-04

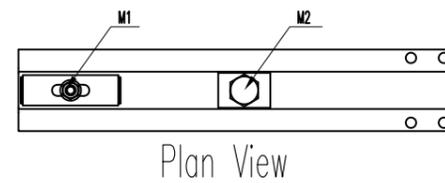
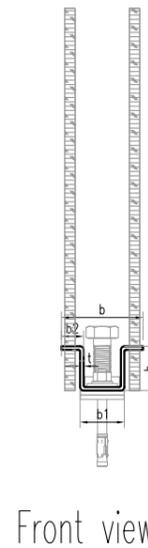
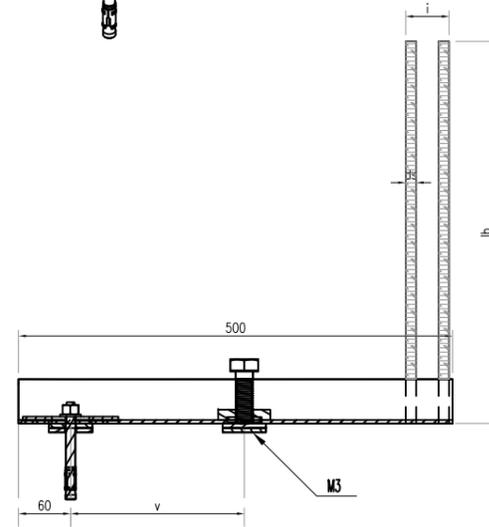
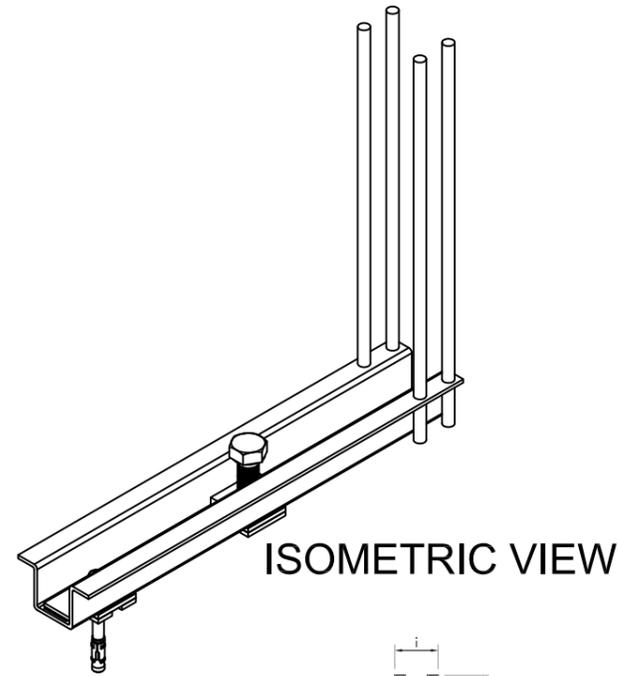
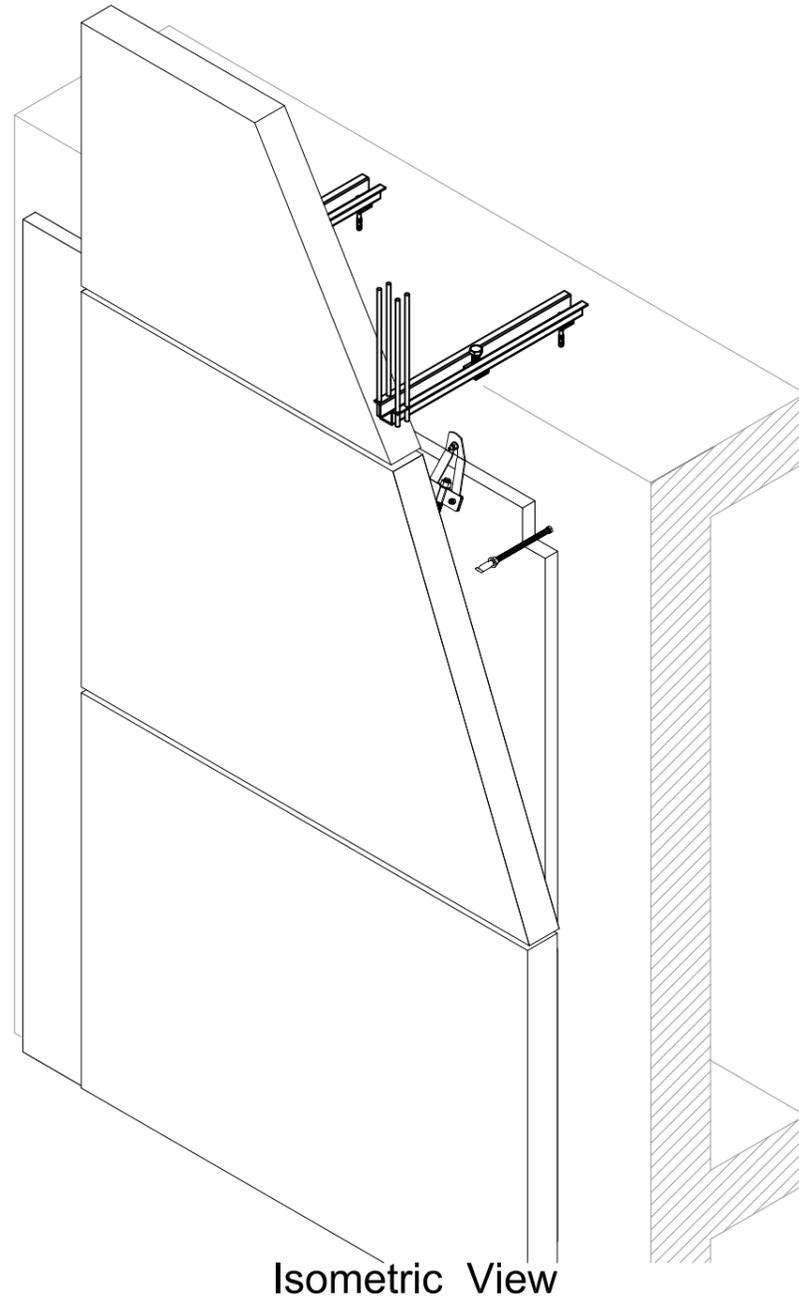
Series Concept Drawings - Concrete Facade Panel Anchor System System

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# BRA

Parapet Bracket



Laststufen, Mindest-Randabstände, Mindest-Plattendicke								
Part	Dim.	BA1	BA2	BA3	BA4	BA5	BA6	Description
Profile	b	74	84	94	122	122	144	Profil-Gesamtbreite
	b1	40	45	51	65	66	77	Profilbreite unten
	h	44	48	54	66	70	83	Profilhöhe
	b2	20	22.5	25.5	32.5	33	38,5	Profilbreite oben
	t	3	3	4	4	5	5	Blechdicke
	L	Variable						
ZPL	d1	13	17	17	17	21	21	Lochdurchmesser
GP	a/b/t	111/30/4	111/30/4	111/30/4	111/35/4	111/45/5	111/45/5	Zahnplatte mit LL
	M	M16	M16	M20	M24	M27	M27	Gewindeloch
ZPL	ds	10	10	12	14	14	16	Betonstahl B500B
	ib	350	400	440	50	520	600	Betonstahl B500B
	i	40	40	50	60	70	75	Abstand i
ZPL	ZP	30/30/4	35/35/4	35/35/4	35/35/4	45/45/4	45/45/4	Zahnplatte mit RL
	UL3	35/35/3	35/35/3	50/50/3	50/50/3	50/50/3	60/60/3	2x U-Platte mit off. LL
	UL5	35/35/5	35/35/5	50/50/5	50/50/3	50/50/3	60/60/5	U-Platte mit offenem LL
ZPL	JS	M16x60	M16x60	M20x60	M24x60	M27x80	M27x80	Justierschraube
	FP	40/40/6	40/40/6	40/40/6	40/40/6	60/60/10	60/60/10	Fußplatte
ZPL	U3	35/35/4	35/35/3	50/50/3	50/50/3	50/50/3	60/60/3	2 Stück Unterlegplatten
	U5	35/35/5	35/35/5	50/50/5	50/50/3	50/50/3	60/60/5	Unterlegplatte



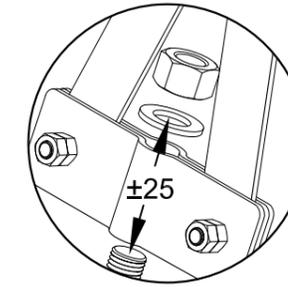
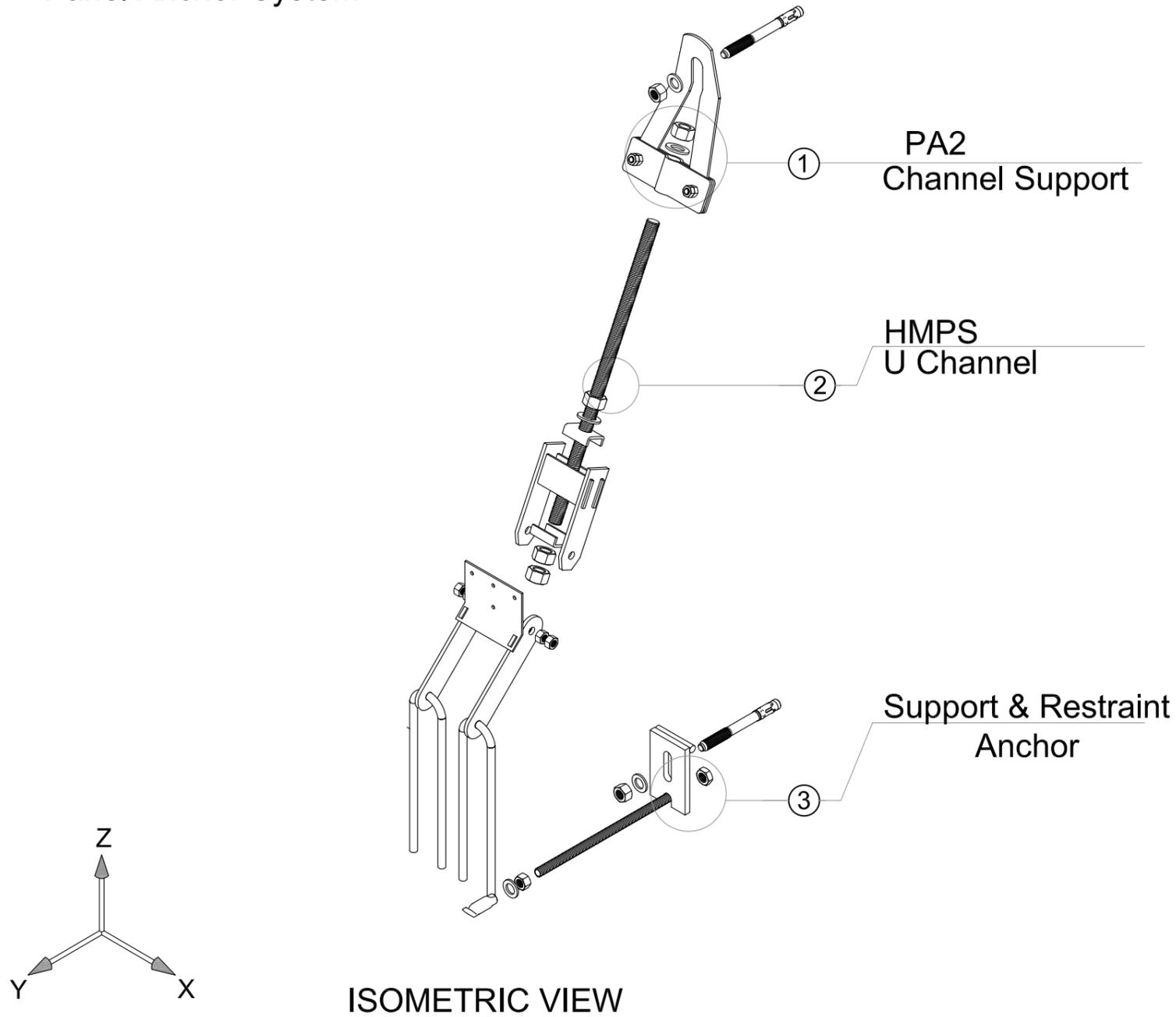
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Concrete Facade Title: Panel Anchor System -Parapet Bracket - BRA - General Description

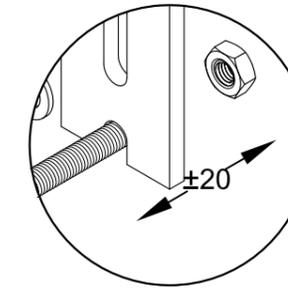
Drawing No.	HAZCD-PA2-PC-05			
Series	Concept Drawings - Concrete Facade Panel Anchor System System			
Revision	01	Scale	As Shown	Paper Size: A3
			Page :	5/14

# PA2

Panel Anchor System



① The Adjustability on the Z&Y axes are Provided by moving Threaded Rod in&out Welded Pipe  $\pm 120$  mm .



③ Adjustment of the Projection size on the Y Axis is provided by rotating the adjustable arm  $\pm 15$ mm.

Note: For Further Dimension Refer to Each Items Details Drawings.

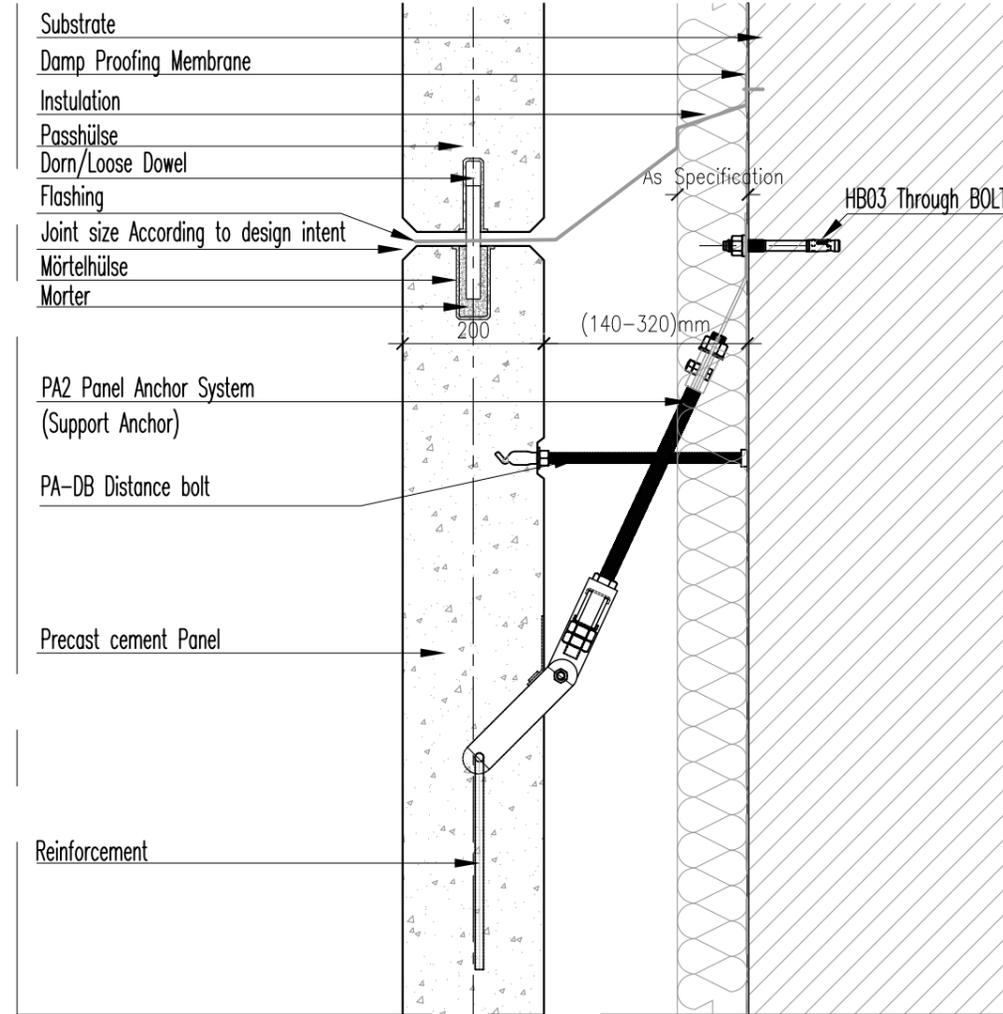


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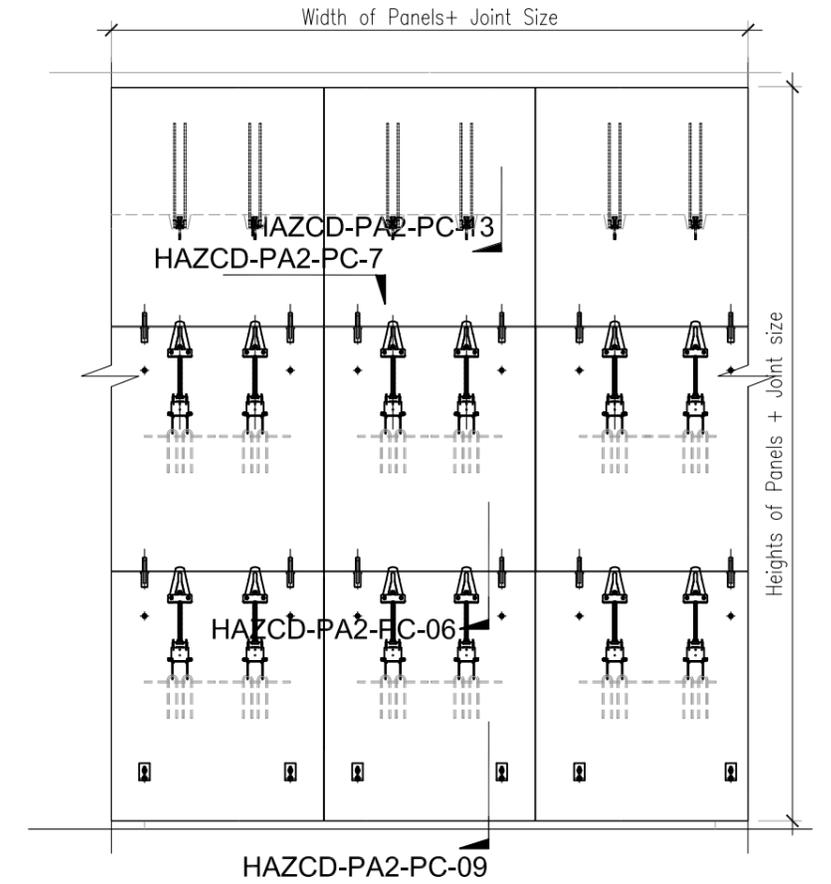
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Drawing No.	HAZCD-PA2-PC-06					
Series	Concept Drawings - Concrete Facade Panel Anchor System System					
Revision	01	Scale	As Shown	Paper Size:	A3	Page : 6/14

# PA2

Panel Anchor System



Vertical section Scale 1:10



Elevation Scale 1:50



Title : Concrete Facade Panel Anchor System - PA2 System - Vertical Section

Drawing No. HAZCD-PA2-PC-07

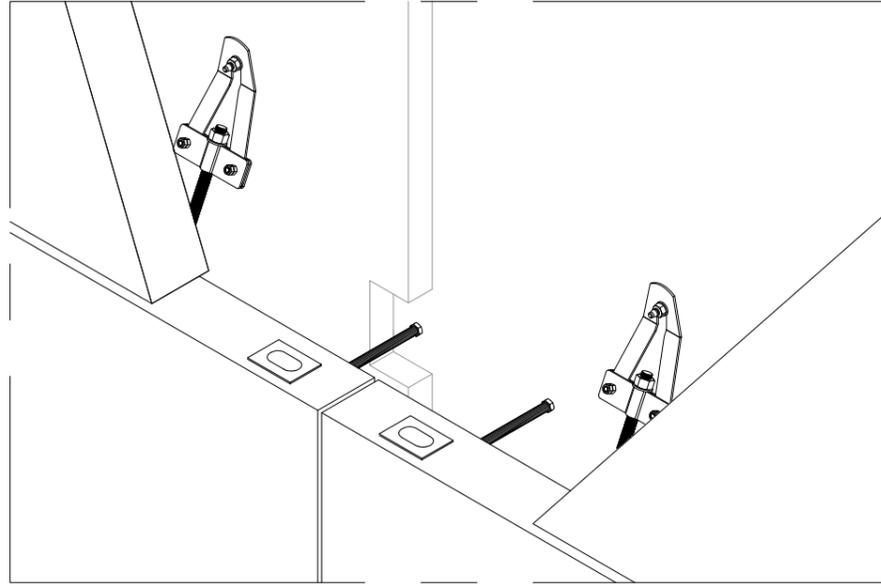
Series Concept Drawings - Concrete Facade Panel Anchor System System

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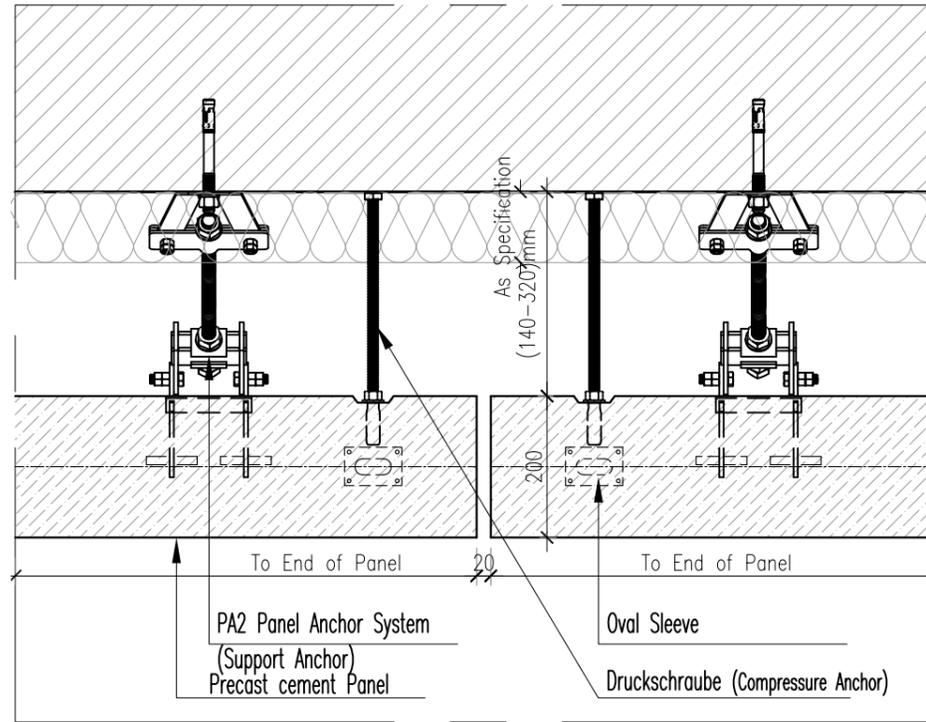
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# PA2

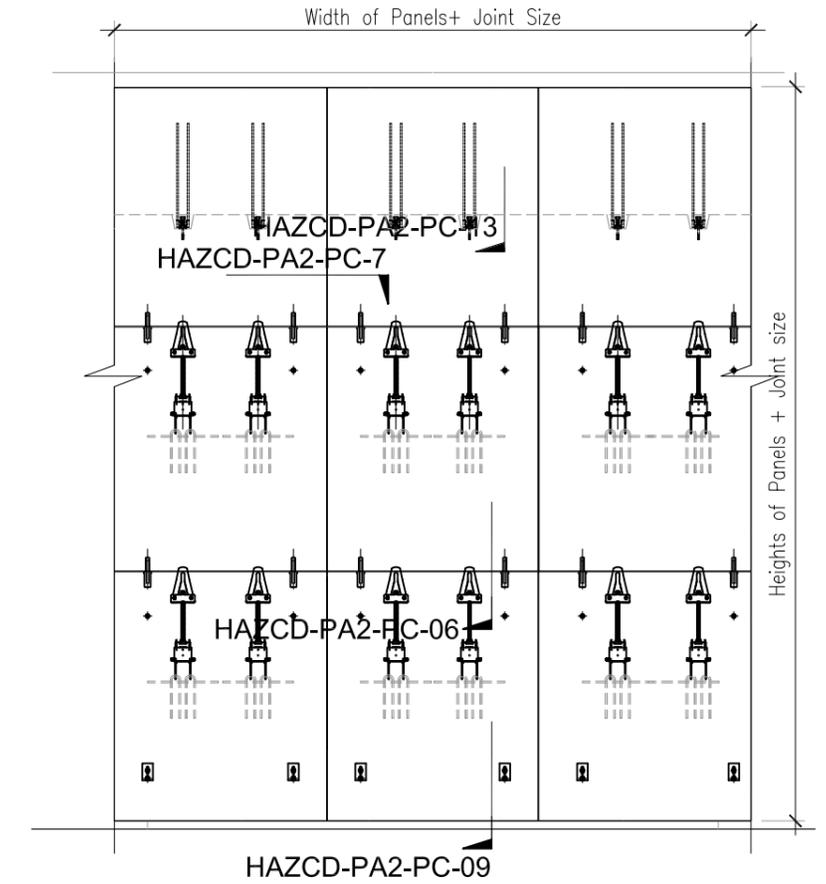
Panel Anchor System



Isometric View



Horizontal Section scale 1:10



Elevation Scale 1:50



Title : Concrete Facade Panel Anchor System - PA2 System - Horizontal Section

Drawing No. HAZCD-PA2-PC-08

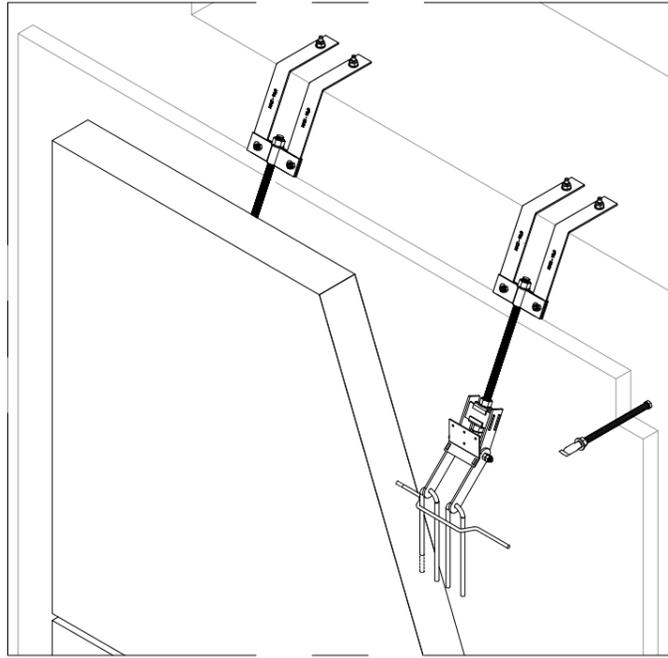
Series Concept Drawings - Concrete Facade Panel Anchor System System

Revision	01	Scale	As Shown	Paper Size: A3	Page :	8/14
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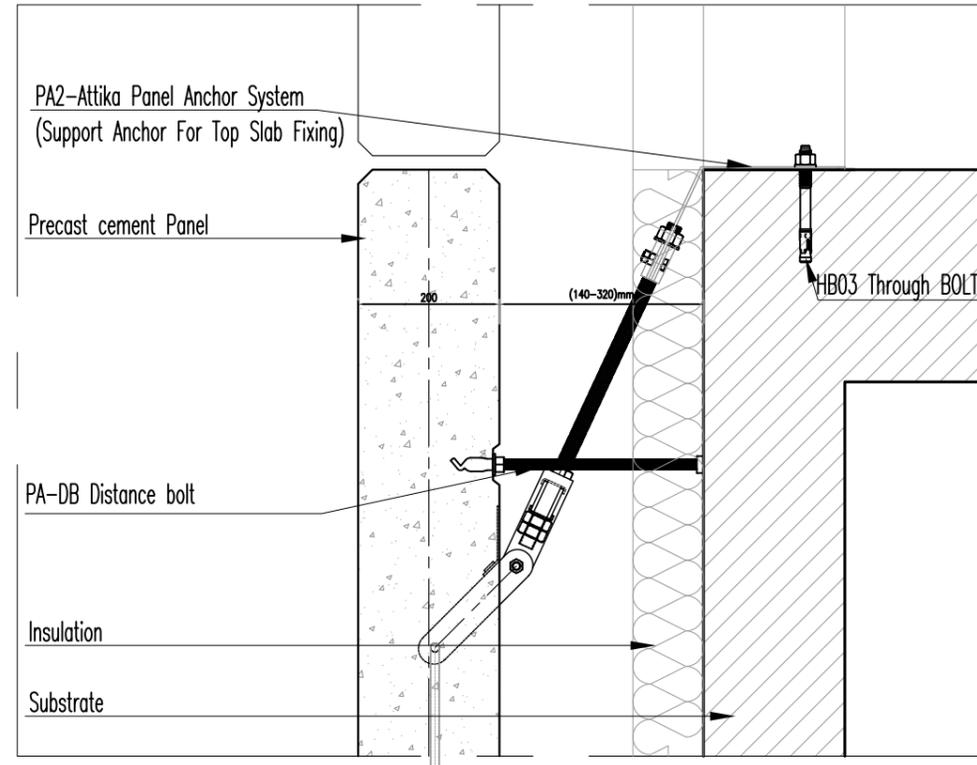
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# PA2

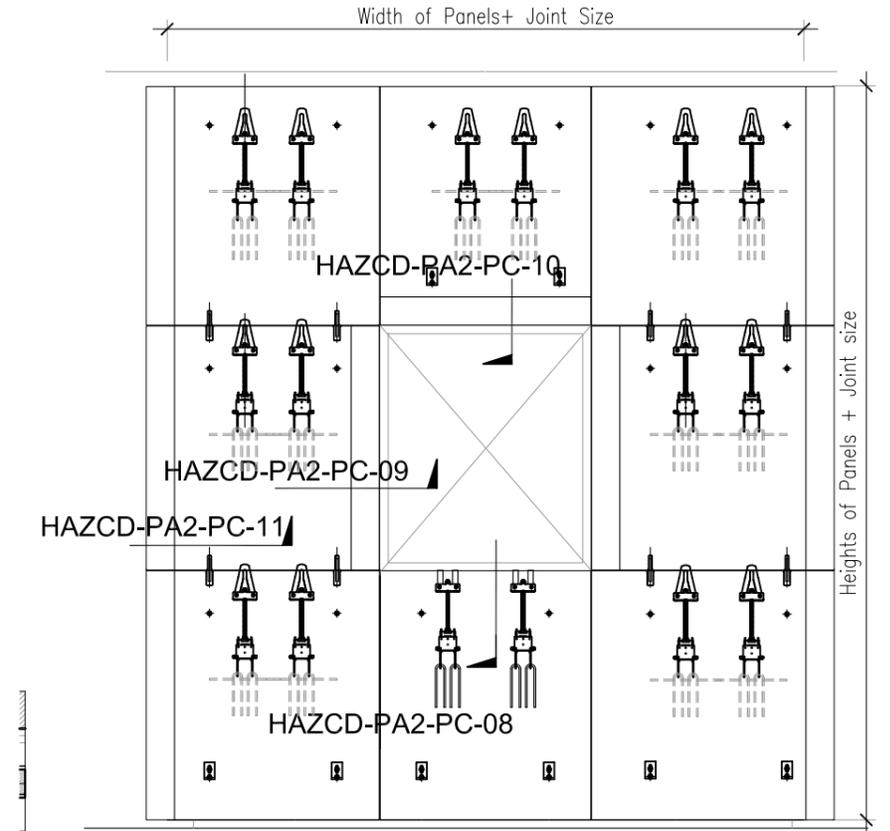
Panel Anchor System



Isometric View



Vertical section Scale 1:10



Elevation Scale 1:50



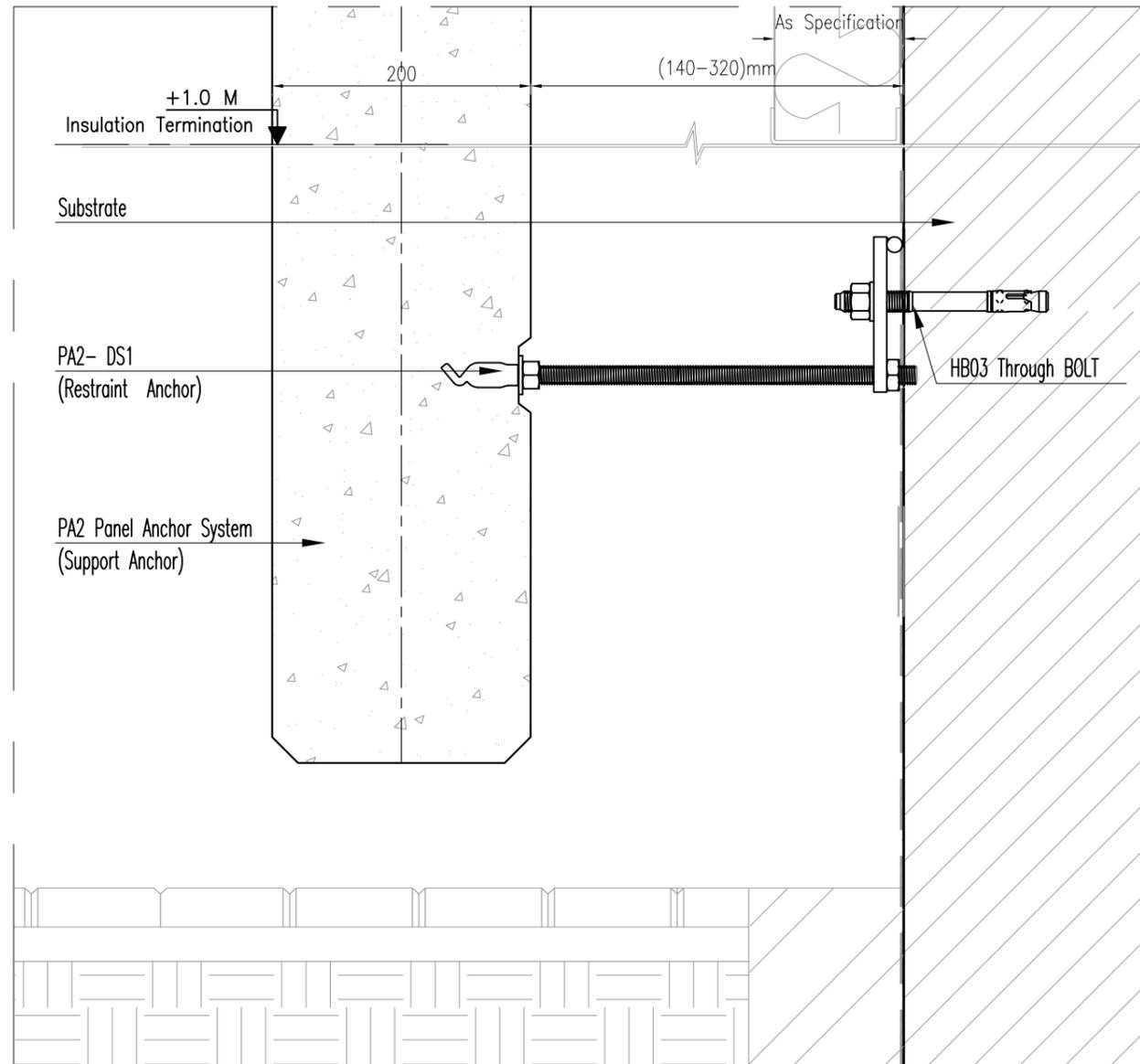
Concrete Facade Panel Anchor System - PA2 System - Top Slab Fixing - Vertical Section

Drawing No.	HAZCD-PA2-PC-09				
Series	Concept Drawings - Concrete Facade Panel Anchor System System				
Revision	01	Scale	As Shown	Paper Size: A3	Page : 9/14

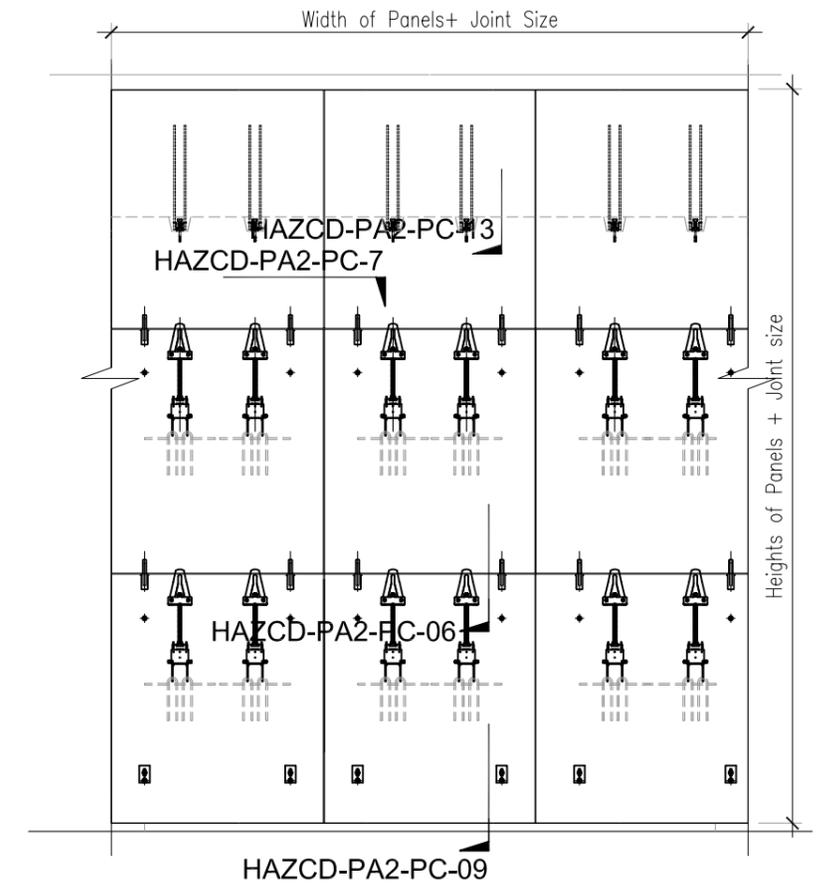
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# PA2

## Panel Anchor System



Vertical section Scale 1:5



Elevation Scale 1:50



Concrete Facade Panel Anchor System - PA2 System - Base Wall - Vertical Section

Drawing No. HAZCD-PA2-PC-10

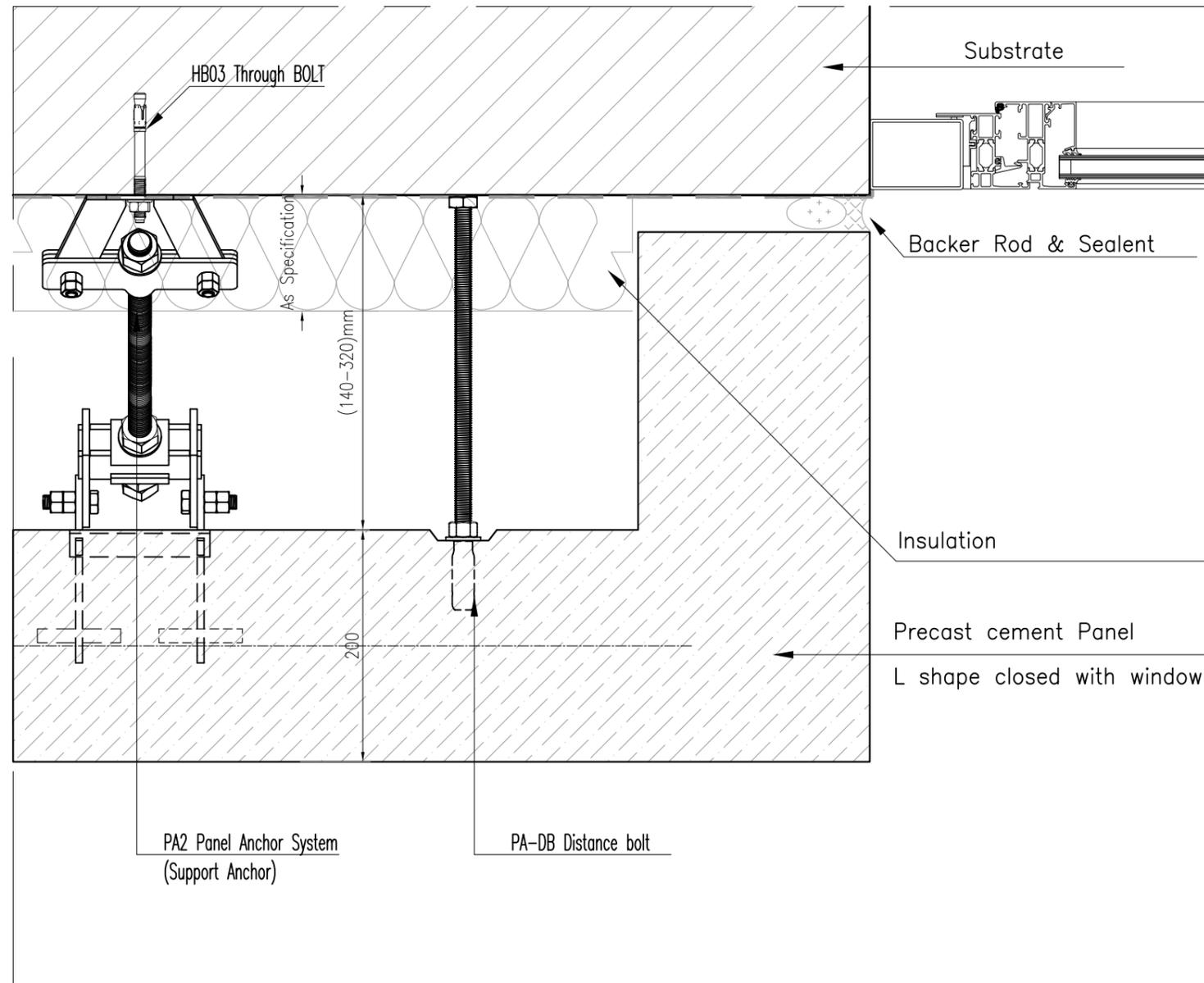
Series Concept Drawings - Concrete Facade Panel Anchor System System

Revision 01 Scale As Shown Paper Size: A3 Page : 10/14

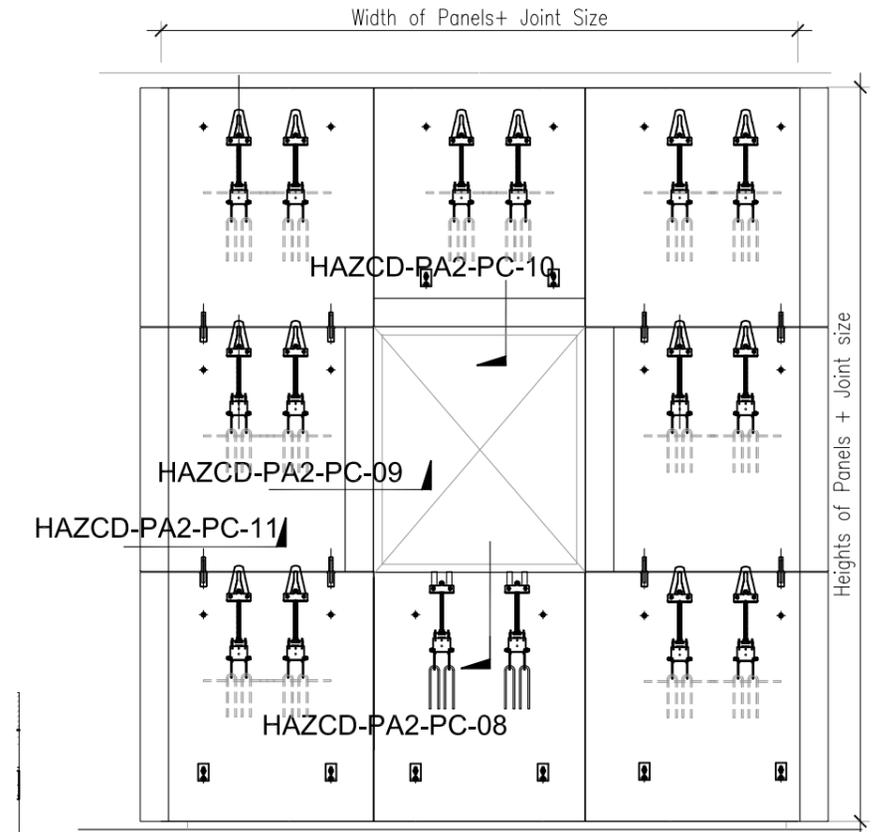
HAZ METAL Sanayi ve Ticaret A.S  
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 info@hazmetal.com / www.hazmetal.com.

# PA2

## Panel Anchor System



Horizontal section Scale 1:5



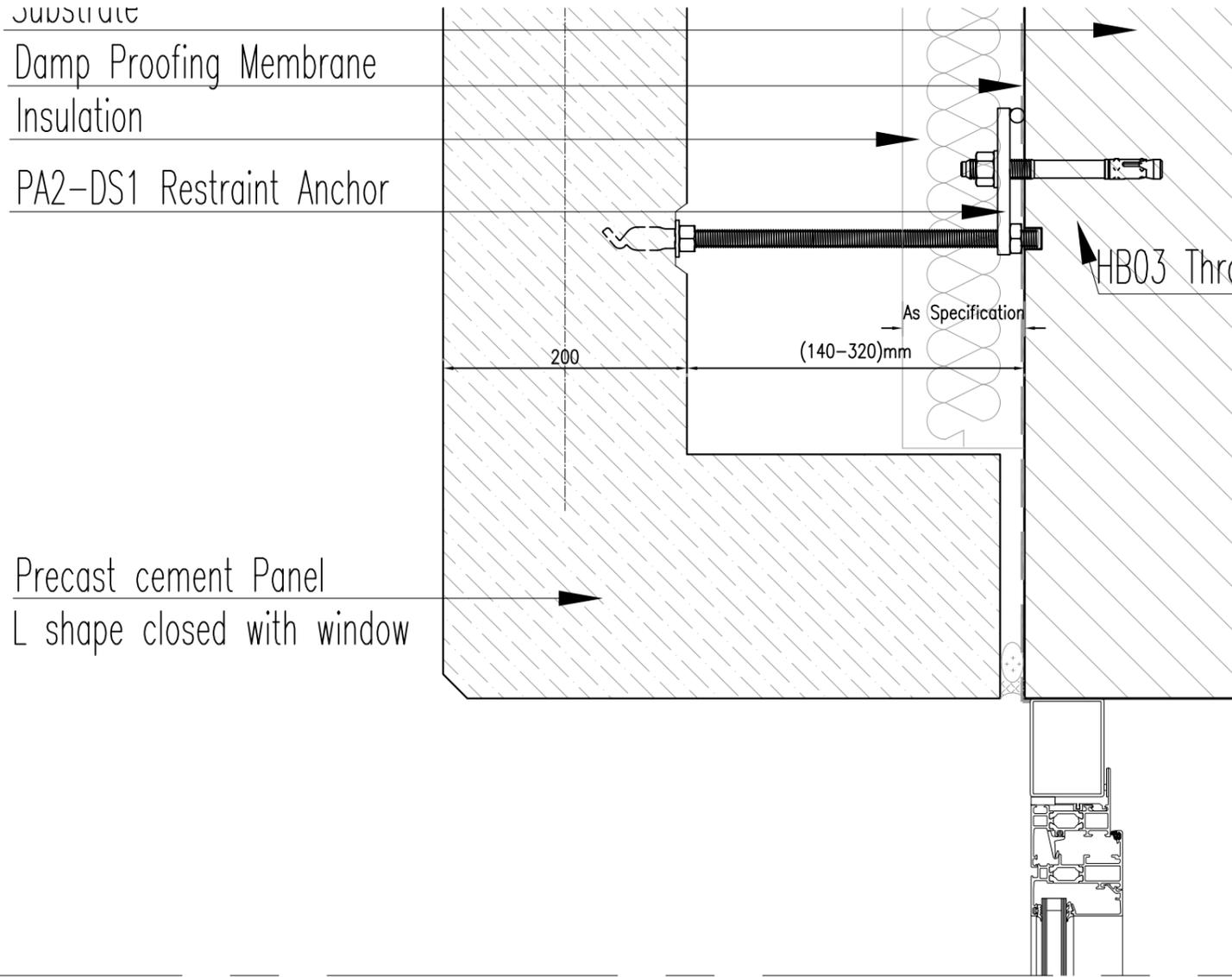
Elevation Scale 1:50



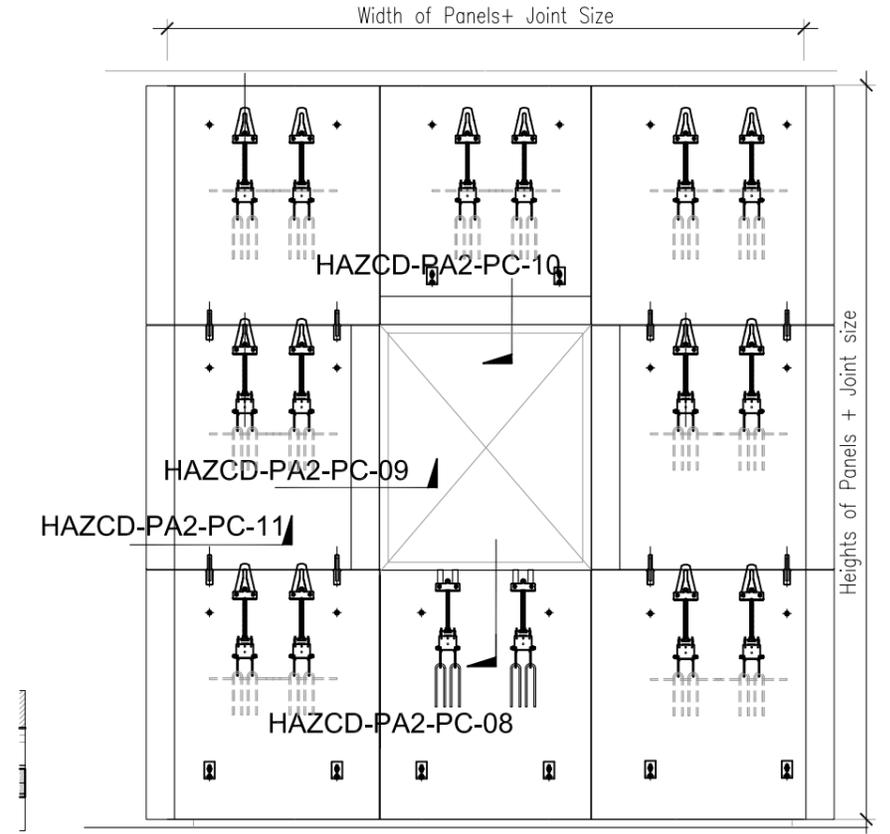
HAZ METAL FIXING SYSTEMS		Title :Concrete Facade Panel Anchor System - PA2 System - L shape closed with window Horizontal section			
HAZ METAL Sanayi ve Ticaret A.S PO Box 241 31200 Iskenderun / Turkey Tel: +90 326 6262050 Faks: 6262045 info@hazmetal.com / www.hazmetal.com.		Drawing No.		HAZCD-PA2-PC-11	
		Series		Concept Drawings - Concrete Facade Panel Anchor System System	
Revision		01	Scale	As Shown	Paper Size: A3
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# PA2

## Panel Anchor System



Vertical section Scale 1:10



Elevation Scale 1:50



Title : Concrete Facade Panel Anchor System - PA2 System - Vertical Section

Drawing No. HAZCD-PA2-PC-12

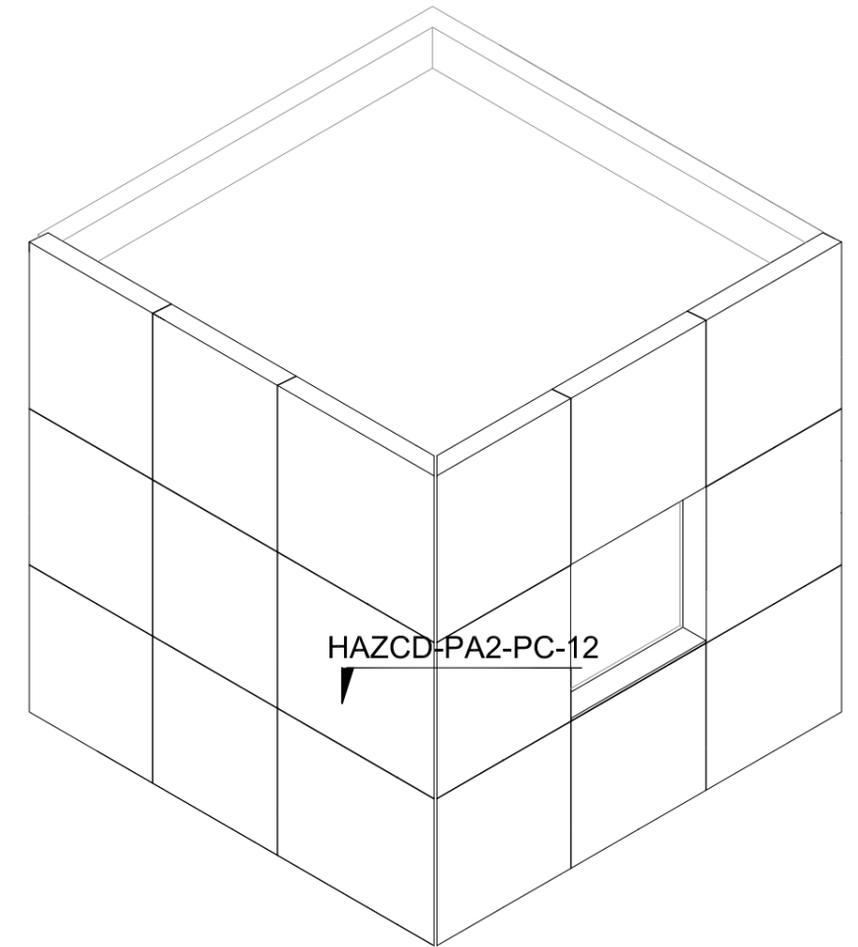
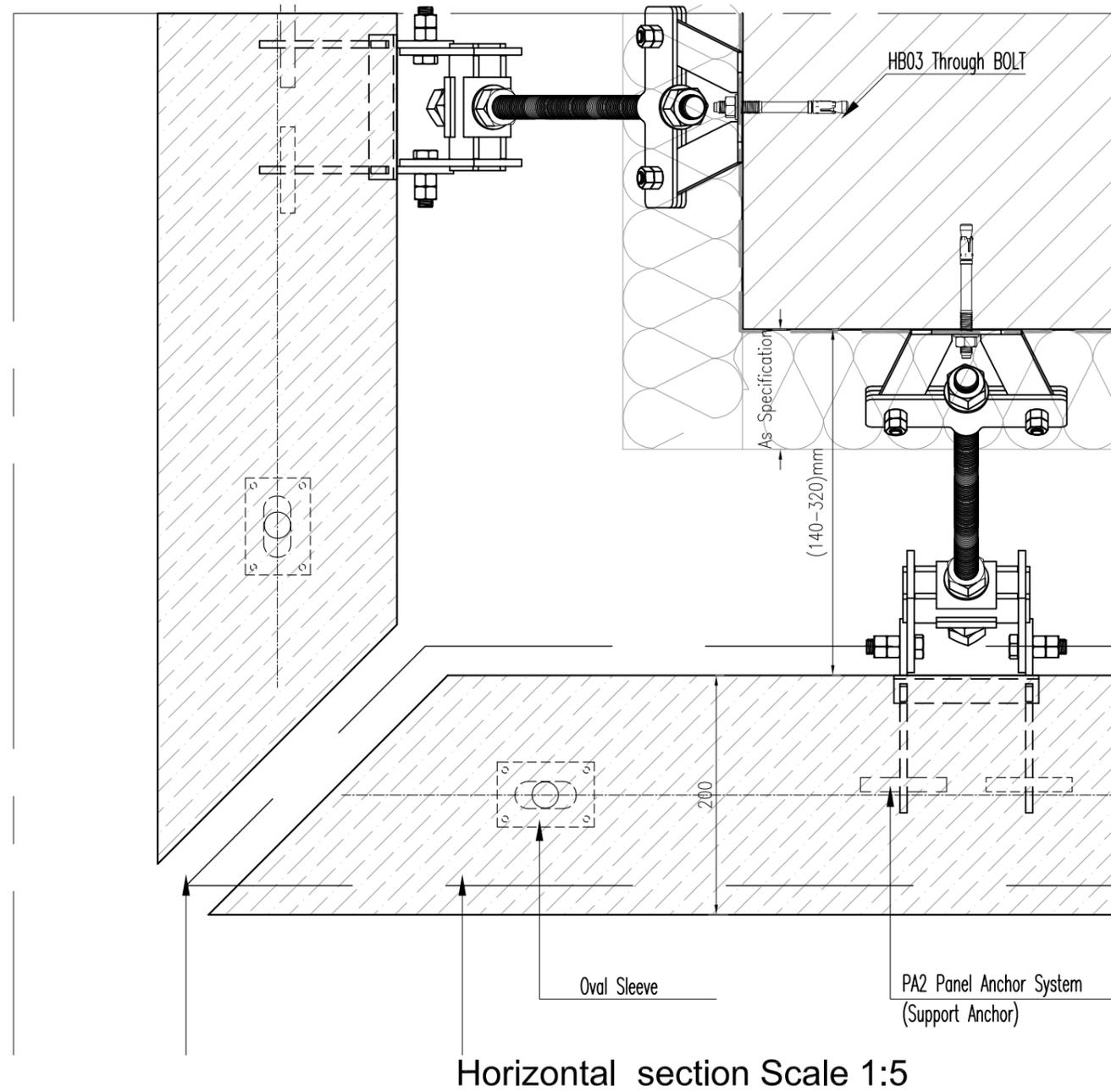
Series Concept Drawings - Concrete Facade Panel Anchor System System

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# PA2

## Panel Anchor System



Elevation Scale 1:50

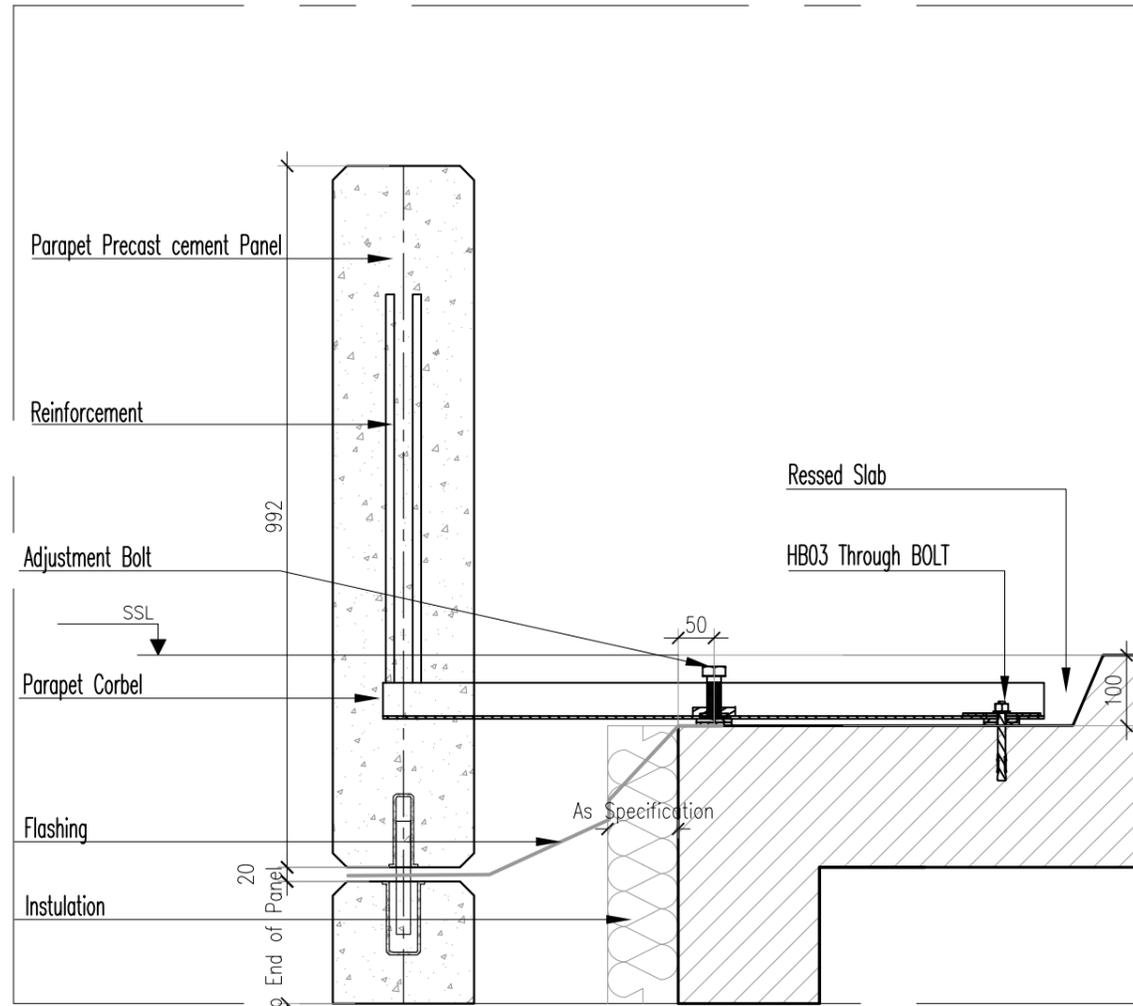


Title :		Concrete Facade Panel Anchor System - PA2 System - External Corner - Horizontal Section			
Drawing No.	HAZCD-PA2-PC-13				
Series	Concept Drawings - Concrete Facade Panel Anchor System System				
Revision	01	Scale	As Shown	Paper Size: A3	Page : 13/14

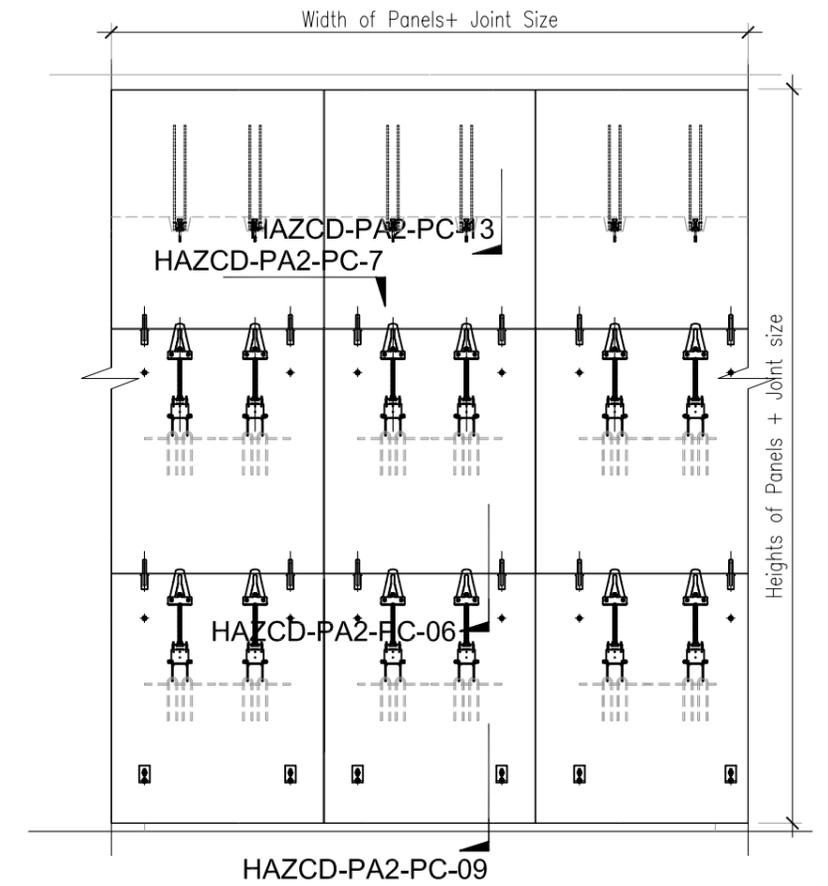
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# PA2

## Panel Anchor System



Vertical section Scale 1:10



Elevation Scale 1:50



Title : Concrete Facade Panel Anchor System - PA2 System - Vertical Section	
Drawing No.	HAZCD-PA2-PC-14
Series	Concept Drawings - Concrete Facade Panel Anchor System System
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