

HAZ METAL
FIXING SYSTEMS

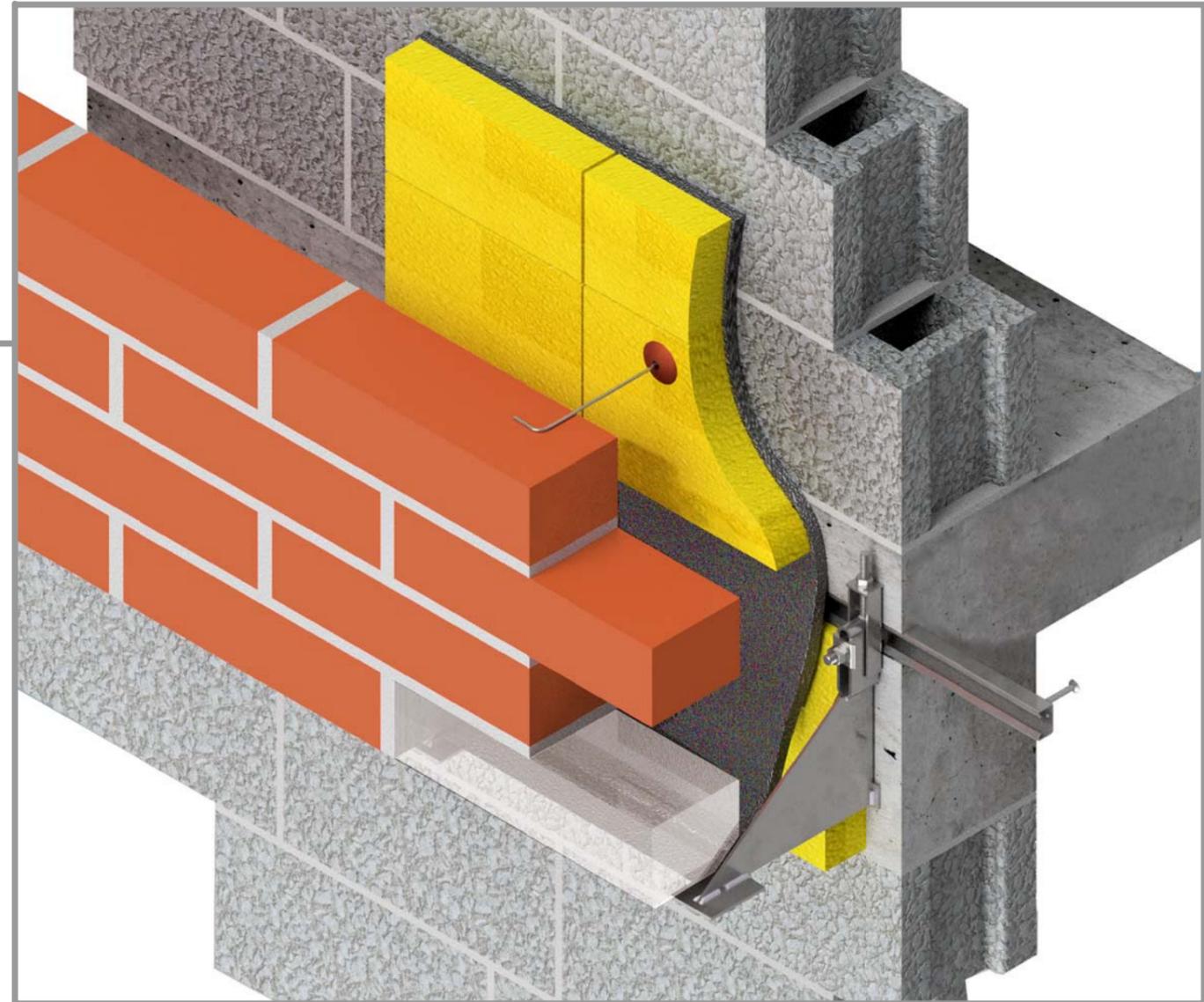
FIX

HAZ BRICKWORK SUPPORT SYSTEM

Concept Drawings

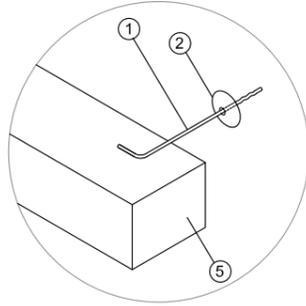
Series: HAZCD-FIX-BS

BRICKWORK SUPPORT SYSTEM FOR
MASONRY AND CONCRETE

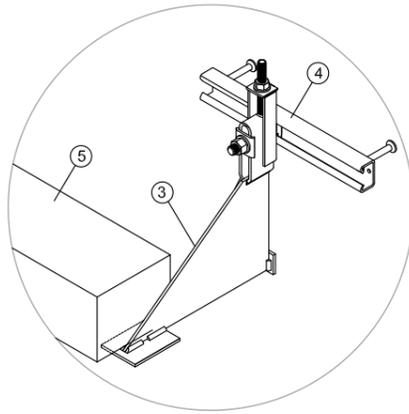


FIX

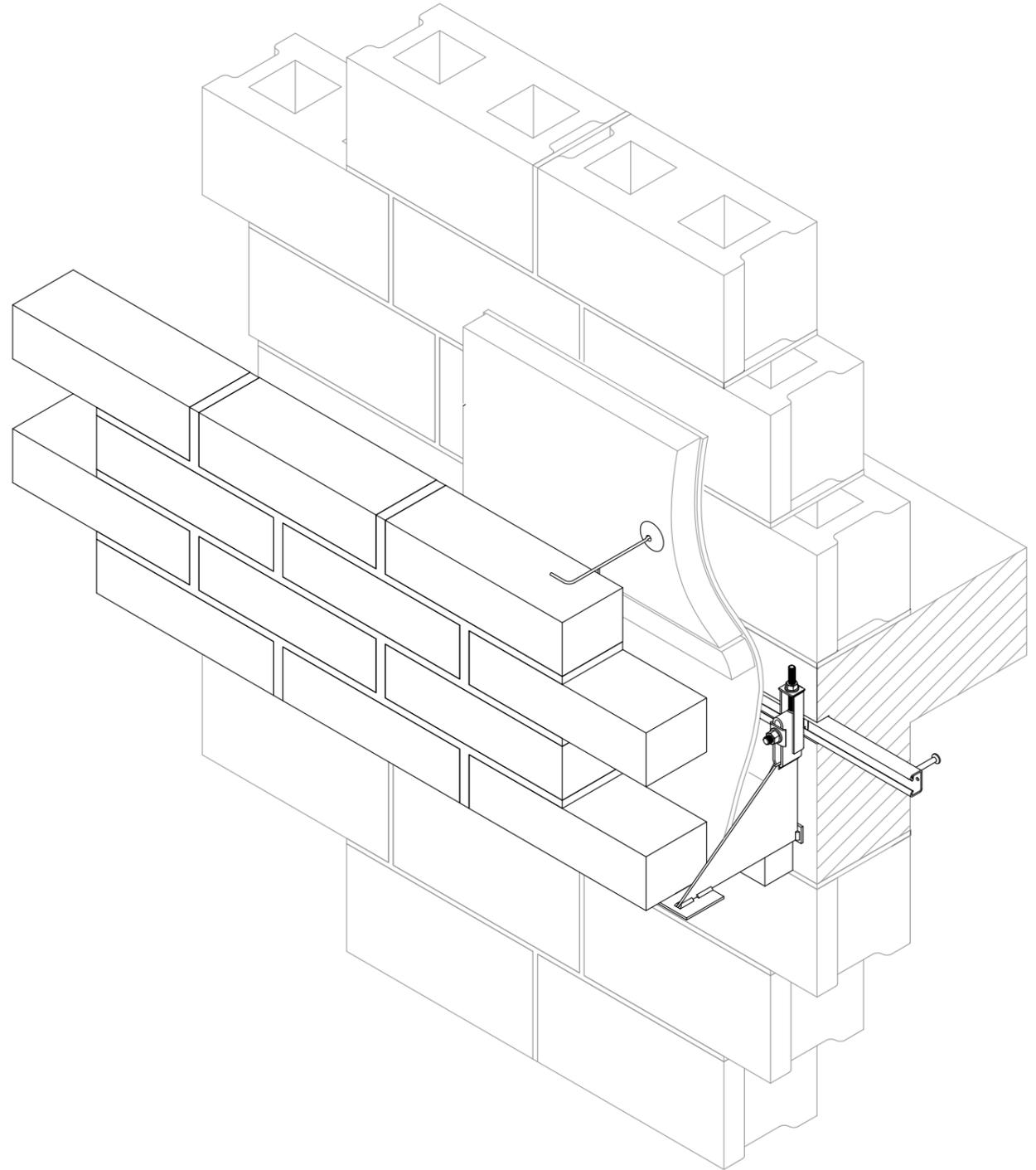
Brickwork Support Brackets



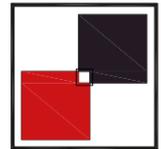
HRST-M
Wall Restraining Tie



FIX-U
Support Bracket



Legend	
1	Restraint Tie
2	Insulation Holder
3	Bracket Body
4	Cast-in Channel
5	Brickwork Tile



HAZ METAL
FIXING SYSTEMS

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info@hazmetal.com / www.hazmetal.com.

Title : Brickwork Support System - FIX-U with Cast-in Channel - Block Work Substrate

Drawing No. HAZCD-FIX-BR-01

Series Concept Drawings - Brickwork Fixing System - FIX Support Anchors

Revision

01

scale

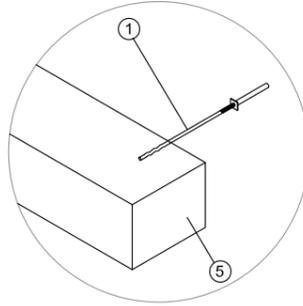
As Shown

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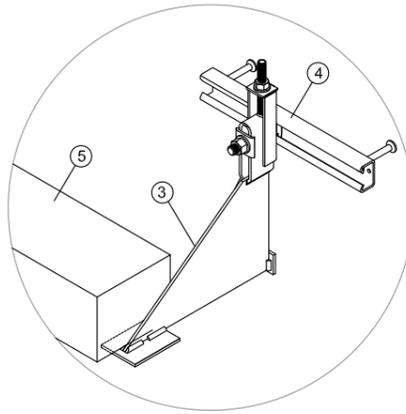
01/37

FIX

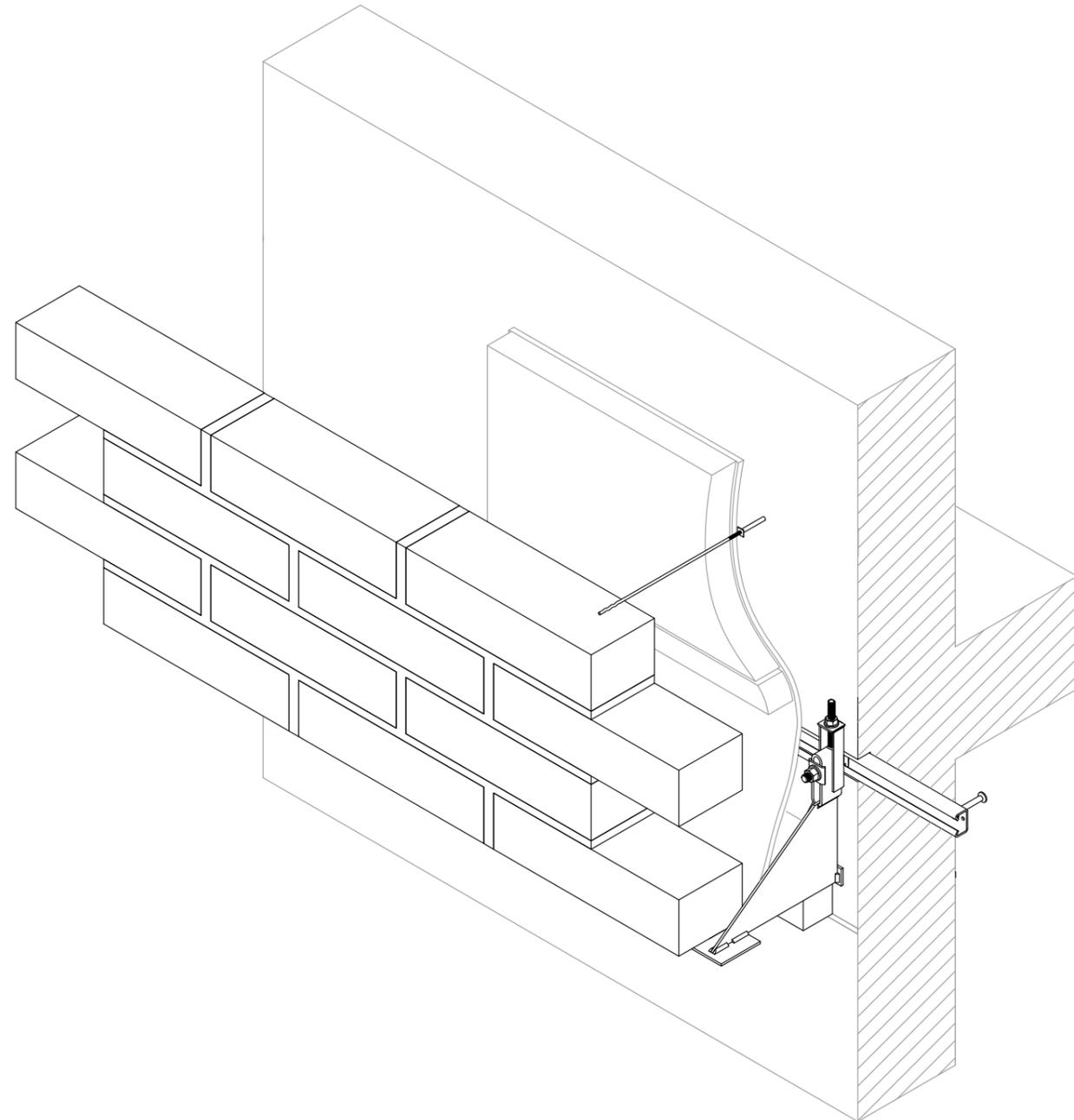
Brickwork Support Brackets



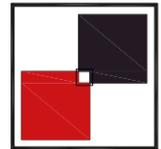
HRST-C
Wall Restraining Tie



FIX-U
Support Bracket



Legend	
1	Restraint Tie
2	Bracket Body
3	Cast-in Channel
4	Brickwork Tile



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Title : Brickwork Support System - FIX-U with Cast-in Channel - Concrete Substrate

Drawing No. HAZCD-FIX-BR-02

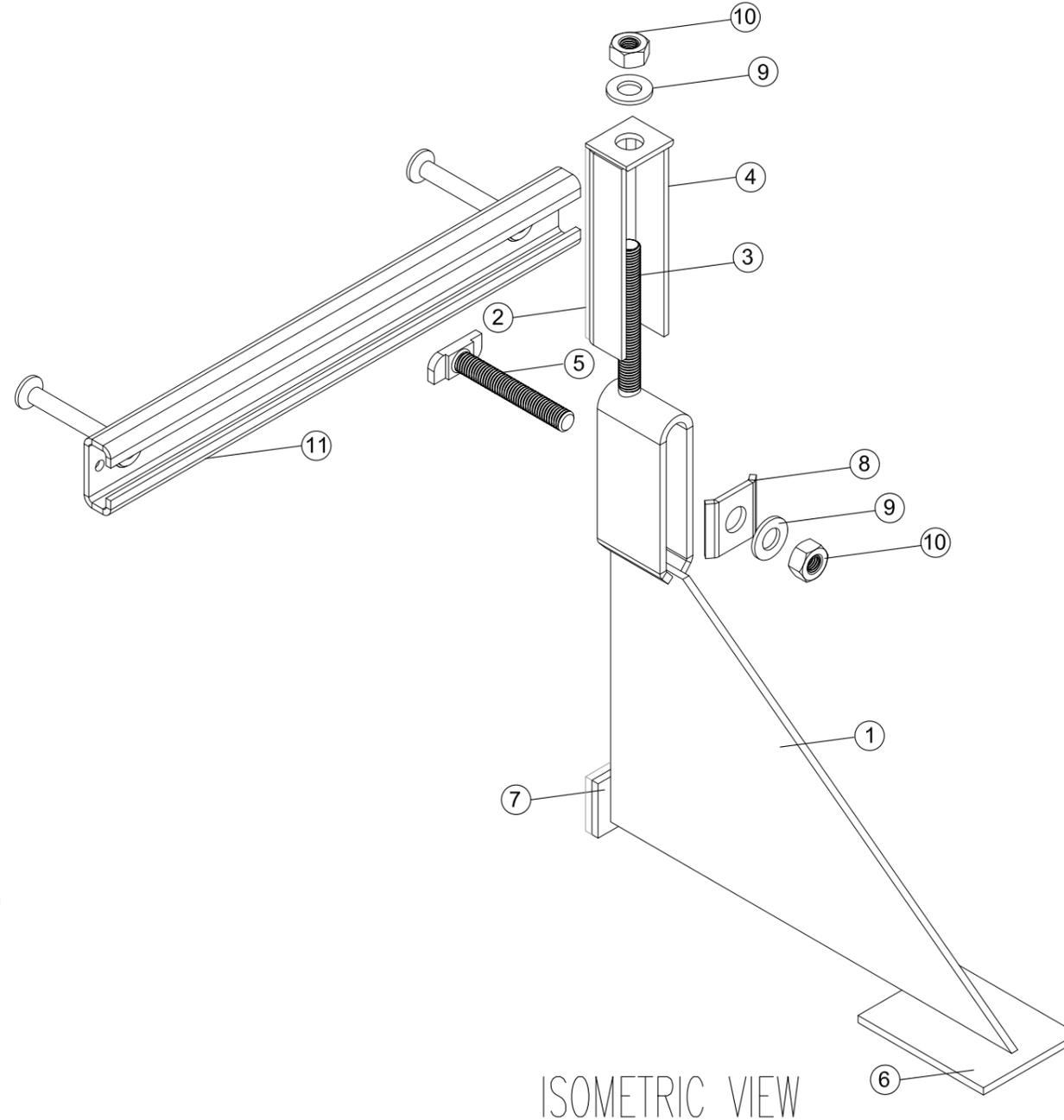
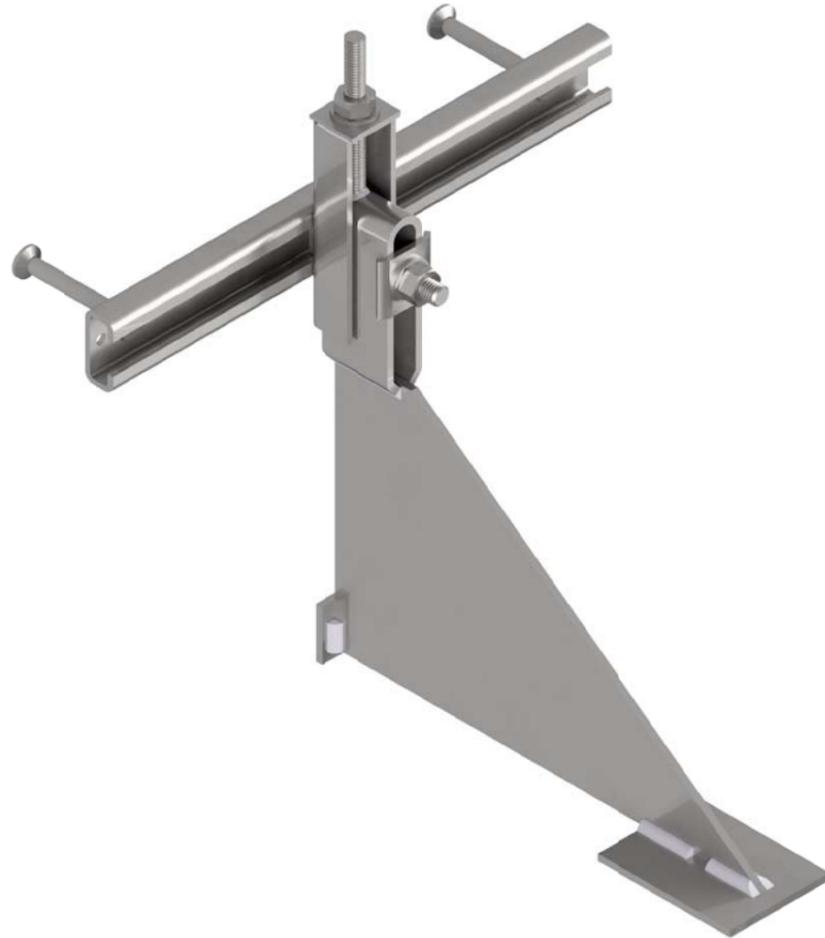
Series Concept Drawings - Brickwork Fixing System - FIX Support Anchors

Revision 01 scale As Shown

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FIX-U

System Components



Legend	
1	Bracket Body
2	Thermal Break
3	Threaded Rod
4	Adjustable Profile
5	T Bolt
6	Support Plate
7	Welded Pressure Plate
8	Lock Washer
9	Round Washer
10	Nut
11	Cast-in Channel



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Title :		Brickwork Support System - FIX-U System Components		
Drawing No.	HAZCD-FIX-BR-03			
Series	Concept Drawings - Brickwork Fixing System - FIX Support Anchors			
Revision	01	scale	As Shown	Page : 03/37

Product Rang

Load Bearing Single Brackets



FIX-U



FIX-UV



FIX-UT



FIX-P



FIX-PV



FIX-W

Load Bearing Brackets with Continuous welded angle



FIX-F



FIX-FV



HMCS

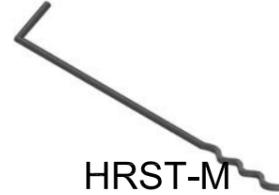


HMCS-SB

Wall Restraining Ties



HRST-C



HRST-M



HWT-M



HMS-AV

Accessories



HMS-E



HMS-U



HMS-I

Lintel Supports



FIX-S



FIX-SV



HLS-ES

Accessories



HMS-HK



HMS-GS



HMS-ES



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Title : Brickwork Support System- Product Range

Drawing No. HAZCD-FIX-BR-04

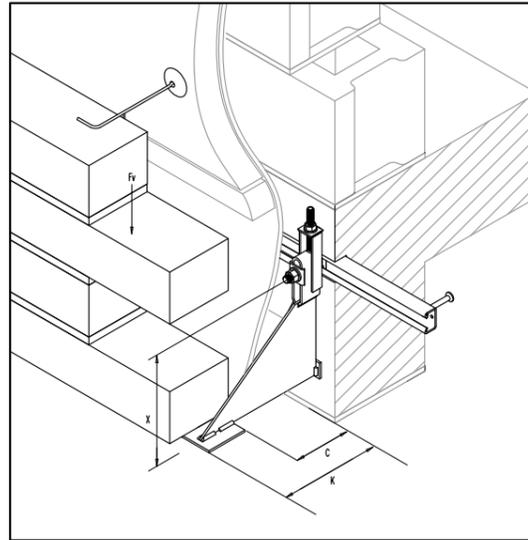
Series Concept Drawings - Brickwork Fixing System - FIX Support Anchors

Revision 01 scale As Shown

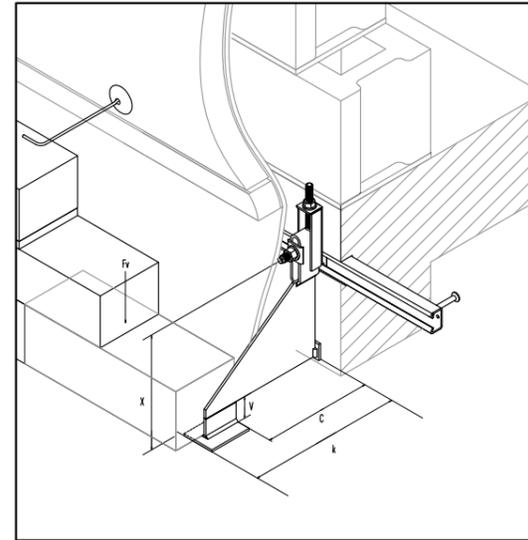
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Single Bracket FIX-U/ UV/UT

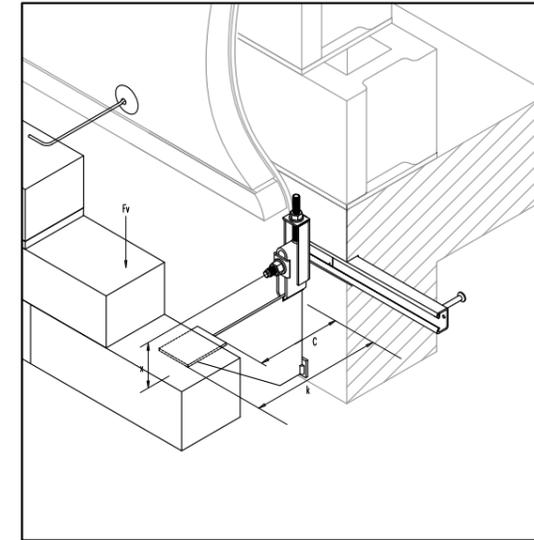
This brickwork support bracket is manufactured with a single welded plate which is used for installation of each brick block independently.



The FIX-U bracket is used for straight and curved elevation brick installation.

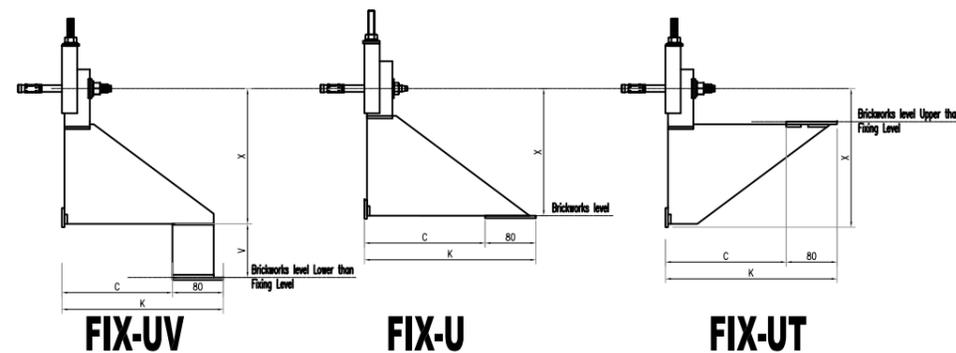


The FIX-UV bracket is used for installing bricks with a lower level support than the fixing level on the substrate.



The FIX-UT bracket is used for installing bricks at high joint level.

Types of FIX-U :



Product Code Description

FIX-U-3.5/150

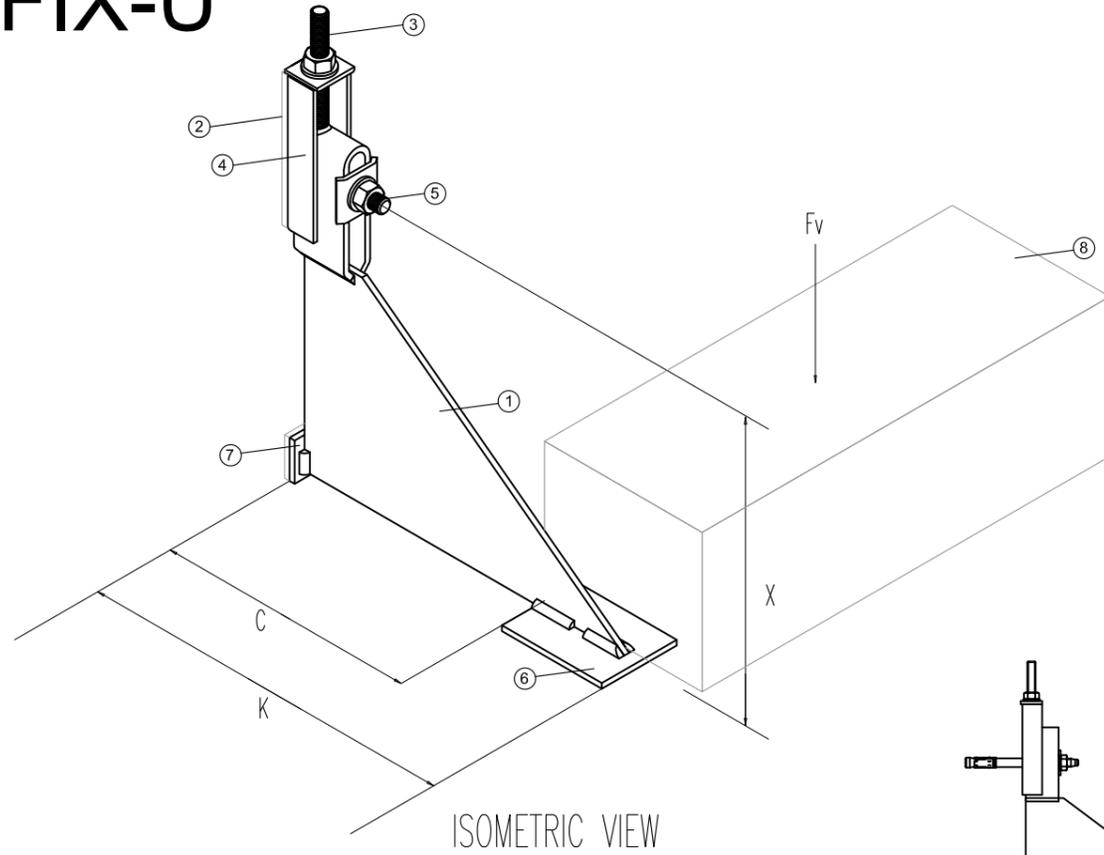
Projection (mm)
Dead Load (KN)
Type (U/UV/UT)



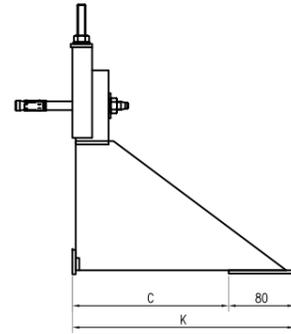
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Title : Brickwork Support System - Single Bracket - FIX-U/UV/UT Applications				
Drawing No.	HAZCD-FIX-BR-05			
Series	Concept Drawings - Brickwork Fixing System - FIX Support Anchors			
Revision	01	scale	As Shown	Page : 05/37

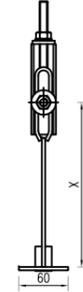
FIX-U



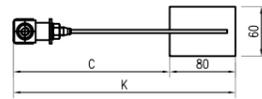
ISOMETRIC VIEW



Elevation View



Side View



Plan View

Legend	
1	Bracket Body
2	Thermal Break
3	Threaded Rod
4	Adjustable Profile
5	Anchor Bolt
6	Support Plate
7	Welded Pressure Plate
8	Brickwork Tile

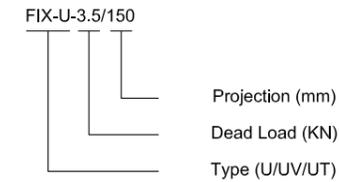
Product Code	Technical Details					
	Projection+/-15mm K(mm)	Load Range Fv(KN)	Cavity+/-15mm C(mm)	X Size X (mm)	Bolt Size E.b.(mm)	Cast-in Channel T Head Bolt Cl(mm)

FIX-U-3.5/150	150	3.5	60	150	M12X135	38/17- M12X70
FIX-U-3.5/170	170		80	150		
FIX-U-3.5/190	190		100	150		
FIX-U-3.5/210	210		120	150		
FIX-U-3.5/230	230		140	175		
FIX-U-3.5/250	250		160	175		
FIX-U-3.5/270	270		180	200		
FIX-U-3.5/290	290		200	200		
FIX-U-3.5/310	310		220	220		
FIX-U-3.5/330	330		240	240		
FIX-U-3.5/350	350		260	260		

FIX-U-7.0/150	150	7.0	60	200	M12X135	49/30- M16X80
FIX-U-7.0/170	170		80	200		
FIX-U-7.0/190	190		100	200		
FIX-U-7.0/210	210		120	200		
FIX-U-7.0/230	230		140	250		
FIX-U-7.0/250	250		160	250		
FIX-U-7.0/270	270		180	270		
FIX-U-7.0/290	290		200	290		
FIX-U-7.0/310	310		220	310		
FIX-U-7.0/330	330		240	330		
FIX-U-7.0/350	350		260	350		

FIX-U-10.5/150	150	10.5	60	250	M16X145	54/33- M16X80
FIX-U-10.5/170	170		80	250		
FIX-U-10.5/190	190		100	250		
FIX-U-10.5/210	210		120	250		
FIX-U-10.5/230	230		140	300		
FIX-U-10.5/250	250		160	300		
FIX-U-10.5/270	270		180	320		
FIX-U-10.5/290	290		200	350		
FIX-U-10.5/310	310		220	360		
FIX-U-10.5/330	330		240	380		
FIX-U-10.5/350	350		260	400		

Product Code Description



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Title : Brickwork Support System - Single Bracket - FIX-U Specification

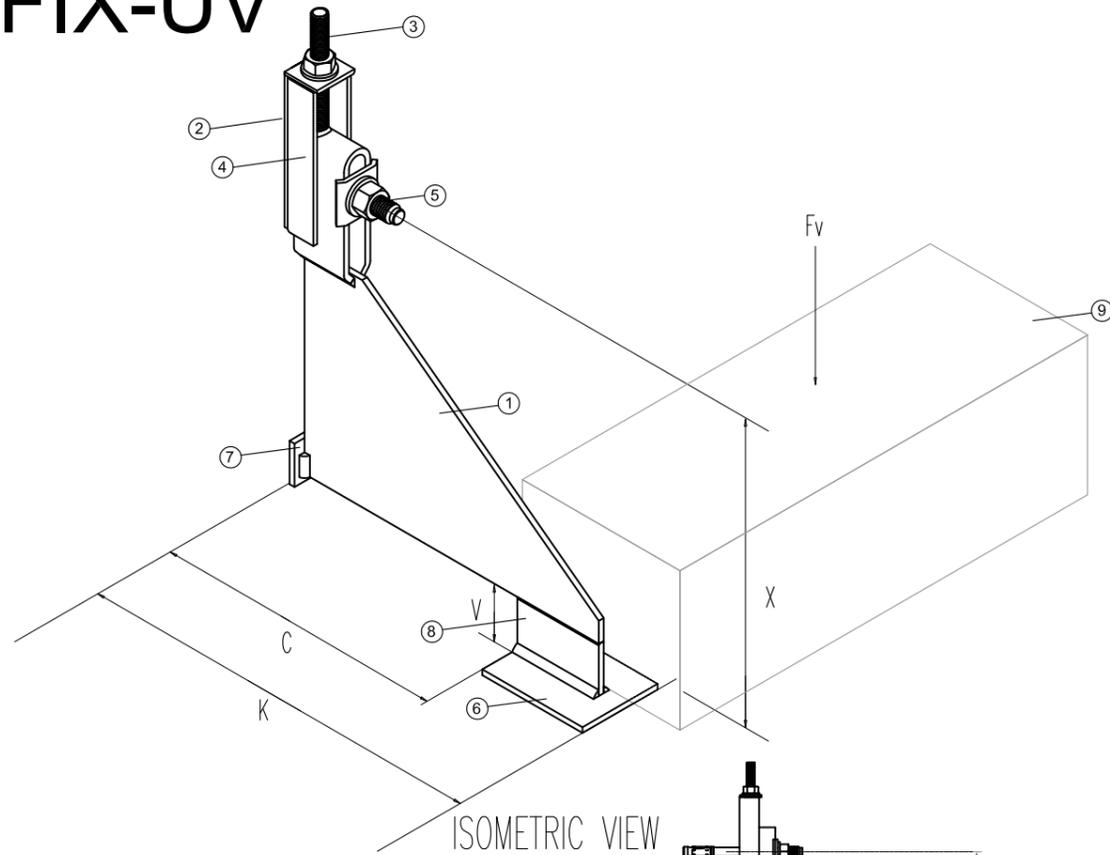
Drawing No. HAZCD-FIX-BR-06

Series Concept Drawings - Brickwork Fixing System - FIX Support Anchors

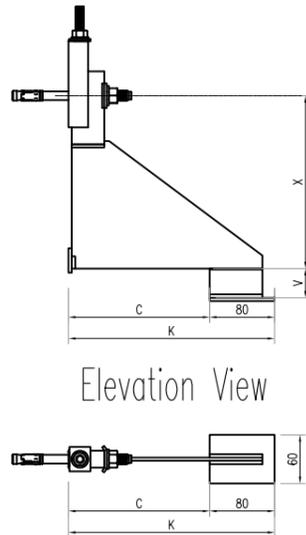
Revision 01 scale As Shown

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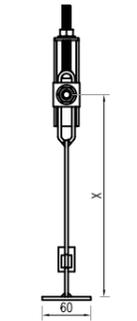
FIX-UV



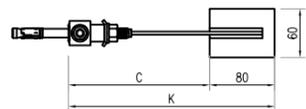
ISOMETRIC VIEW



Elevation View



Side View

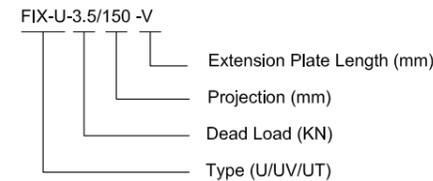


Plan View

Legend	
1	Bracket Body
2	Thermal Break
3	Threaded Rod
4	Adjustable Profile
5	Anchor Bolt
6	Support Plate
7	Welded Pressure Plate
8	Extension plate
9	Brickwork Tile

Product Code	Technical Details						
	Projection+/-15mm K(mm)	Load Range Fv(KN)	Cavity+/-15mm C(mm)	X Size X (mm)	Bolt Size E.b.(mm)	Cast-in Channel T Head Bolt Cl(mm)	Welded Extension Plate Vl(mm)
FIX-UV-3.5/150	150	3.5	60	150	M12X135	38/17- M12X70	Determined according to application detail
FIX-UV-3.5/170	170		80	150			
FIX-UV-3.5/190	190		100	150			
FIX-UV-3.5/210	210		120	150			
FIX-UV-3.5/230	230		140	175			
FIX-UV-3.5/250	250		160	175			
FIX-UV-3.5/270	270		180	200			
FIX-UV-3.5/290	290		200	200			
FIX-UV-3.5/310	310		220	220			
FIX-UV-3.5/330	330		240	240			
FIX-UV-3.5/350	350	260	260				
FIX-UV-7.0/150	150	7.0	60	200	M12X135	49/30- M16X80	Determined according to application detail
FIX-UV-7.0/170	170		80	200			
FIX-UV-7.0/190	190		100	200			
FIX-UV-7.0/210	210		120	200			
FIX-UV-7.0/230	230		140	250			
FIX-UV-7.0/250	250		160	250			
FIX-UV-7.0/270	270		180	270			
FIX-UV-7.0/290	290		200	290			
FIX-UV-7.0/310	310		220	310			
FIX-UV-7.0/330	330		240	330			
FIX-UV-7.0/350	350	260	350				
FIX-UV-10.5/150	150	10.5	60	250	M16X145	54/33- M16X80	Determined according to application detail
FIX-UV-10.5/170	170		80	250			
FIX-UV-10.5/190	190		100	250			
FIX-UV-10.5/210	210		120	250			
FIX-UV-10.5/230	230		140	300			
FIX-UV-10.5/250	250		160	300			
FIX-UV-10.5/270	270		180	320			
FIX-UV-10.5/290	290		200	350			
FIX-UV-10.5/310	310		220	360			
FIX-UV-10.5/330	330		240	380			
FIX-UV-10.5/350	350	260	400				

Product Code Description



Title : Brickwork Support System - FIX-UV Specification

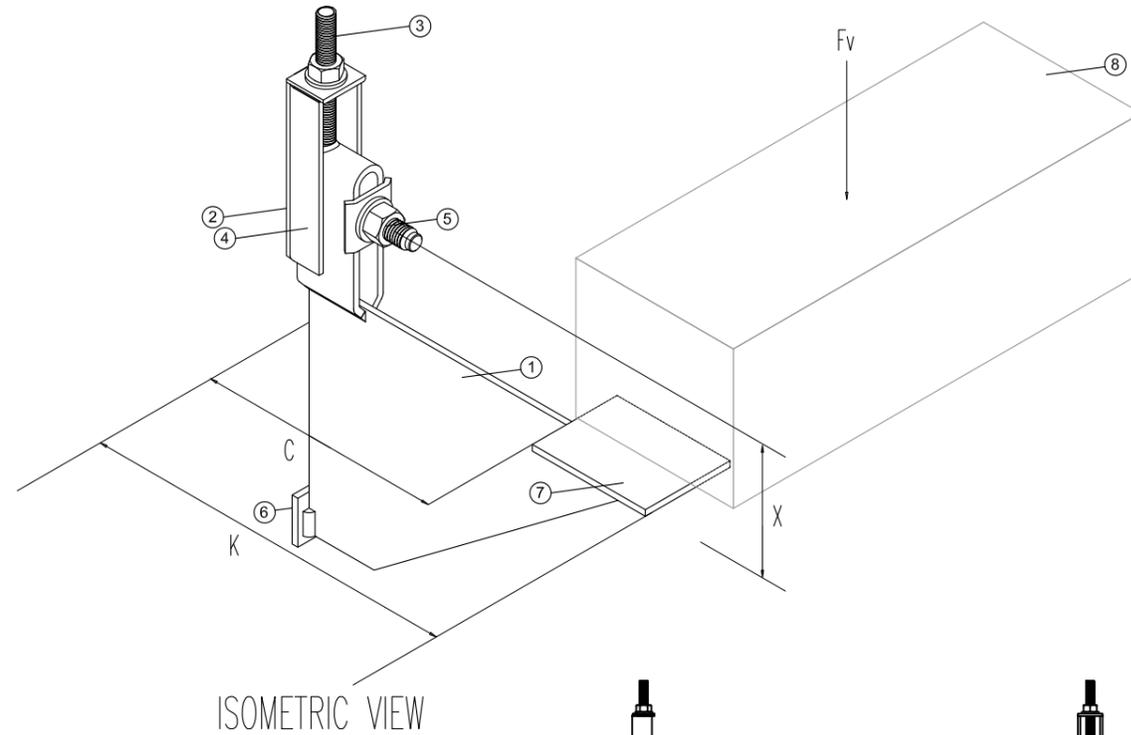
Drawing No. HAZCD-FIX-BR-07

Series Concept Drawings - Brickwork Fixing System - FIX Support Anchors

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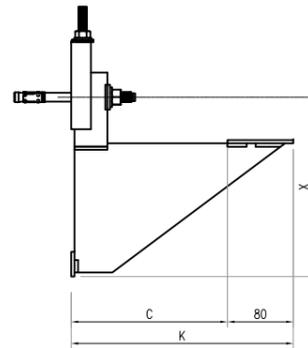
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FIX-UT

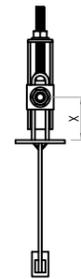


ISOMETRIC VIEW

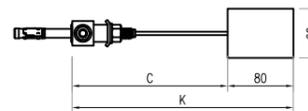
Legend	
1	Bracket Body
2	Thermal Break
3	Threaded Rod
4	Adjustable Profile
5	Anchor Bolt
6	Welded Pressure Plate
7	Support Plate
8	Brickwork Tile



Elevation View



Side View



Plan View

Product Code	Technical Details				
	Projection+/-15mm K(mm)	Load Range Fv(KN)	Cavity+/-15mm C(mm)	X Size X (mm)	Bolt Size E.b.(mm)

FIX-UT-3.5/150	150	3.5	60	150	M12X135	38/17- M12X70
FIX-UT-3.5/170	170		80	150		
FIX-UT-3.5/190	190		100	150		
FIX-UT-3.5/210	210		120	150		
FIX-UT-3.5/230	230		140	175		
FIX-UT-3.5/250	250		160	175		
FIX-UT-3.5/270	270		180	200		
FIX-UT-3.5/290	290		200	200		
FIX-UT-3.5/310	310		220	220		
FIX-UT-3.5/330	330		240	240		
FIX-UT-3.5/350	350	260	260			

FIX-UT-7.0/150	150	7.0	60	200	M12X135	49/30- M16X80
FIX-UT-7.0/170	170		80	200		
FIX-UT-7.0/190	190		100	200		
FIX-UT-7.0/210	210		120	200		
FIX-UT-7.0/230	230		140	250		
FIX-UT-7.0/250	250		160	250		
FIX-UT-7.0/270	270		180	270		
FIX-UT-7.0/290	290		200	290		
FIX-UT-7.0/310	310		220	310		
FIX-UT-7.0/330	330		240	330		
FIX-UT-7.0/350	350	260	350			

FIX-UT-10.5/150	150	10.5	60	250	M16X145	54/33- M16X80
FIX-UT-10.5/170	170		80	250		
FIX-UT-10.5/190	190		100	250		
FIX-UT-10.5/210	210		120	250		
FIX-UT-10.5/230	230		140	300		
FIX-UT-10.5/250	250		160	300		
FIX-UT-10.5/270	270		180	320		
FIX-UT-10.5/290	290		200	350		
FIX-UT-10.5/310	310		220	360		
FIX-UT-10.5/330	330		240	380		
FIX-UT-10.5/350	350	260	400			

Product Code Description

FIX-UT-3.5/150



Projection (mm)

Dead Load (KN)

Type (U/UV/UT)



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Title : Brickwork Support System - FIX-UT Specification

Drawing No. HAZCD-FIX-BR-08

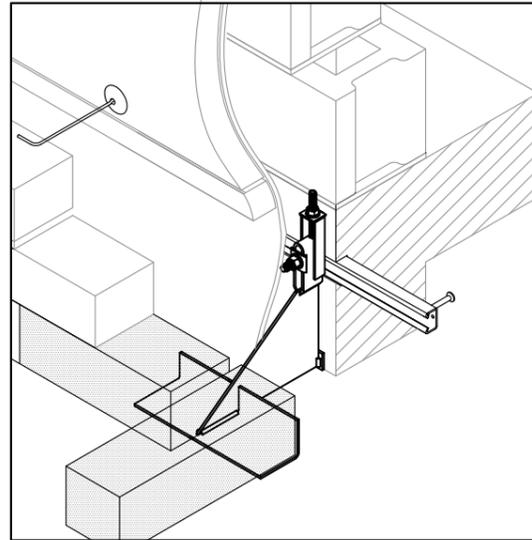
Series Concept Drawings - Brickwork Fixing System - FIX Support Anchors

Revision 01 scale As Shown

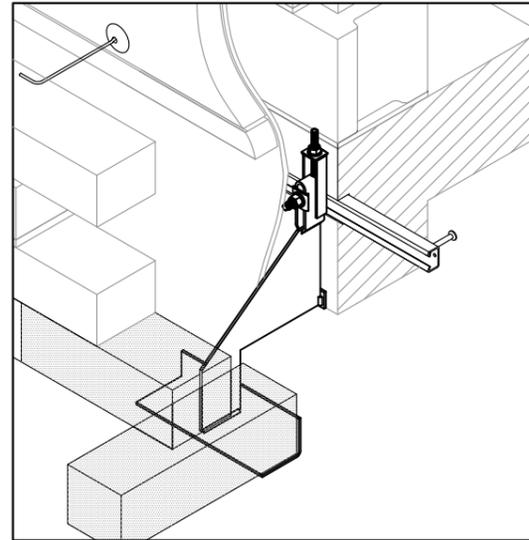
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Single Bracket FIX-P/ PV/ W

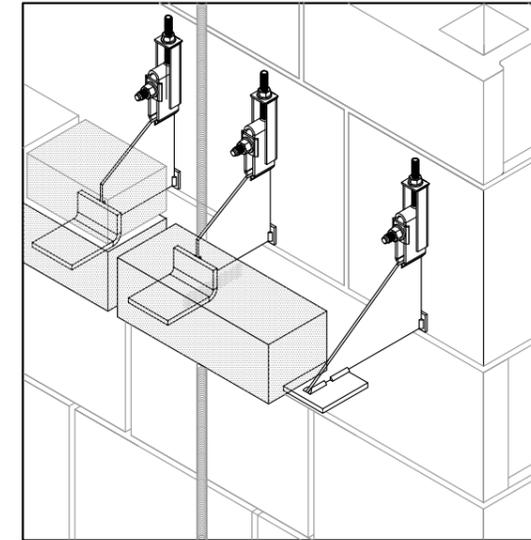
This Type of brick support bracket has a wide welded support support angle for more secure positioning of the brick blocks. the width of the welded Support is determined according to the application detail.



The FIX-P bracket is used for installing bricks in edge situations, such as on inside corners or vertical joints.

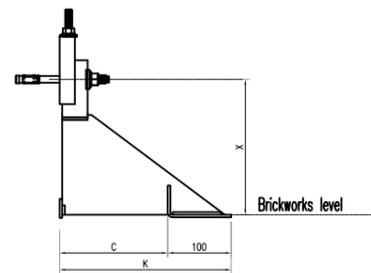


The FIX-PV bracket is used for installing bricks in edge situations, with a lower offset support level than the fixing level on the substrate.

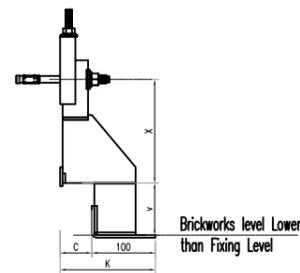


The FIX-W bracket is used for installing the last brick on a row at the end of a wall. the brackets are primarily used in the edge zones and where there are expansion joints.

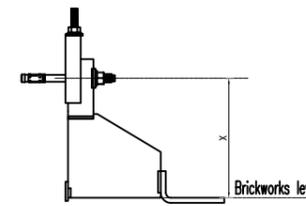
Types of FIX-P :



FIX-P



FIX-PV



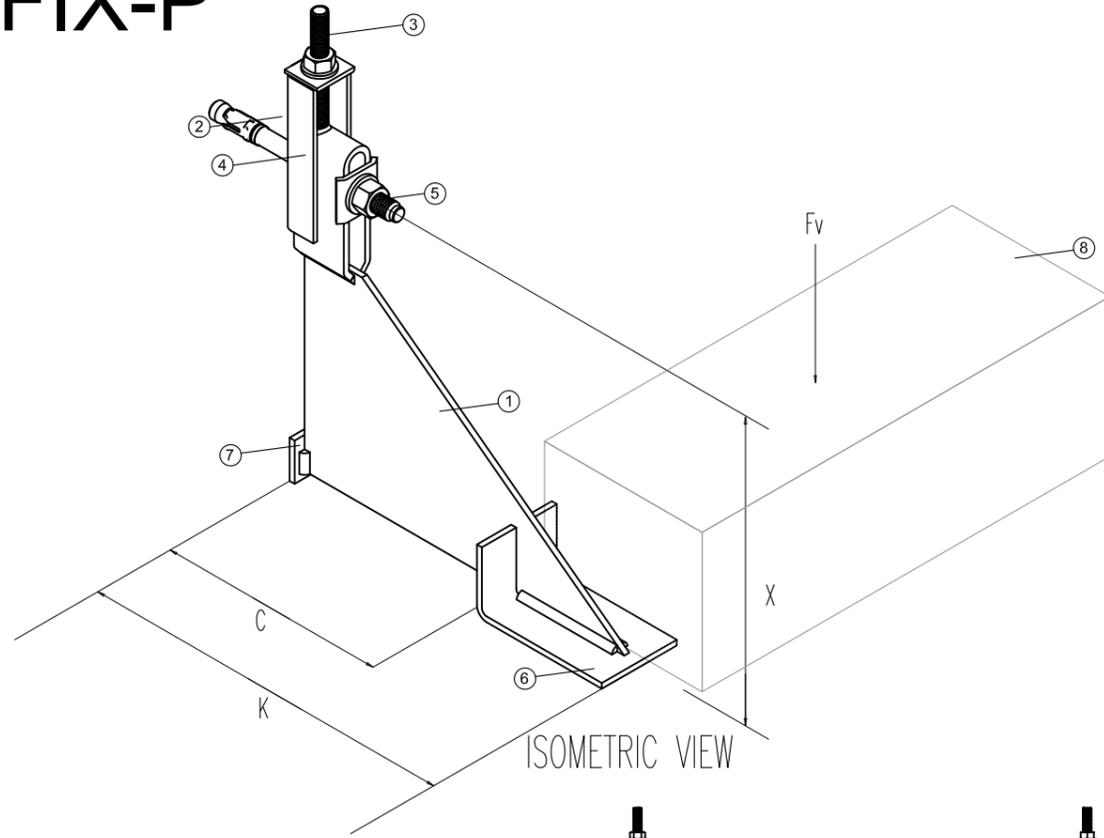
FIX-W



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Title : Brickwork Support System - Single Bracket - FIX-P/ PV/ W Applications				
Drawing No.	HAZCD-FIX-BR-09			
Series	Concept Drawings - Brickwork Fixing System - FIX Support Anchors			
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FIX-P

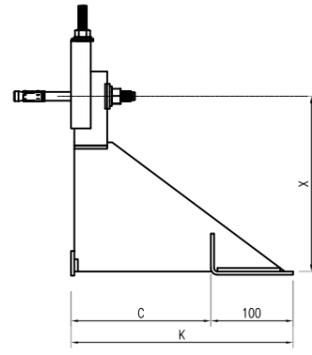


Product Code	Technical Details						
	Projection+/-15mm K(mm)	Load Range Fv(KN)	Cavity+/-15mm C(mm)	X Size X (mm)	Bolt Size E.b.(mm)	Cast-in Channel T Head Bolt Cl(mm)	Welded Support Plate L1/L2(mm)
FIX-P-3.5/150	150	3.5	60	150	M12X135	38/17- M12X70	Determined according to application detail
FIX-P-3.5/170	170						
FIX-P-3.5/190	190						
FIX-P-3.5/210	210						
FIX-P-3.5/230	230						
FIX-P-3.5/250	250						
FIX-P-3.5/270	270						
FIX-P-3.5/290	290						
FIX-P-3.5/310	310						
FIX-P-3.5/330	330						
FIX-P-3.5/350	350						

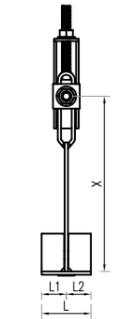
FIX-P-7.0/150	150	7.0	60	200	M12X135	49/30- M16X80	Determined according to application detail
FIX-P-7.0/170	170						
FIX-P-7.0/190	190						
FIX-P-7.0/210	210						
FIX-P-7.0/230	230						
FIX-P-7.0/250	250						
FIX-P-7.0/270	270						
FIX-P-7.0/290	290						
FIX-P-7.0/310	310						
FIX-P-7.0/330	330						
FIX-P-7.0/350	350						

FIX-P-10.5/150	150	10.5	60	250	M16X145	54/33- M16X80	Determined according to application detail
FIX-P-10.5/170	170						
FIX-P-10.5/190	190						
FIX-P-10.5/210	210						
FIX-P-10.5/230	230						
FIX-P-10.5/250	250						
FIX-P-10.5/270	270						
FIX-P-10.5/290	290						
FIX-P-10.5/310	310						
FIX-P-10.5/330	330						
FIX-P-10.5/350	350						

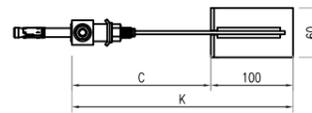
Legend	
1	Bracket Body
2	Thermal Break
3	Threaded Rod
4	Adjustable Profile
5	Anchor Bolt
6	Support Plate
7	Welded Pressure Plate
8	Brickwork Tile



Elevation View

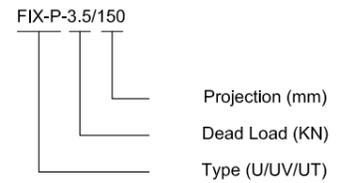


Side View



Plan View

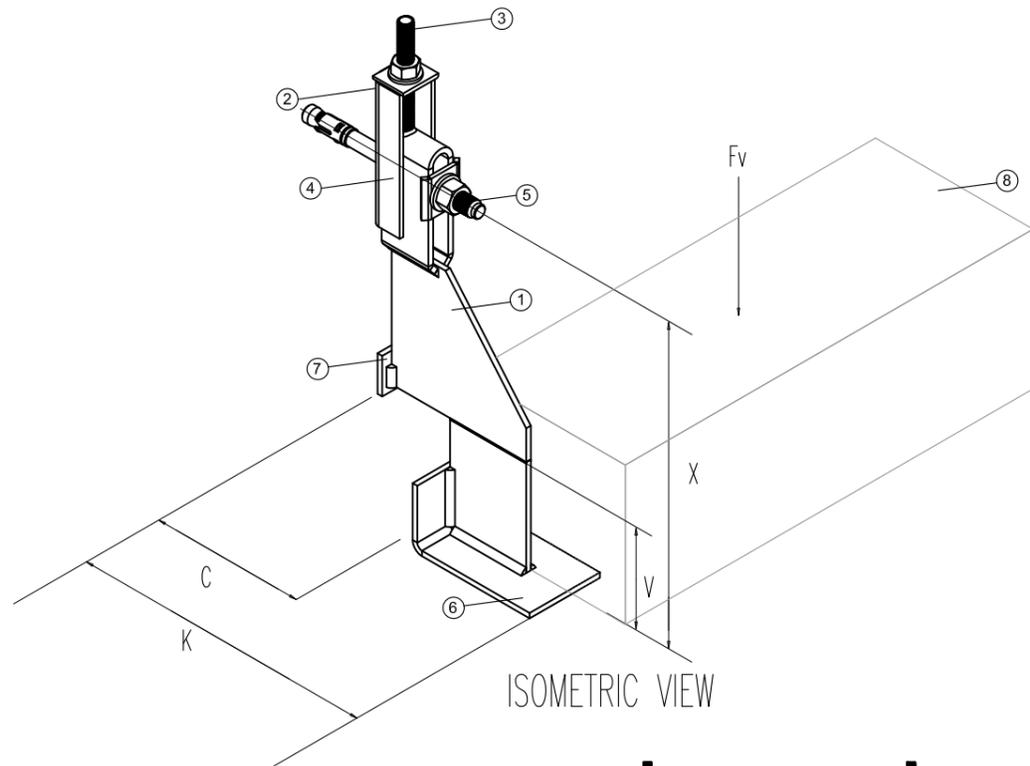
Product Code Description



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Title :		Brickwork Support System - FIX-P Specification		
Drawing No.	HAZCD-FIX-BR-10			
Series	Concept Drawings - Brickwork Fixing System - FIX Support Anchors			
Revision	01	scale	As Shown	Page : 10/37

FIX-PV

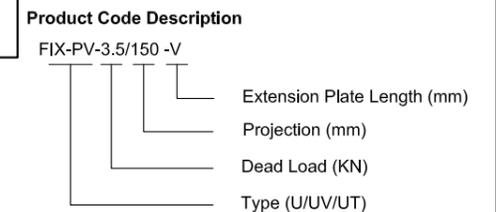
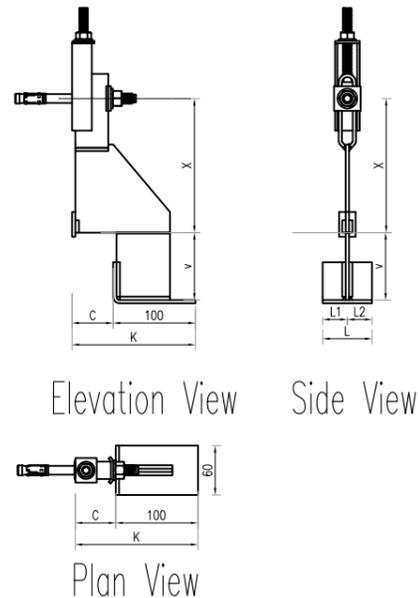


Product Code	Technical Details						Welded Support Plate L1/L2(mm)
	Projection+/-15mm K(mm)	Load Range Fv(KN)	Cavity+/-15mm C(mm)	X Size X (mm)	Bolt Size E.b.(mm)	Cast-in Channel Head Bolt Cl(mm)	
FIX-PV-3.5/150	150	3.5	60	150	M12X135	38/17- M12X70	Determined according to application detail
FIX-PV-3.5/170	170		80	150			
FIX-PV-3.5/190	190		100	150			
FIX-PV-3.5/210	210		120	150			
FIX-PV-3.5/230	230		140	175			
FIX-PV-3.5/250	250		160	175			
FIX-PV-3.5/270	270		180	200			
FIX-PV-3.5/290	290		200	200			
FIX-PV-3.5/310	310		220	220			
FIX-PV-3.5/330	330		240	240			
FIX-PV-3.5/350	350		260	260			

FIX-PV-7.0/150	150	7.0	60	200	M12X135	49/30- M16X80	Determined according to application detail
FIX-PV-7.0/170	170		80	200			
FIX-PV-7.0/190	190		100	200			
FIX-PV-7.0/210	210		120	200			
FIX-PV-7.0/230	230		140	250			
FIX-PV-7.0/250	250		160	250			
FIX-PV-7.0/270	270		180	270			
FIX-PV-7.0/290	290		200	290			
FIX-PV-7.0/310	310		220	310			
FIX-PV-7.0/330	330		240	330			
FIX-PV-7.0/350	350		260	350			

FIX-PV-10.5/150	150	10.5	60	250	M16X145	54/33- M16X80	Determined according to application detail
FIX-PV-10.5/170	170		80	250			
FIX-PV-10.5/190	190		100	250			
FIX-PV-10.5/210	210		120	250			
FIX-PV-10.5/230	230		140	300			
FIX-PV-10.5/250	250		160	300			
FIX-PV-10.5/270	270		180	320			
FIX-PV-10.5/290	290		200	350			
FIX-PV-10.5/310	310		220	360			
FIX-PV-10.5/330	330		240	380			
FIX-PV-10.5/350	350		260	400			

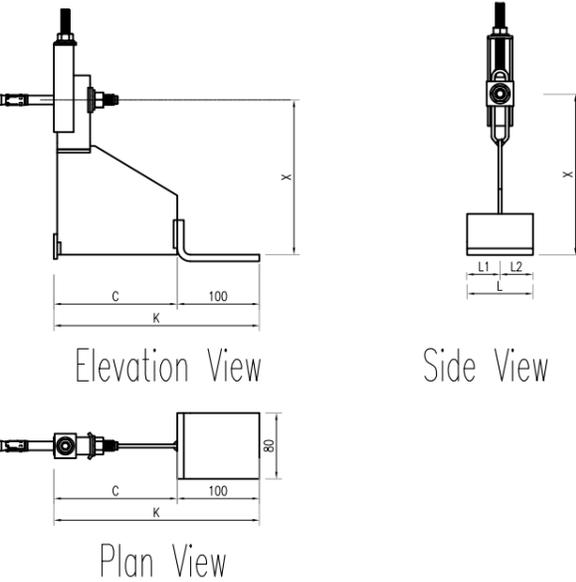
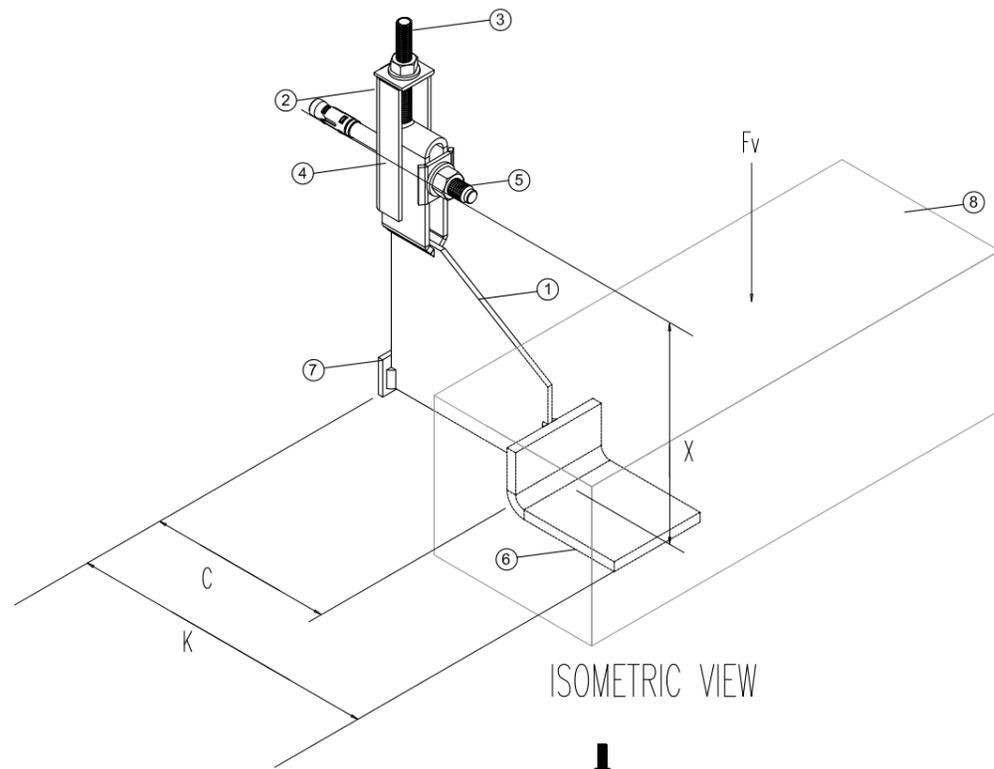
Legend	
1	Bracket Body
2	Thermal Break
3	Threaded Rod
4	Adjustable Profile
5	Anchor Bolt
6	Support Plate
7	Welded Pressure Plate
8	Brickwork Tile



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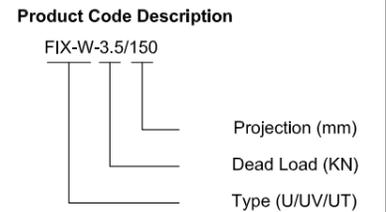
Title :		Brickwork Support System - FIX-PV Specification		
Drawing No.		HAZCD-FIX-BR-11		
Series		Concept Drawings - Brickwork Fixing System - FIX Support Anchors		
Revision	01	scale	As Shown	Page : 11/37

FIX-W



Legend	
1	Bracket Body
2	Thermal Break
3	Threaded Rod
4	Adjustable Profile
5	Anchor Bolt
6	Support Plate
7	Welded Pressure Plate
8	Brickwork Tile

Product Code	Technical Details						
	Projection+/-15mm K(mm)	Load Range Fv(KN)	Cavity+/-15mm C(mm)	X Size X (mm)	Bolt Size E.b.(mm)	Cast-In Channel T Head Bolt Cl(mm)	Welded Support Plate L1/L2(mm)
FIX-W-3.5/150	150	3.5	60	150	M12X135	38/17- M12X70	Determined according to application detail
FIX-W-3.5/170	170		80	150			
FIX-W-3.5/190	190		100	150			
FIX-W-3.5/210	210		120	150			
FIX-W-3.5/230	230		140	175			
FIX-W-3.5/250	250		160	175			
FIX-W-3.5/270	270		180	200			
FIX-W-3.5/290	290		200	200			
FIX-W-3.5/310	310		220	220			
FIX-W-3.5/330	330		240	240			
FIX-W-3.5/350	350		260	260			
FIX-W-7.0/150	150	7.0	60	200	M12X135	49/30- M16X80	Determined according to application detail
FIX-W-7.0/170	170		80	200			
FIX-W-7.0/190	190		100	200			
FIX-W-7.0/210	210		120	200			
FIX-W-7.0/230	230		140	250			
FIX-W-7.0/250	250		160	250			
FIX-W-7.0/270	270		180	270			
FIX-W-7.0/290	290		200	290			
FIX-W-7.0/310	310		220	310			
FIX-W-7.0/330	330		240	330			
FIX-W-7.0/350	350		260	350			

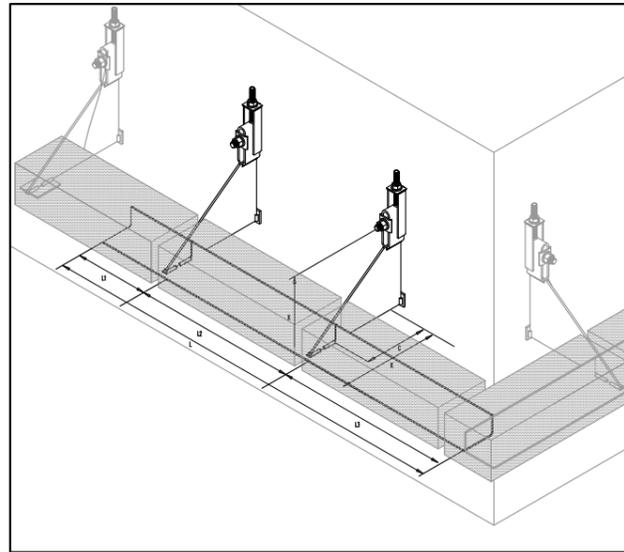


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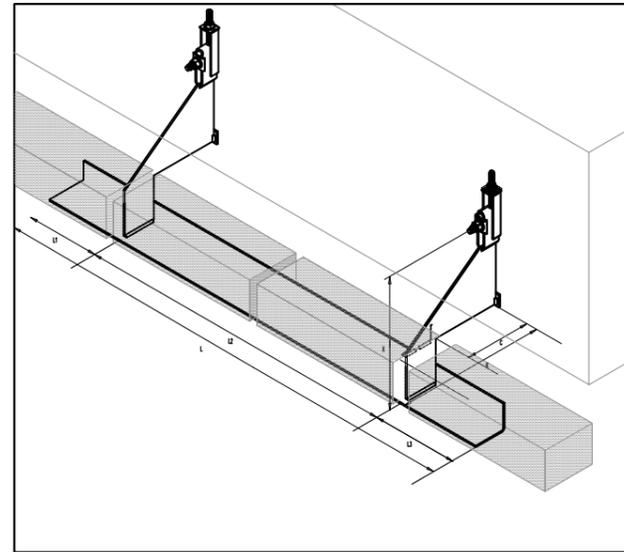
Title : Brickwork Support System - FIX-W Specification				
Drawing No.	HAZCD-FIX-BR-12			
Series	Concept Drawings - Brickwork Fixing System - FIX Support Anchors			
Revision	01	scale	As Shown	Page : 12/37

Single Bracket FIX-F/ FV/ FSC / FDC

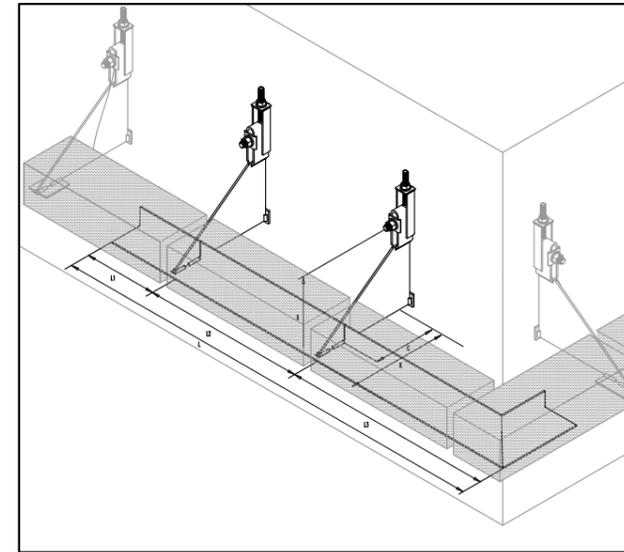
This Type of brick support anchors have a continues welded support. With this, brick cladding can be made along the length of the continues welded L shaped plate. The length of the L plate can be designed according to the application details.



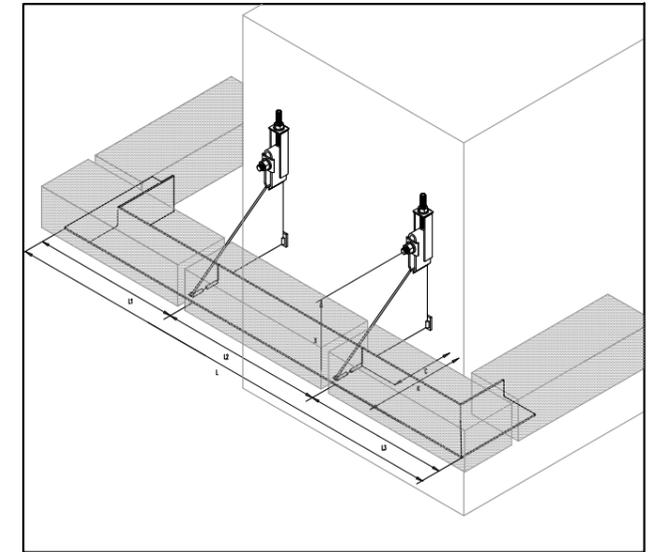
The FIX-F bracket is used to support visible or hidden openings or outside corners with or without vertical joint .



The FIX-FV bracket is necessary where the support offset level is lower than the level of fixing on the substrate.

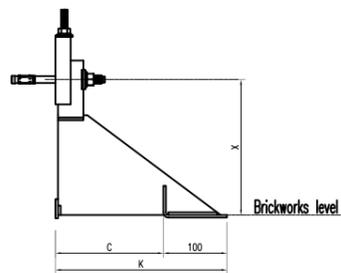


The FIX-FSC bracket is used to allow easy and secure installation of bricks at corner turns .

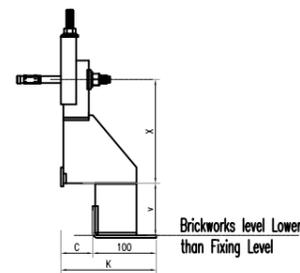


The FIX-FDC bracket is used to allow easy and secure installation of bricks at corner turns .

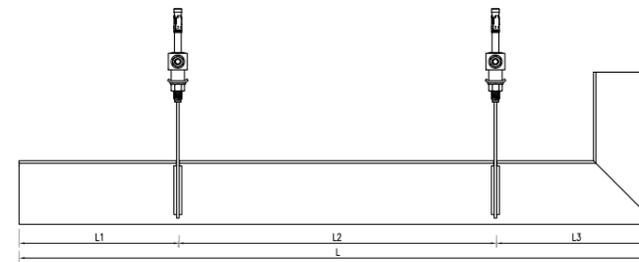
Types of FIX-F :



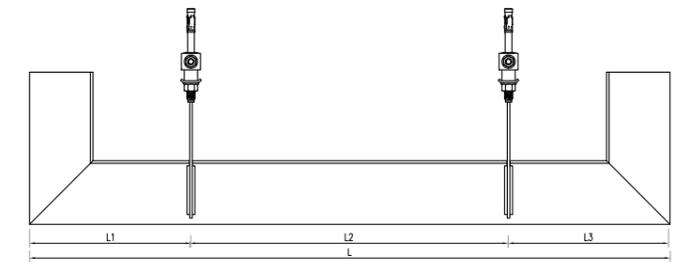
FIX-F (Side view)



FIX-FV (Side view)



FIX-FSC (Plan view)



FIX-FDC (Plan view)



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Title : Brickwork Support System - Single Bracket - FIX-F / FV / FSC / FDC Applications

Drawing No. HAZCD-FIX-BR-13

Series Concept Drawings - Brickwork Fixing System - FIX Support Anchors

Revision

01

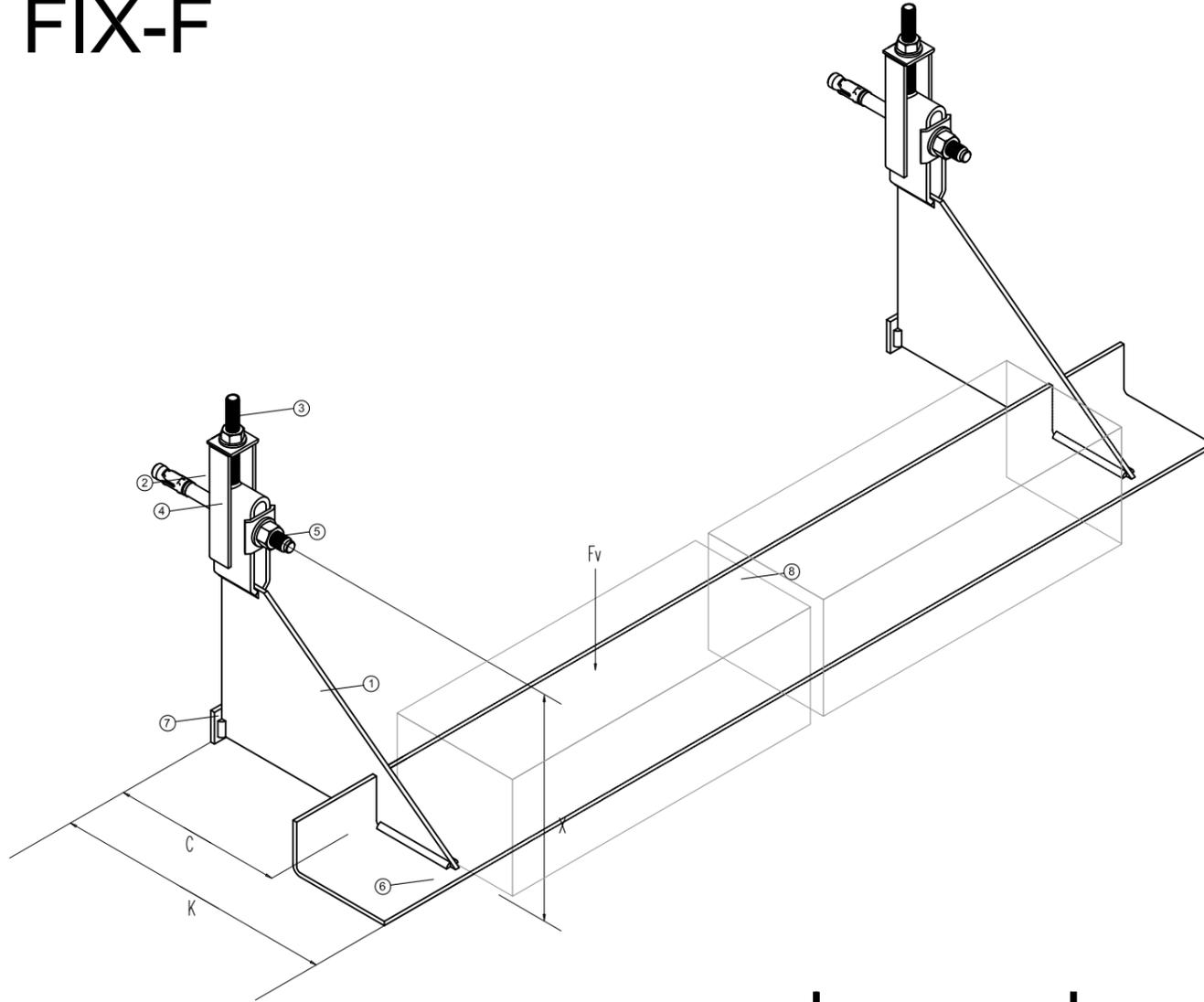
scale

As Shown

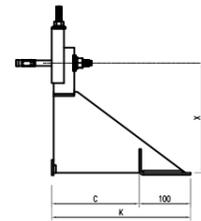
Page :

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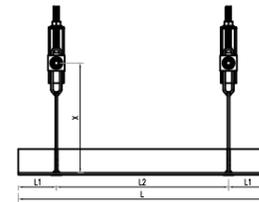
FIX-F



ISOMETRIC VIEW



Elevation View



Side View

Legend	
1	Bracket Body
2	Thermal Break
3	Threaded Rod
4	Adjustable Profile
5	Anchor Bolt
6	Support Plate
7	Welded Pressure Plate
8	Brickwork Tile

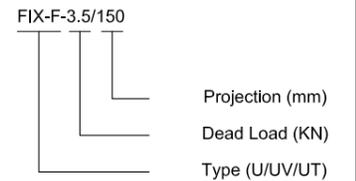
Product Code	Technical Details						
	Projection+/-15mm K(mm)	Load Range Fv(KN)	Cavity+/-15mm C(mm)	X Size X (mm)	Bolt Size E.b.(mm)	Cast-in Channel T Head Bolt Cl(mm)	Welded Support Plate L1/L2(mm)

FIX-F-3.5/150	150	3.5	60	150	M12X135	38/17- M12X70	Determined according to application detail
FIX-F-3.5/170	170		80	150			
FIX-F-3.5/190	190		100	150			
FIX-F-3.5/210	210		120	150			
FIX-F-3.5/230	230		140	175			
FIX-F-3.5/250	250		160	175			
FIX-F-3.5/270	270		180	180			
FIX-F-3.5/290	290		200	200			
FIX-F-3.5/310	310		220	220			
FIX-F-3.5/330	330		240	240			
FIX-F-3.5/350	350		260	260			

FIX-F-7.0/150	150	7.0	60	200	M12X135	49/30- M16X80	Determined according to application detail
FIX-F-7.0/170	170		80	200			
FIX-F-7.0/190	190		100	200			
FIX-F-7.0/210	210		120	200			
FIX-F-7.0/230	230		140	250			
FIX-F-7.0/250	250		160	250			
FIX-F-7.0/270	270		180	270			
FIX-F-7.0/290	290		200	290			
FIX-F-7.0/310	310		220	310			
FIX-F-7.0/330	330		240	330			
FIX-F-7.0/350	350		260	350			

FIX-F-10.5/150	150	10.5	60	250	M16X145	54/33- M16X80	Determined according to application detail
FIX-F-10.5/170	170		80	250			
FIX-F-10.5/190	190		100	250			
FIX-F-10.5/210	210		120	250			
FIX-F-10.5/230	230		140	300			
FIX-F-10.5/250	250		160	300			
FIX-F-10.5/270	270		180	320			
FIX-F-10.5/290	290		200	350			
FIX-F-10.5/310	310		220	360			
FIX-F-10.5/330	330		240	380			
FIX-F-10.5/350	350		260	400			

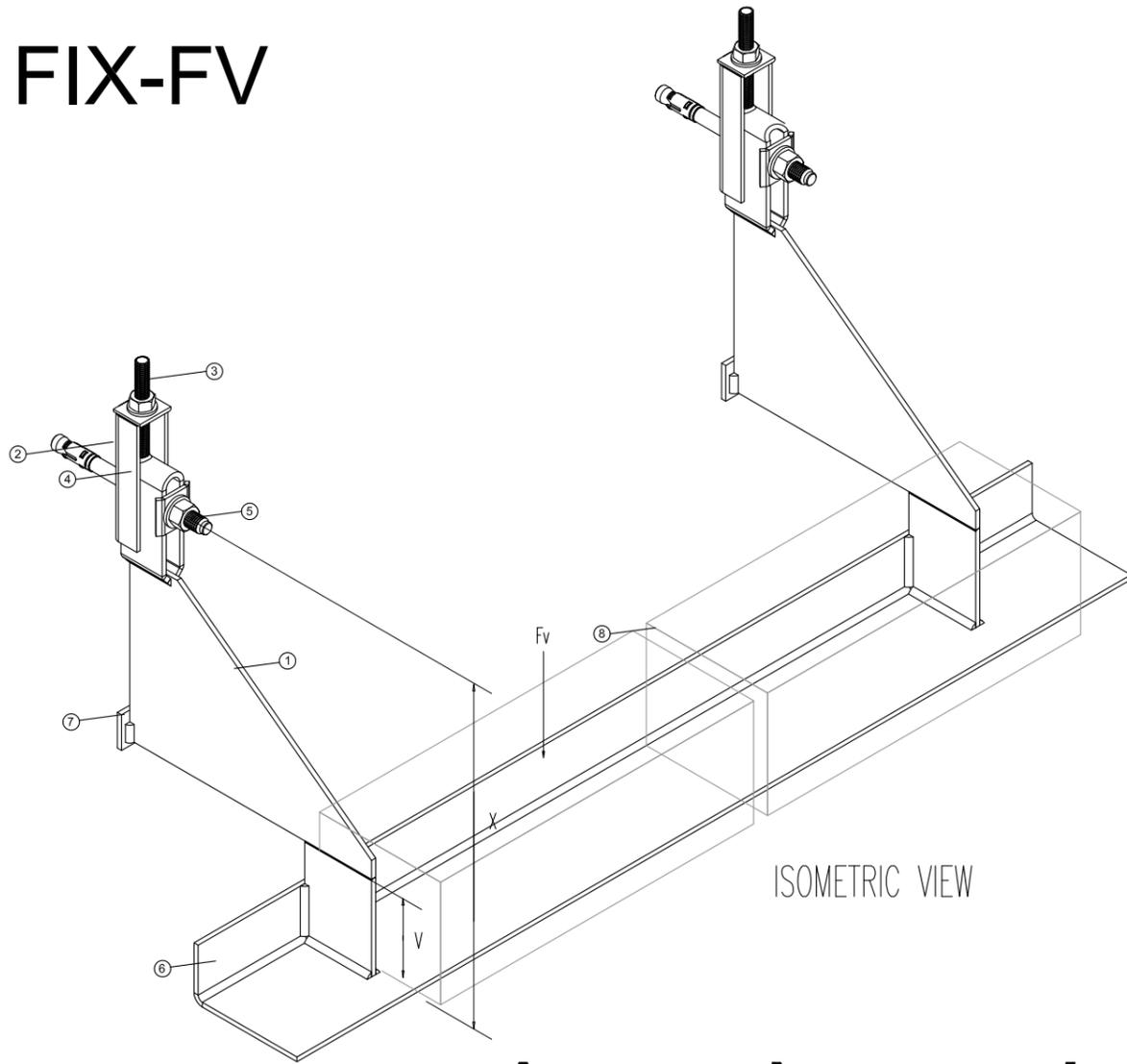
Product Code Description



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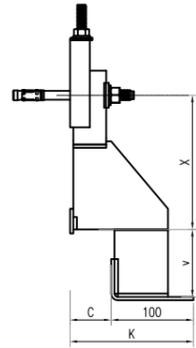
Title :	Brickwork Support System - FIX-F Specification		
Drawing No.	HAZCD-FIX-BR-14		
Series	Concept Drawings - Brickwork Fixing System - FIX Support Anchors		
Revision	01	scale	As Shown
			Page : 14/37

FIX-FV

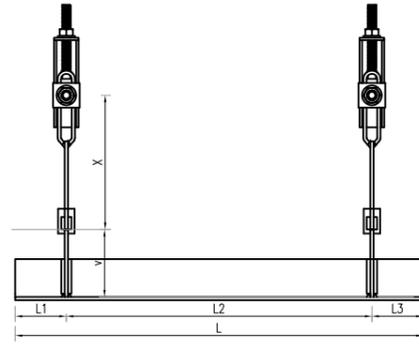


ISOMETRIC VIEW

Legend	
1	Bracket Body
2	Thermal Break
3	Threaded Rod
4	Adjustable Profile
5	Anchor Bolt
6	Support Plate
7	Welded Pressure Plate
8	Brickwork Tile
9	Extension Plate



Elevation View



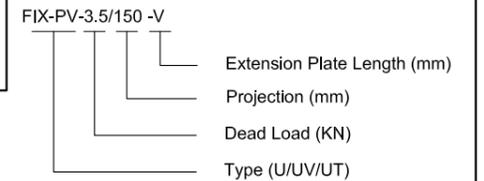
Side View

Product Code	Technical Details						
	Projection+/-15mm K(mm)	Load Range Fv(KN)	Cavity+/-15mm C(mm)	X Size X (mm)	Bolt Size E.b.(mm)	Cast-In Channel T Head Bolt Cl(mm)	Welded Support Plate L1/L2(mm)
FIX-FV-3.5/150	150	3.5	60	150	M12X135	38/17- M12X70	Determined according to application detail
FIX-FV-3.5/170	170		80	150			
FIX-FV-3.5/190	190		100	150			
FIX-FV-3.5/210	210		120	150			
FIX-FV-3.5/230	230		140	175			
FIX-FV-3.5/250	250		160	175			
FIX-FV-3.5/270	270		180	200			
FIX-FV-3.5/290	290		200	200			
FIX-FV-3.5/310	310		220	220			
FIX-FV-3.5/330	330		240	240			
FIX-FV-3.5/350	350	260	260				

FIX-FV-7.0/150	150	7.0	60	200	M12X135	49/30- M16X80	Determined according to application detail
FIX-FV-7.0/170	170		80	200			
FIX-FV-7.0/190	190		100	200			
FIX-FV-7.0/210	210		120	200			
FIX-FV-7.0/230	230		140	250			
FIX-FV-7.0/250	250		160	250			
FIX-FV-7.0/270	270		180	270			
FIX-FV-7.0/290	290		200	290			
FIX-FV-7.0/310	310		220	310			
FIX-FV-7.0/330	330		240	330			
FIX-FV-7.0/350	350	260	350				

FIX-FV-10.5/150	150	10.5	60	250	M16X145	54/33- M16X80	Determined according to application detail
FIX-FV-10.5/170	170		80	250			
FIX-FV-10.5/190	190		100	250			
FIX-FV-10.5/210	210		120	250			
FIX-FV-10.5/230	230		140	300			
FIX-FV-10.5/250	250		160	300			
FIX-FV-10.5/270	270		180	320			
FIX-FV-10.5/290	290		200	350			
FIX-FV-10.5/310	310		220	360			
FIX-FV-10.5/330	330		240	380			
FIX-FV-10.5/350	350	260	400				

Product Code Description

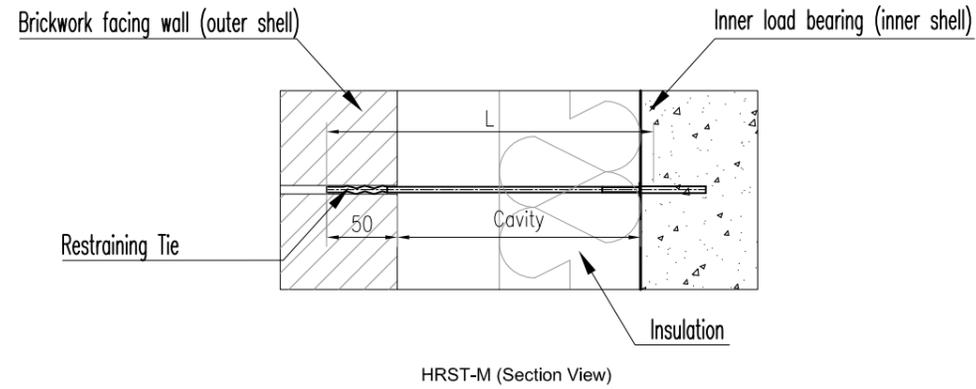
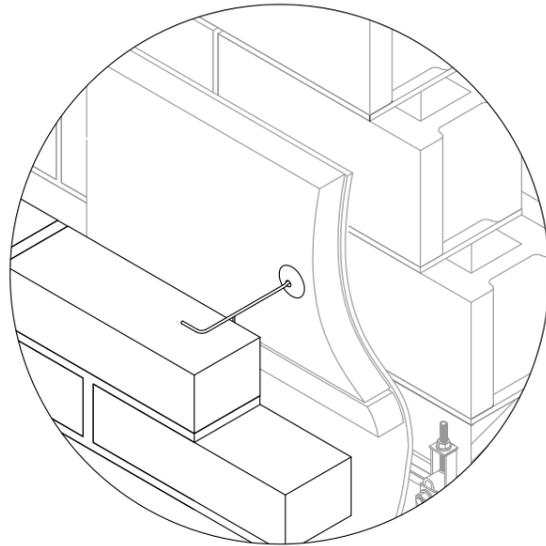


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Title :		Brickwork Support System - FIX-FV Specification		
Drawing No.		HAZCD-FIX-BR-15		
Series		Concept Drawings - Brickwork Fixing System - FIX Support Anchors		
Revision		01	scale	As Shown
				Page : 15/37

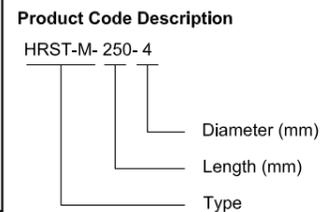
HRST Restraining Tie

The restraining ties are used for restraining the brick facing outer shell walls against wind pressure and suction.

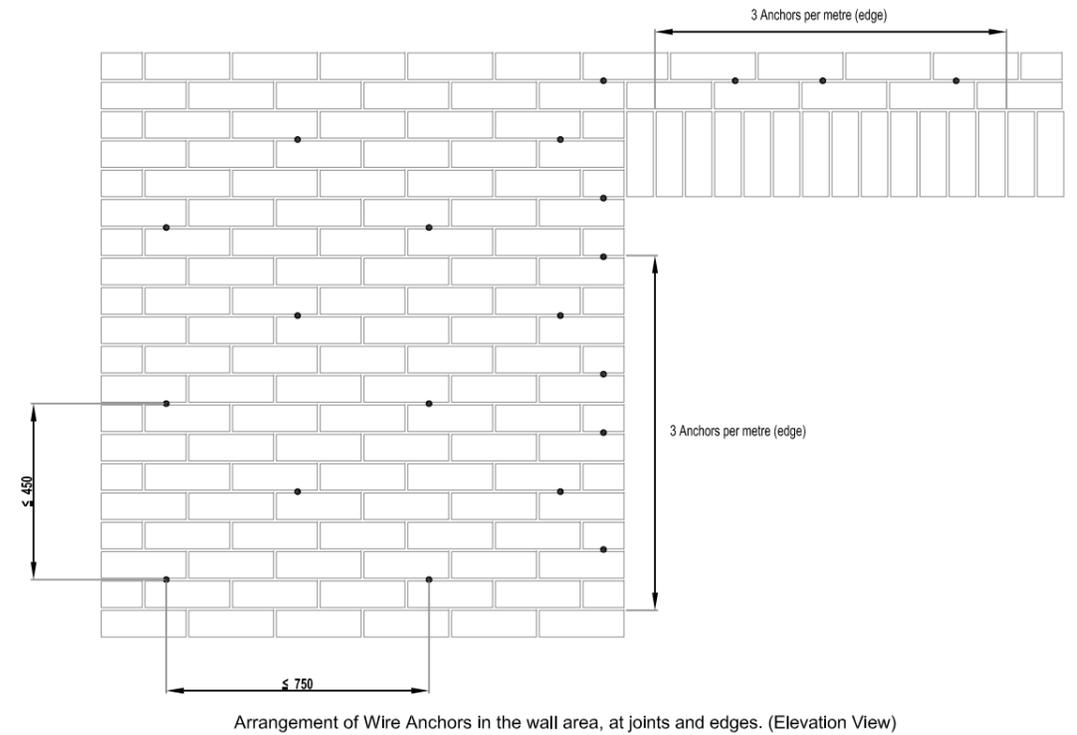


There are two versions that are used for brickwork load bearing walls and concrete load bearing walls, see the table below.

Type	Product Code	Technical Details			Application Area	
		Length L(mm)	Cavity (mm)	Diameter (mm)	Internal Wall	External Wall
	HRST-M-225-4	225	Up to 100	4.0	Brickwork Wall	Brickwork Wall
	HRST-M-250-4	250	Up to 125	4.0		
	HRST-M-275-4	275	Up to 150	4.0		
	HRST-M-300-4	300	Up to 175	4.0		
	HRST-M-340-4	340	Up to 215	4.0		
	HRST-C-160-4	160	Up to 25	4.0	Concrete B15	Brickwork Wall
	HRST-C-180-4	180	Up to 45	4.0		
	HRST-C-210-4	210	Up to 75	4.0		
	HRST-C-250-4	250	Up to 115	4.0		
	HRST-C-275-4	275	Up to 140	4.0		
	HRST-C-300-4	300	Up to 165	4.0		
	HRST-C-320-4	320	Up to 185	4.0		
HRST-C-350-4	350	Up to 200	4.0			



Design principles:



Minimum Quantity and Diameter of Wire Anchors Per Square Meter		
Case	Minimum Quantity	Diameter (mm)
Wall area higher than 12m above ground or cavity size from 70 to 120mm	5	4
Cavity from 120 to 150mm	7	4
Cavity from 120 to 150mm	5	5
Cavity from 150 to 170mm	8	5
Cavity from 170 to 200mm	9	5



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Title : Brickwork Support System - HRST - Restraining Tie -Specification

Drawing No. HAZCD-FIX-BR-16

Series Concept Drawings - Brickwork Fixing System - FIX Support Anchors

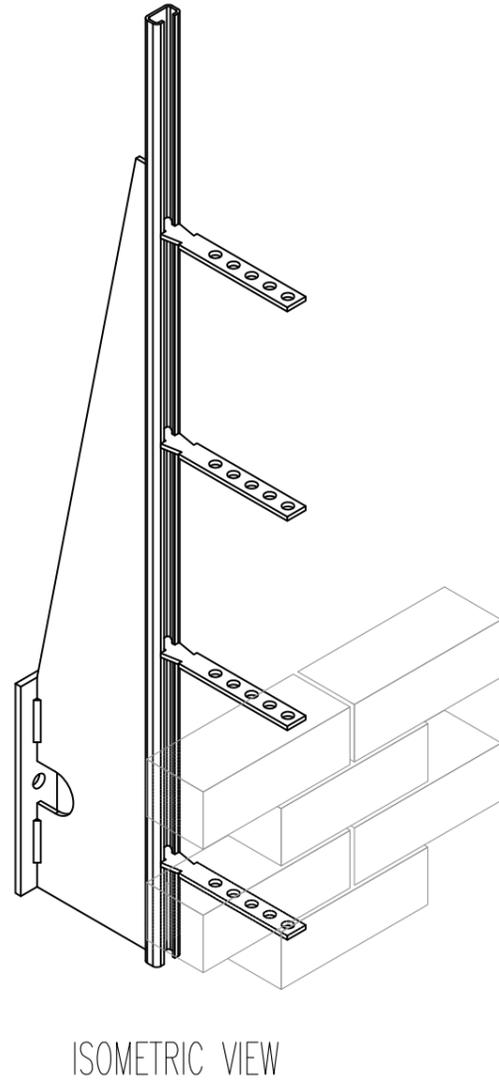
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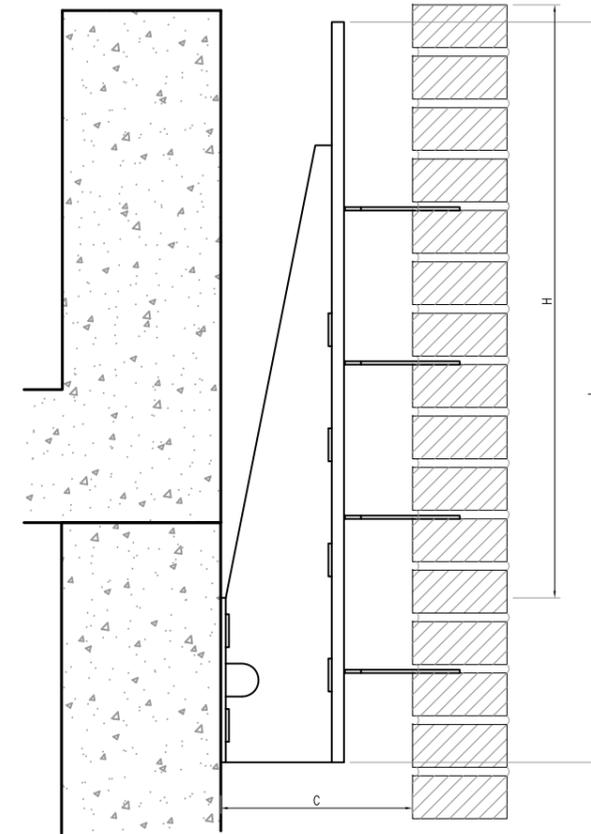
HMS-AV

Special Restraint Channel

This Type of restraining anchor is used for fascias to prevent the formation of cracks due to differences in movement by the flat roof and facework.



Legend	
1	Bracket Body
2	Thermal Break
3	Threaded Rod
4	Adjustable Profile
5	Anchor Bolt
6	Support Plate
7	Welded Pressure Plate
8	U insert (to be ordered separately)



Side View

Product Code	Technical Details				
	Cavity C(mm)	Length L(mm)	Useful Height H (mm)	WallTie Quantity (pcs)	Wall Tie Types
HMS-AV-600-80	80	600	440-550	3	HWT-M-28-85
HMS-AV-600-80	90				HWT-M-28-120
HMS-AV-600-80	145				HWT-M-28-180
HMS-AV-850-80	80	850	650-800	4	HWT-M-28-85
HMS-AV-850-80	90				HWT-M-28-120
HMS-AV-850-80	145				HWT-M-28-180
HMS-AV-1100-80	80	1100	900-1000	5	HWT-M-28-85
HMS-AV-1100-80	90				HWT-M-28-120
HMS-AV-1100-80	145				HWT-M-28-180

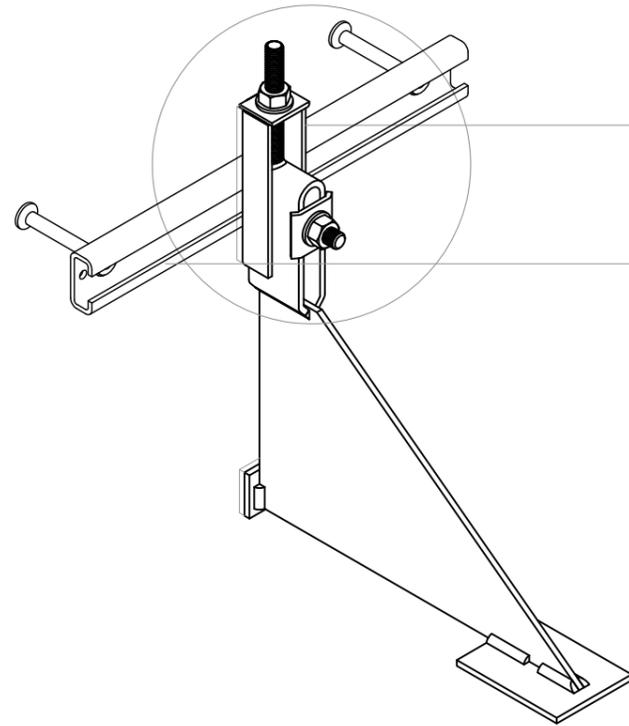


Title :		Brickwork Support System - HMS-AV Specification		
Drawing No.	HAZCD-FIX-BR-17			
Series	Concept Drawings - Brickwork Fixing System - FIX Support Anchors			
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FIX-U

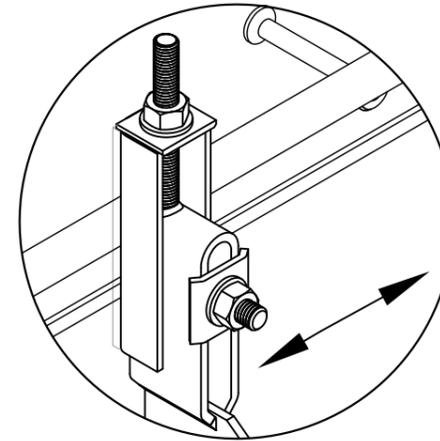
Adjustability



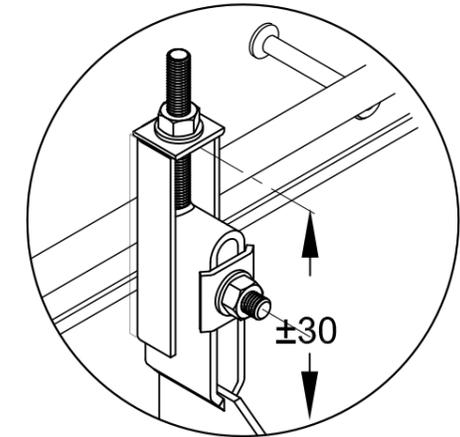
ISOMETRIC VIEW

FIX-AP
Adjustable Profile

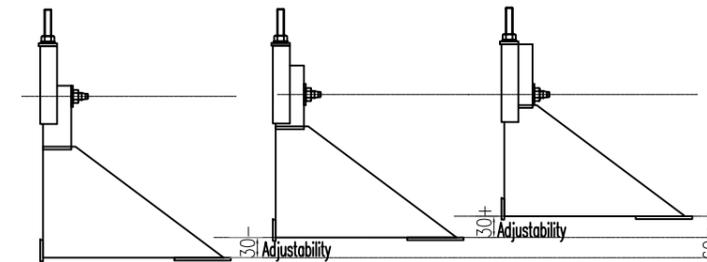
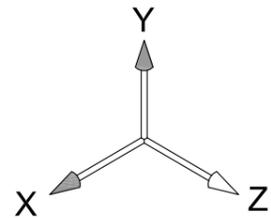
HMPR
Cast-in Channel



① Adjustability in the Horizontal axis is made by Cast-in Channel, Adjustment of the Bracket Left and Right on the X Axis is provided by Sliding the Bracket along Cast-in Channel .



② Adjustability in the vertical axis is made by swirling the set screw on top of the bracket. A total of 60 mm adjustability is possible.



Elevation View



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Title : Brickwork Support System - FIX- Adjustability

Drawing No. HAZCD-FIX-BR-18

Series Concept Drawings - Brickwork Fixing System - FIX Support Anchors

Revision

01

scale

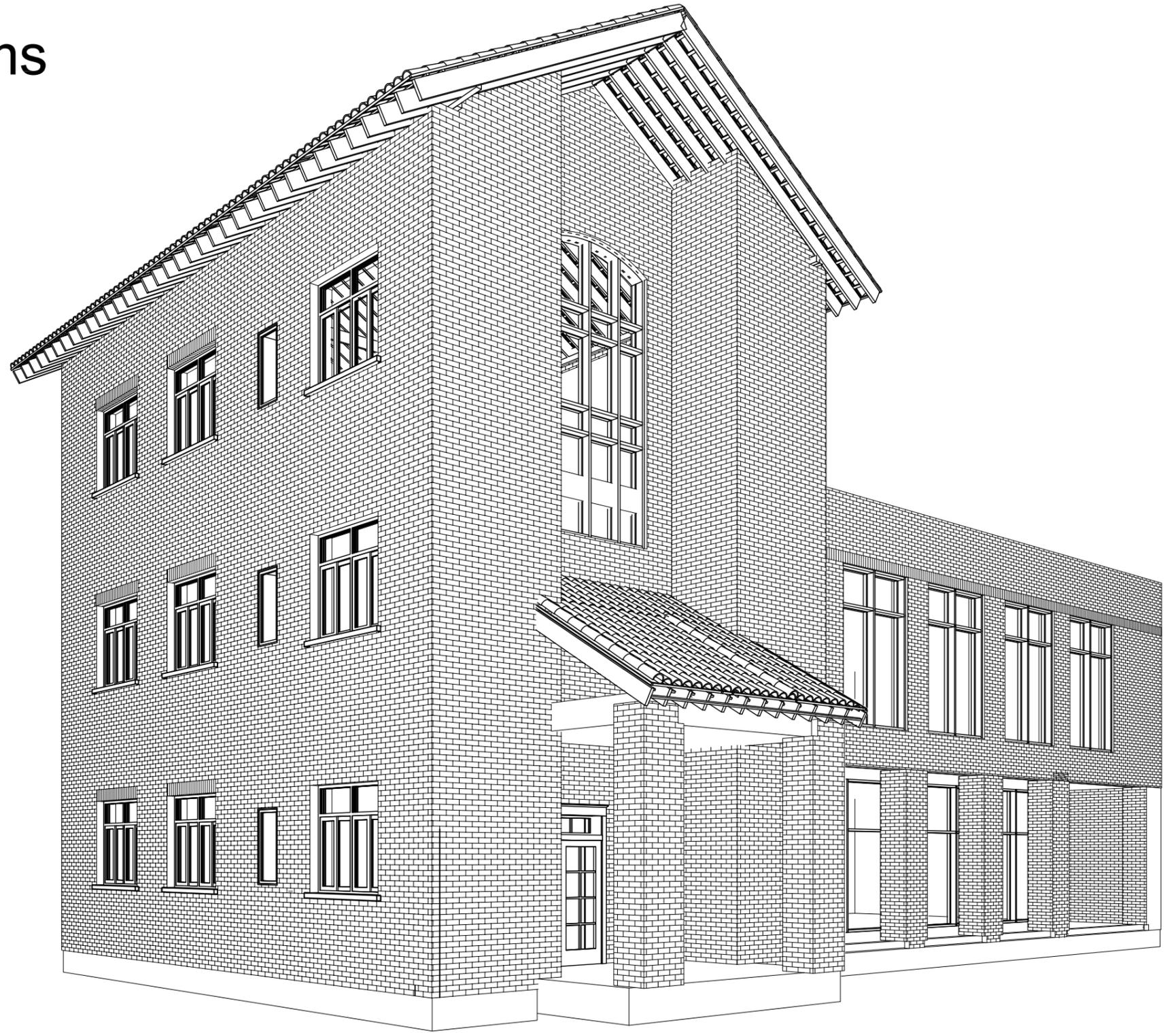
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Brickwork Support Systems

Application Examples



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Title : Brickwork Support System- Application Examples

Drawing No. HAZCD-FIX-BR-19

Series Concept Drawings - Brickwork Fixing System - FIX Support Anchors

Revision

01

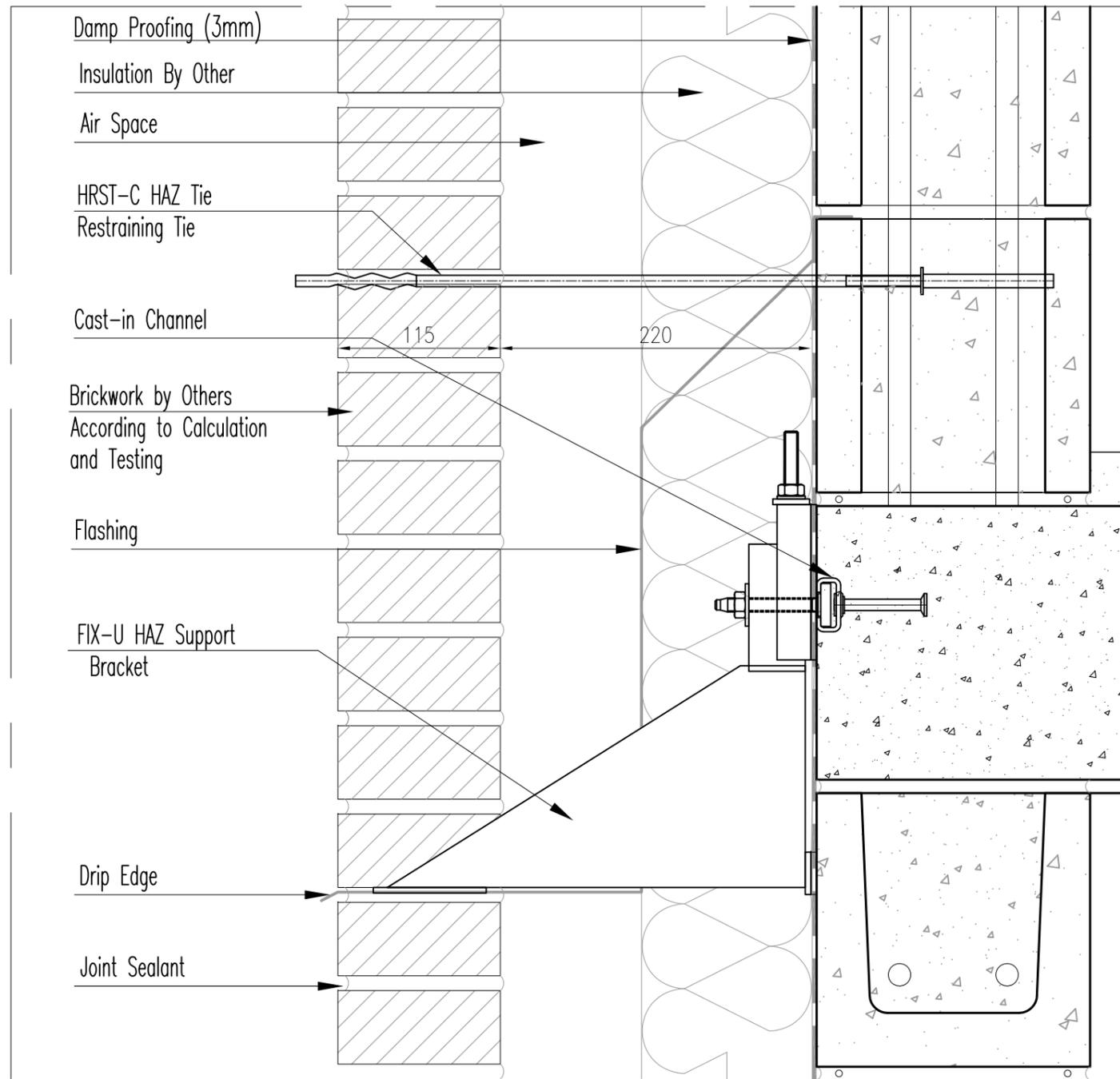
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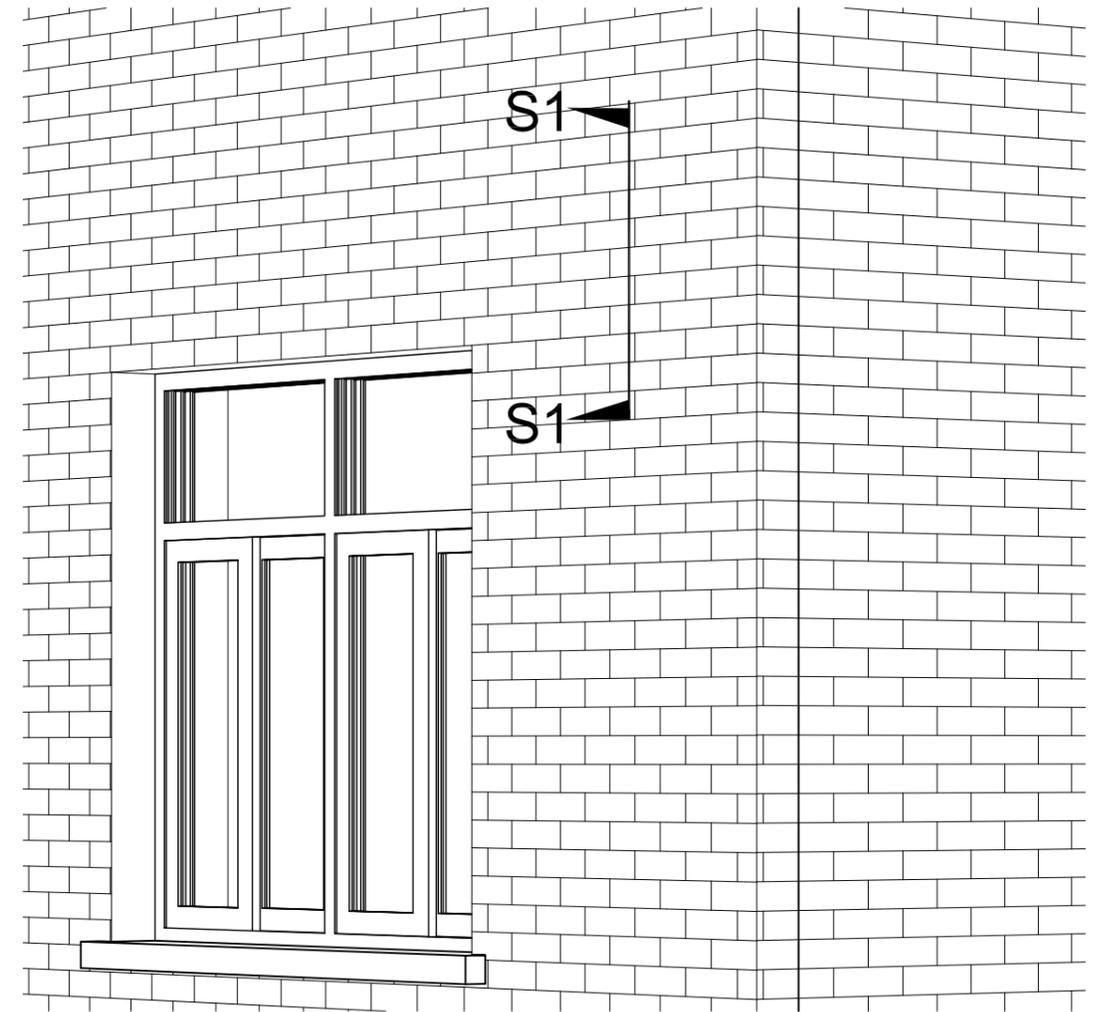
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FIX-U



S1-Vertical section Scale 1:4



Perspective Scale 1:100



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Title : Brickwork Facade - Standard Wall Area - Vertical Section

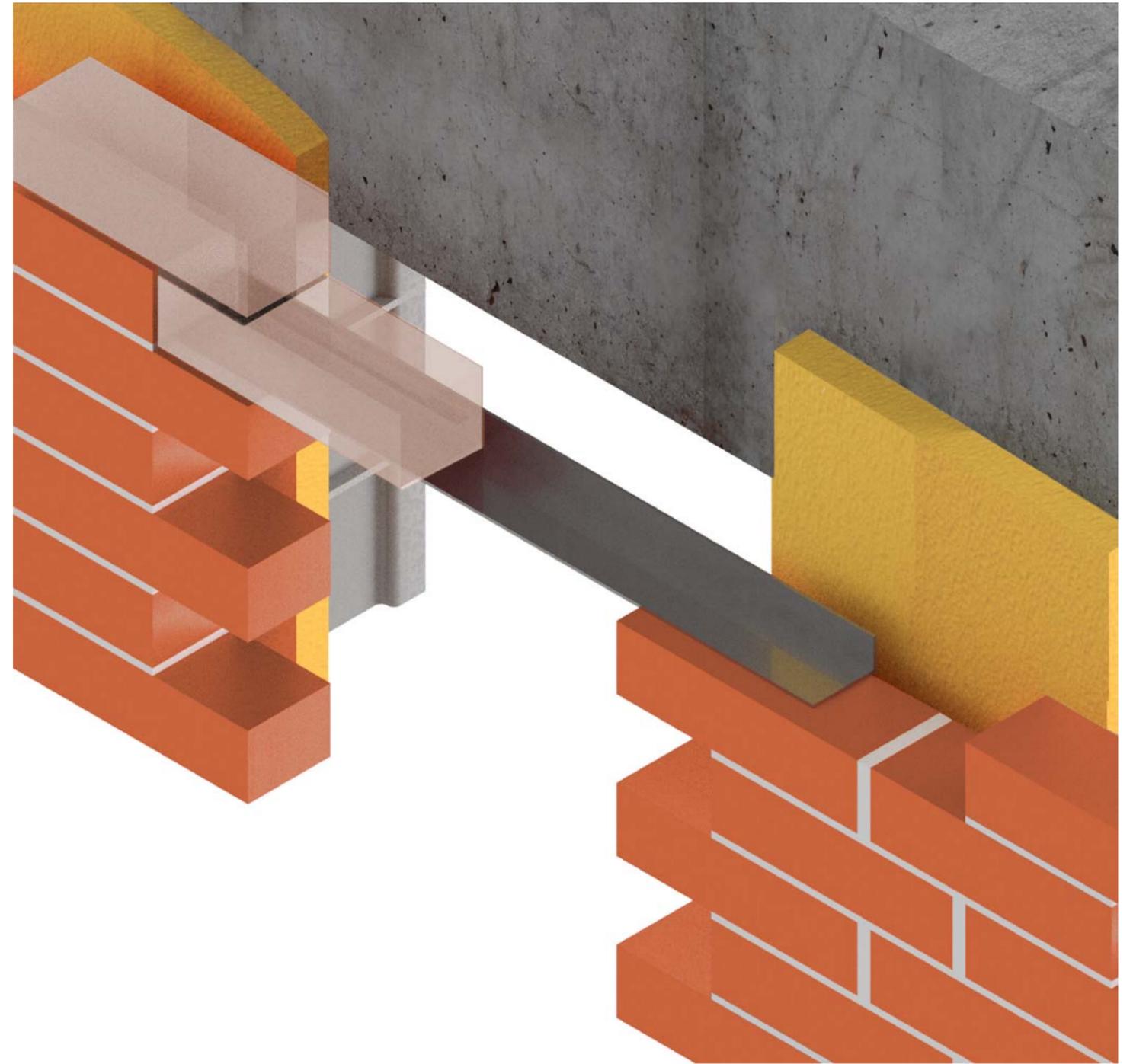
Drawing No. HAZCD-FIX-BS-20

Series Concept Drawings - Brickwork Fixing System - FIX

Revision	01	scale	As Shown
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HMLS-E



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Title : Brickwork Support System - FIX-U System Components

Drawing No. HAZCD-FIX-BR-21

Series Concept Drawings - Brickwork Fixing System - FIX Support Anchors

Revision

01

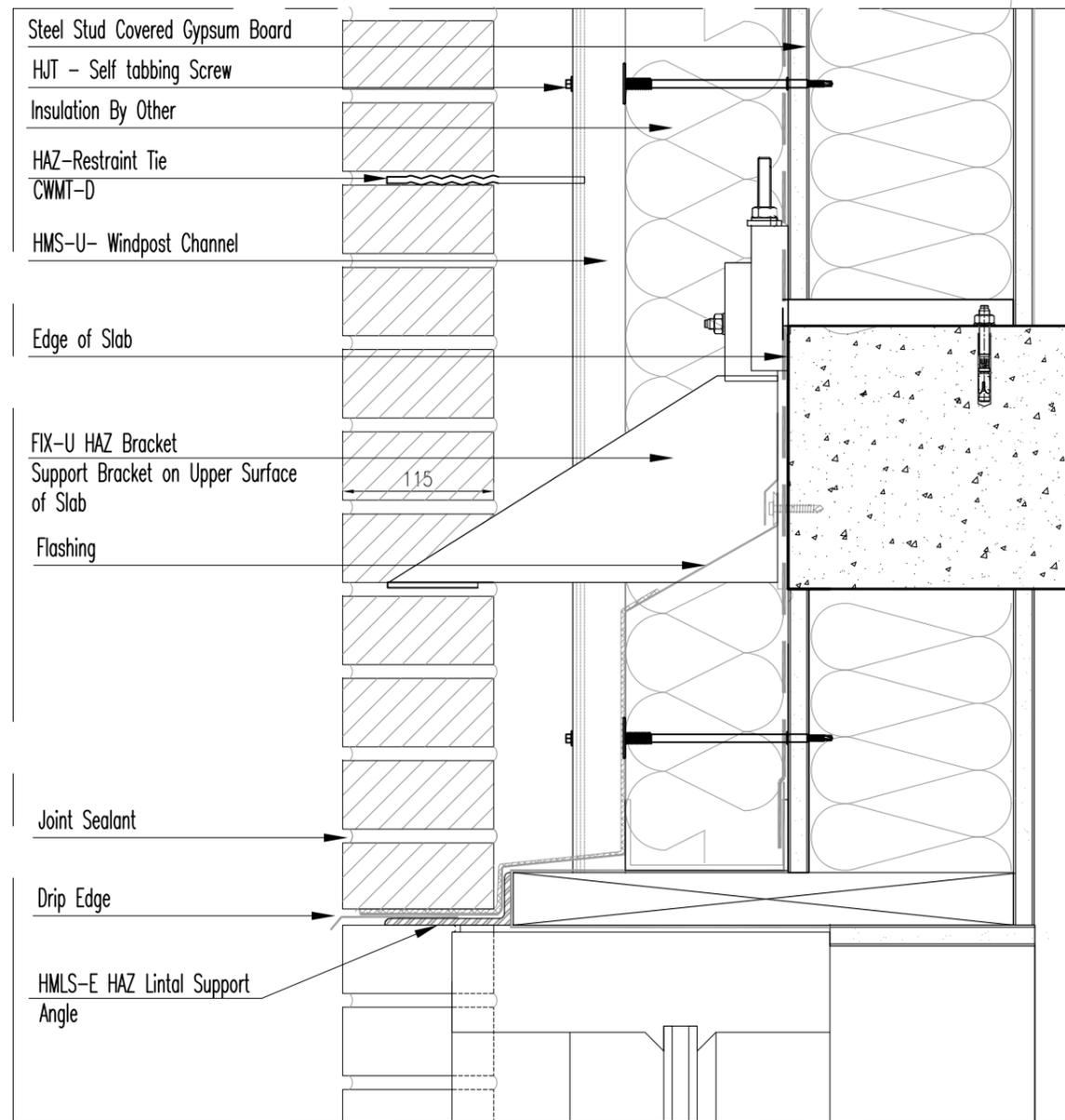
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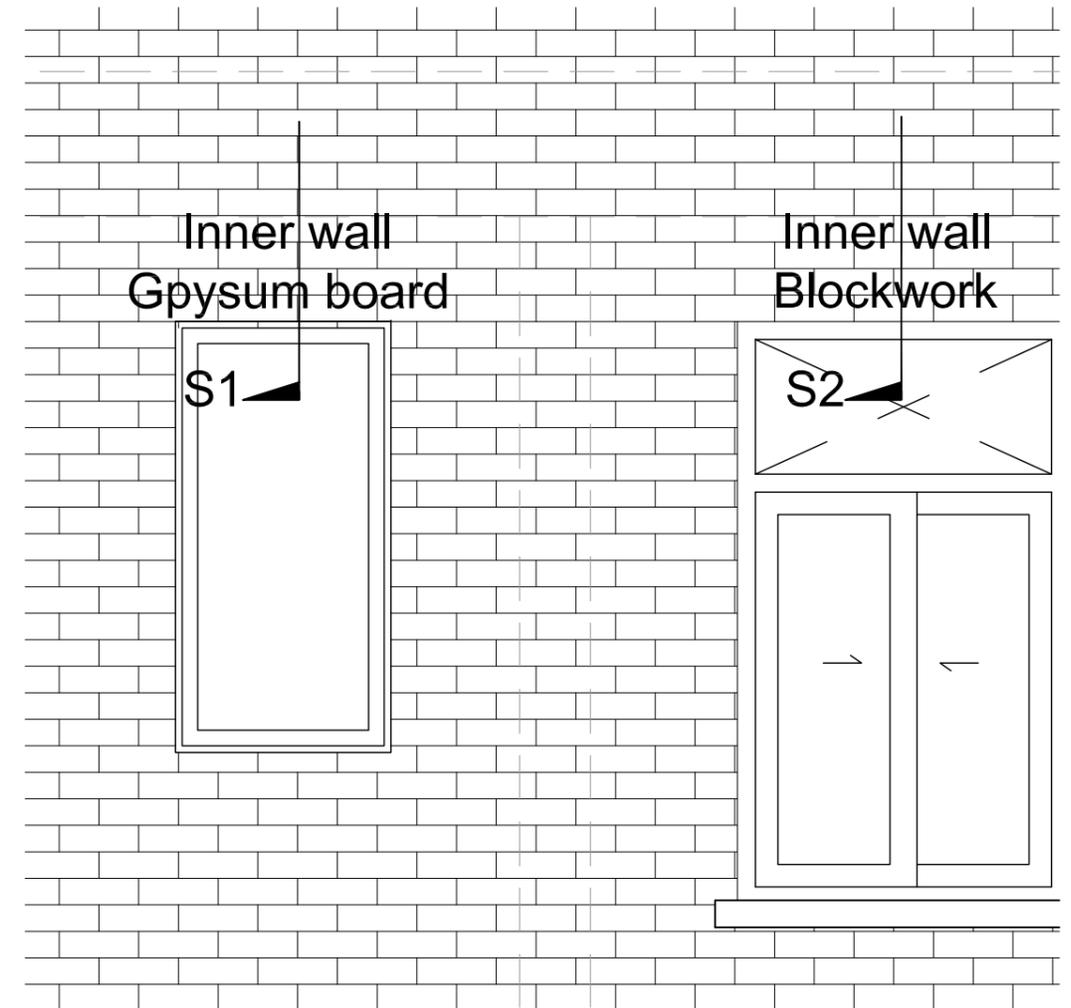
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HMLS-E



S1- Vertical section Scale 1:5



Elevation Scale 1:20



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Title : Brickwork Facade - Angled Bracket HMLS-E Above Opening - Vertical Section

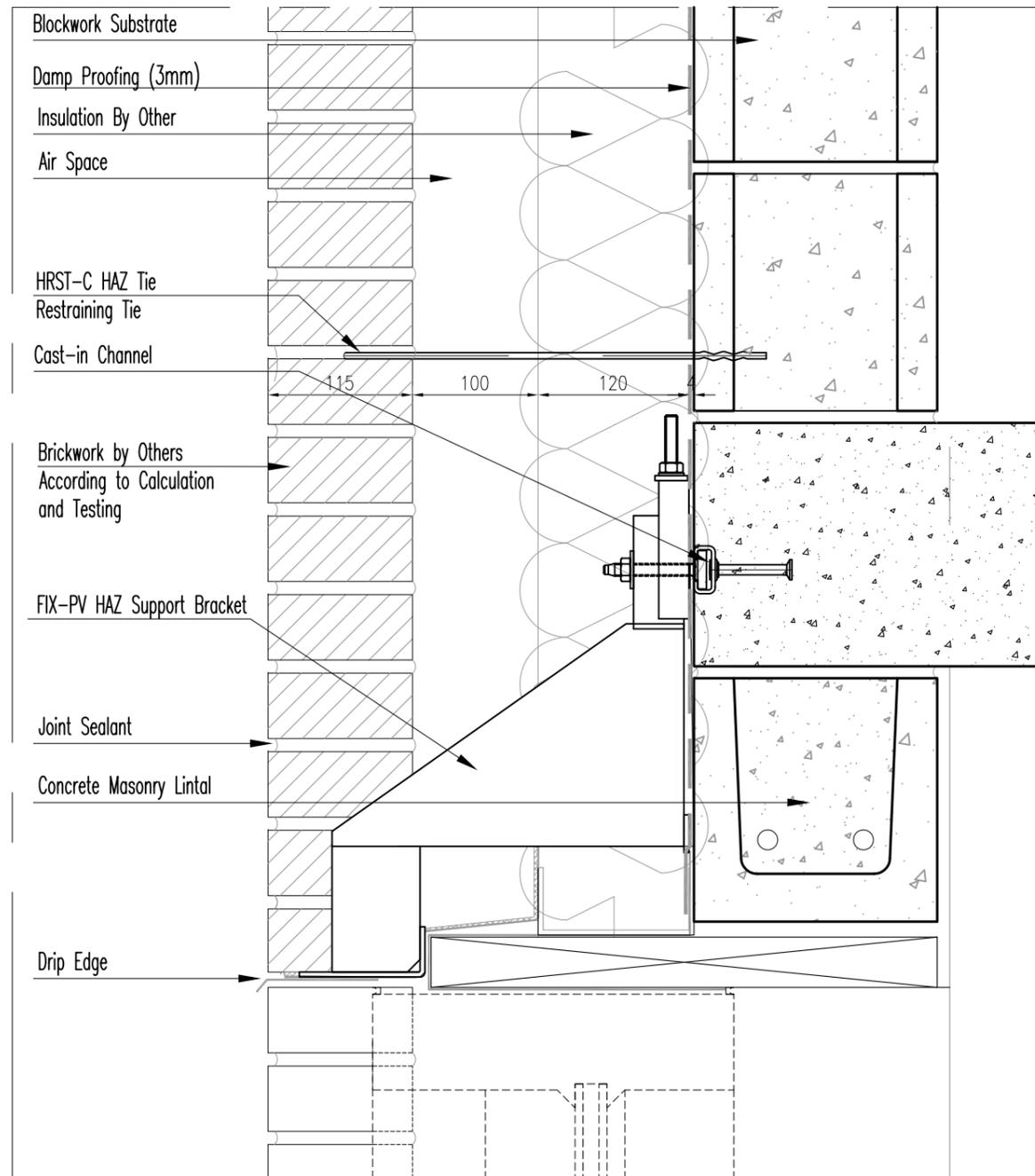
Drawing No. HAZCD-FIX-BS-22

Series Concept Drawings - Brickwork Fixing System - FIX

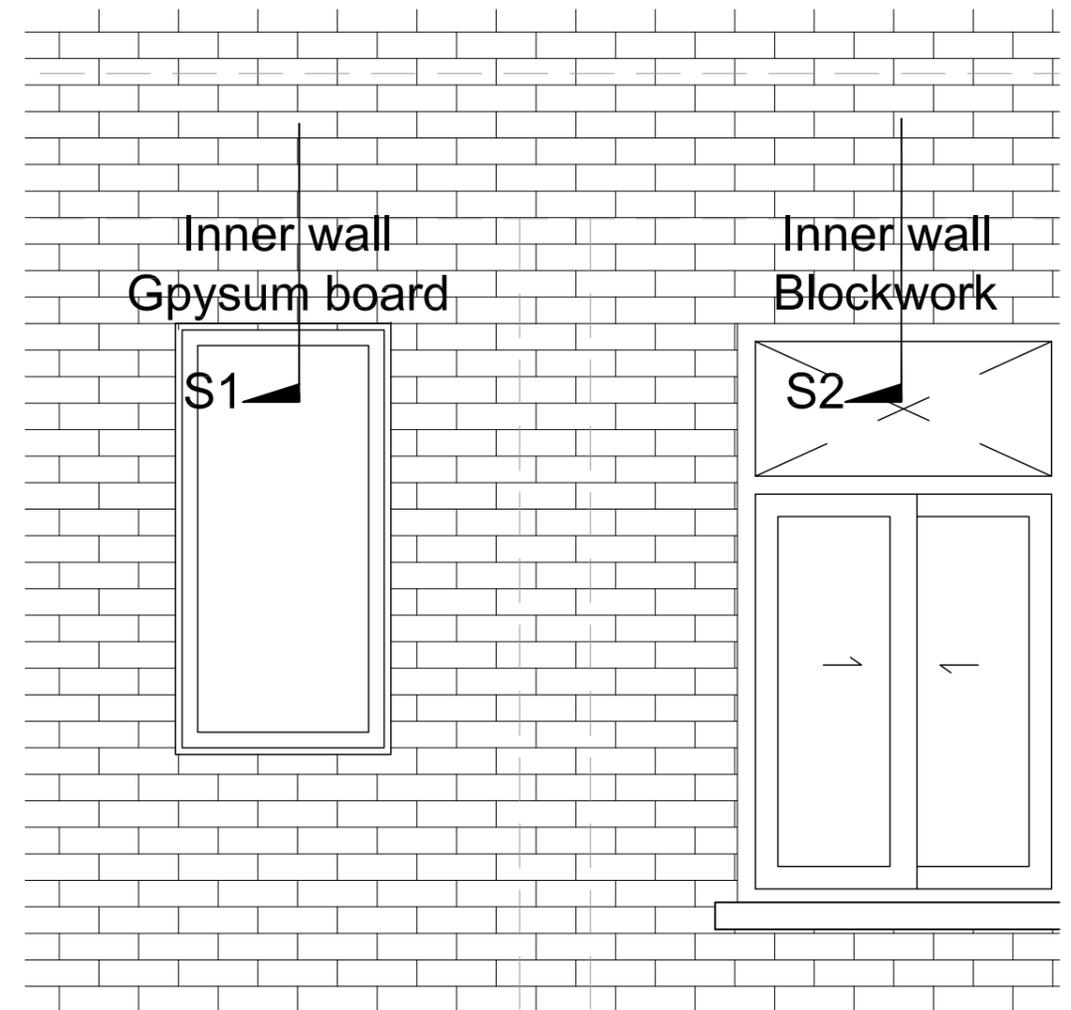
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FIX-PV



Vertical section Scale 1:4



Elevation Scale 1:20



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Title : Brickwork Facade - Visible Support Over a Window opening - Vertical Section

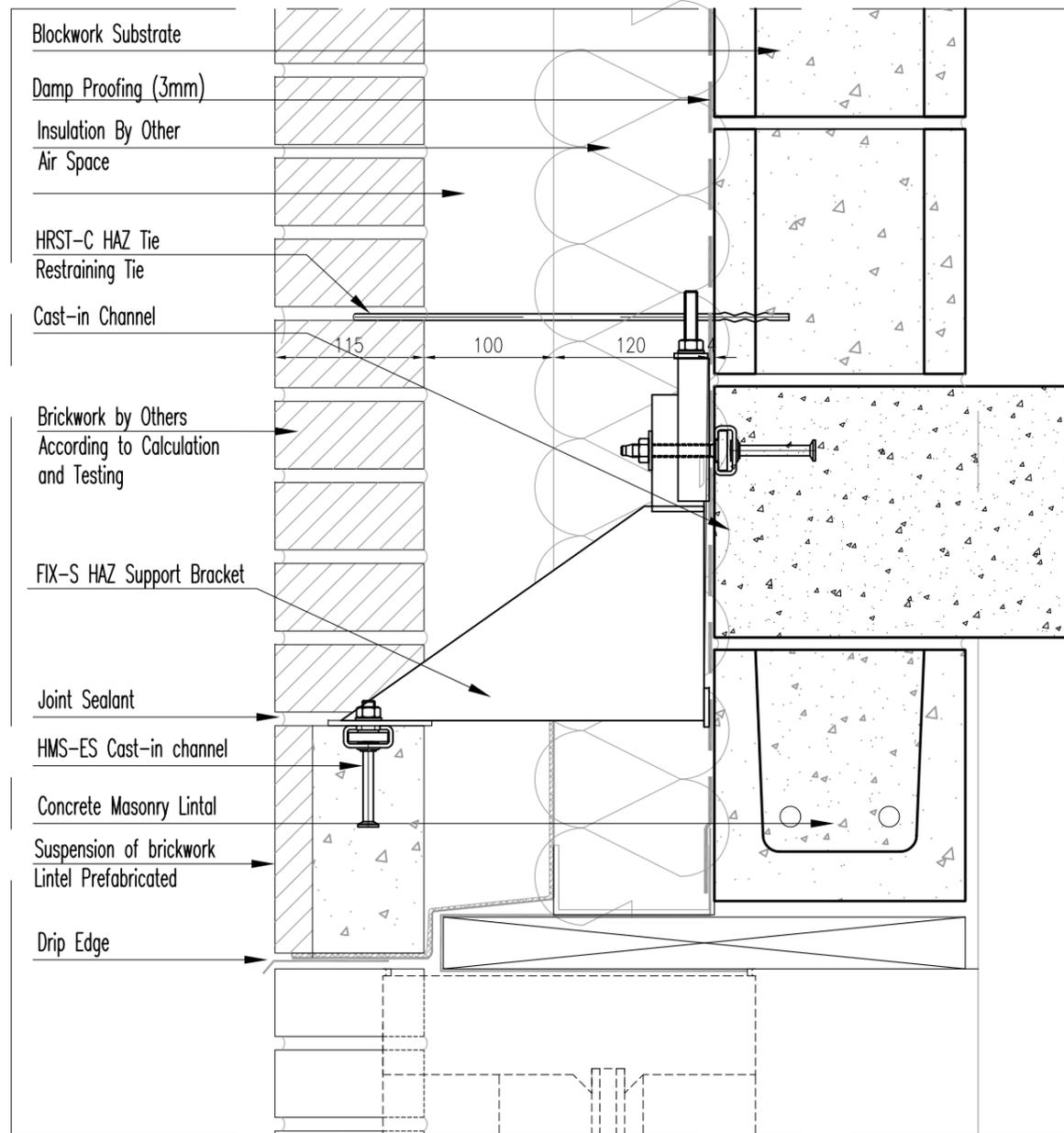
Drawing No. HAZCD-FIX-BS-23

Series Concept Drawings - Brickwork Fixing System - FIX

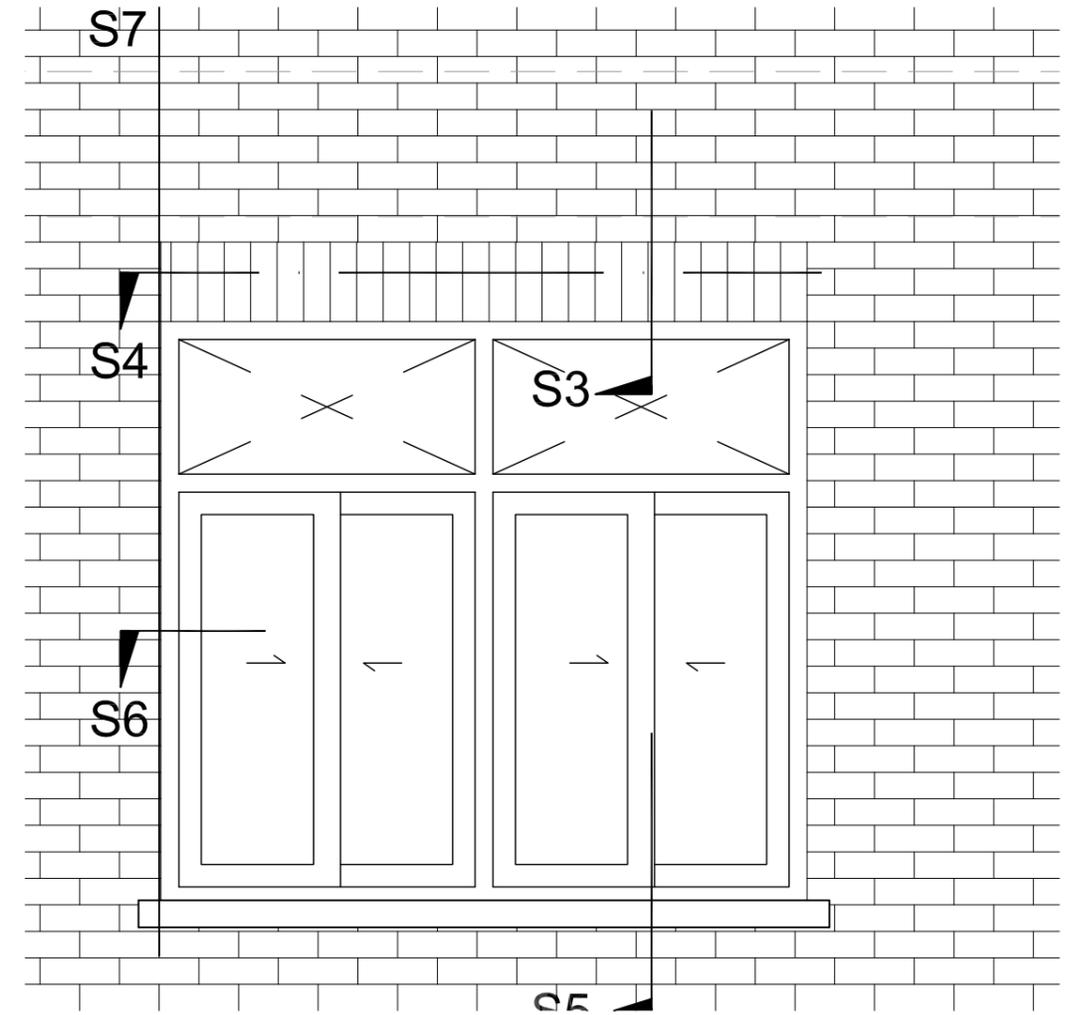
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FIX-S



S3-Vertical section Scale 1:4



Elevation Scale 1:20



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Title : Brickwork Facade - Suspension of Prefabricated Lintels - Vertical Section

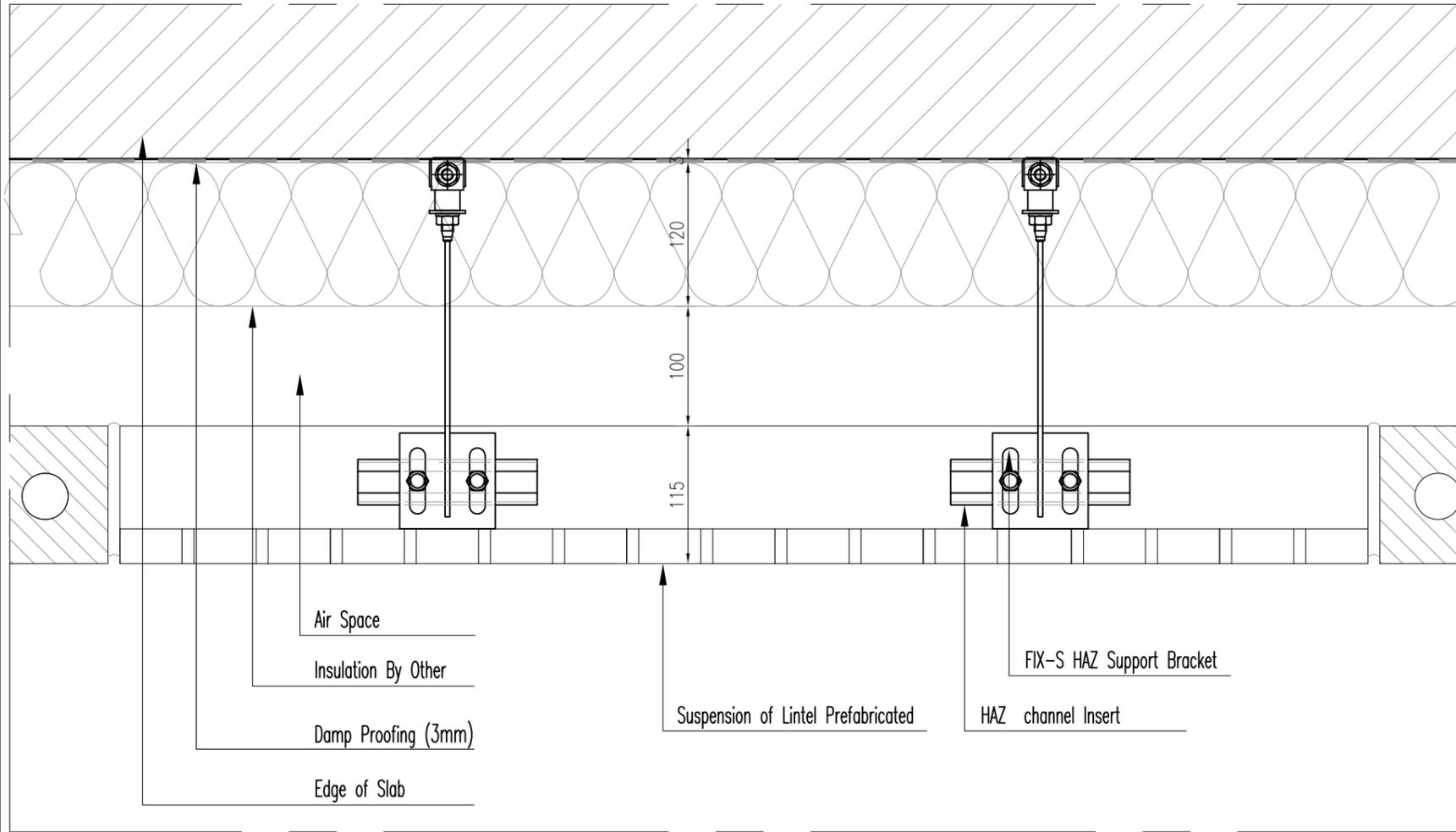
Drawing No. HAZCD-FIX-BS-24

Series Concept Drawings - Brickwork Fixing System - FIX

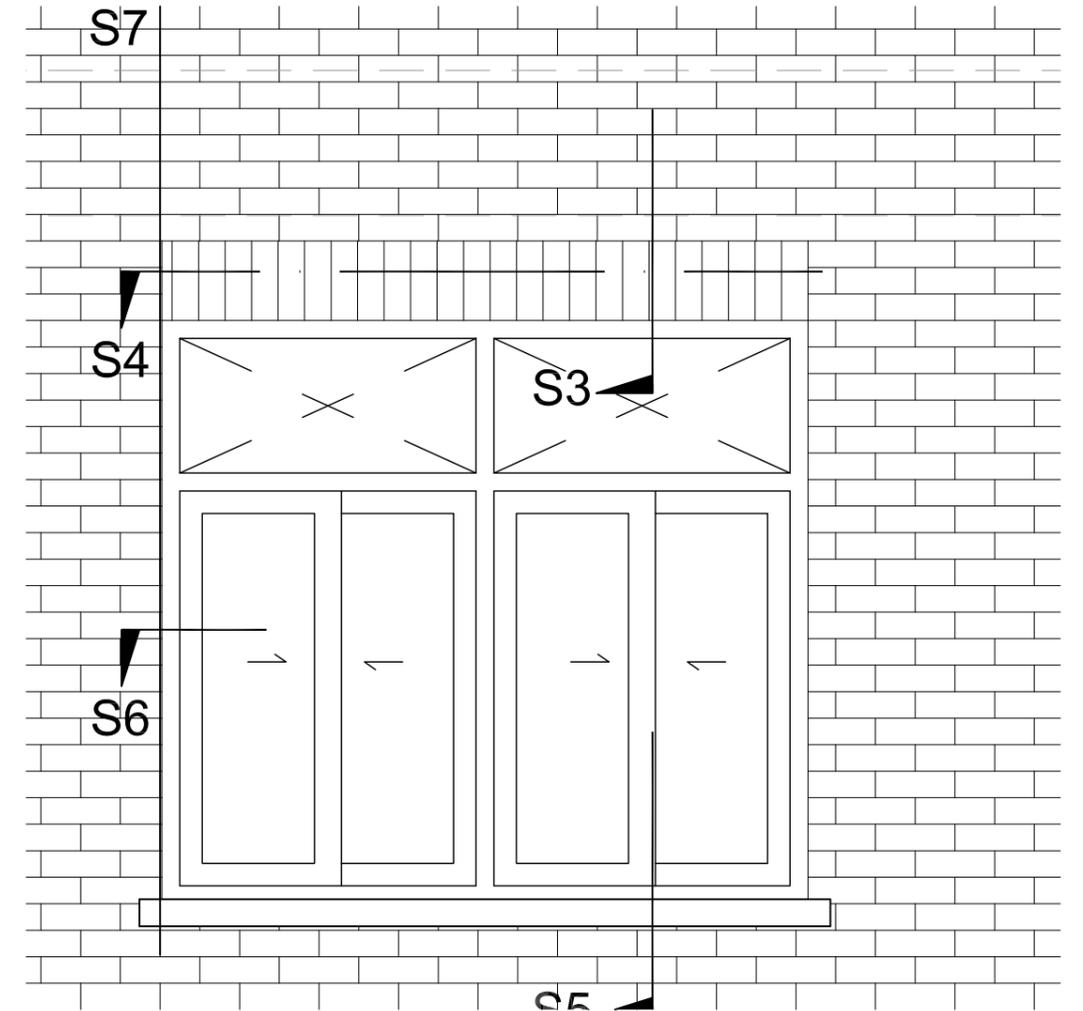
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FIX-S



S3-Vertical section Scale 1:5



Elevation Scale 1:20



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Title : Brickwork Facade - Suspension of Prefabricated Lintels - Horizontal Section

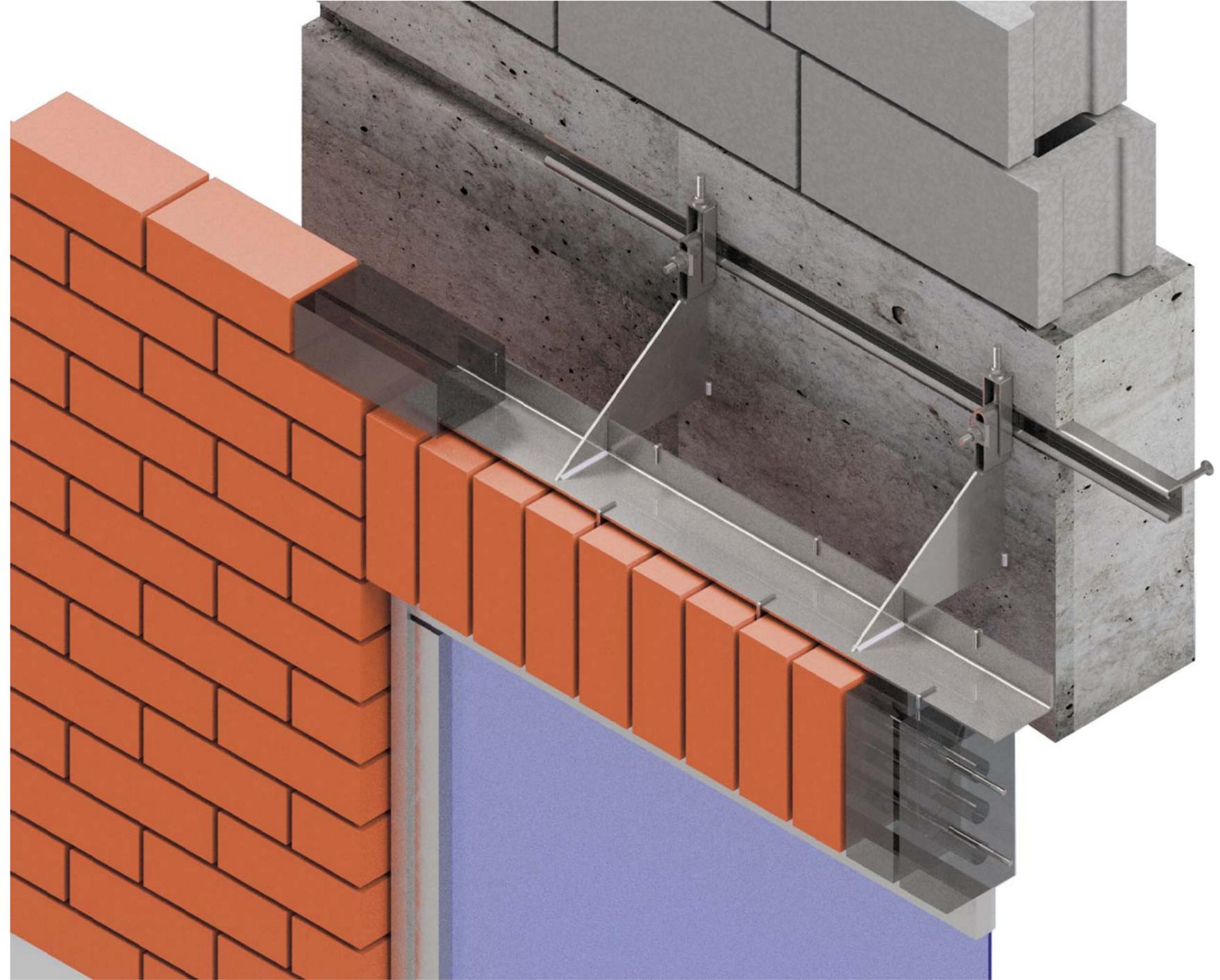
Drawing No. HAZCD-FIX-BS-25

Series Concept Drawings - Brickwork Fixing System - FIX

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HMLS-C



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Title : Brickwork Support System - FIX-U System Components

Drawing No. HAZCD-FIX-BR-26

Series Concept Drawings - Brickwork Fixing System - FIX Support Anchors

Revision

01

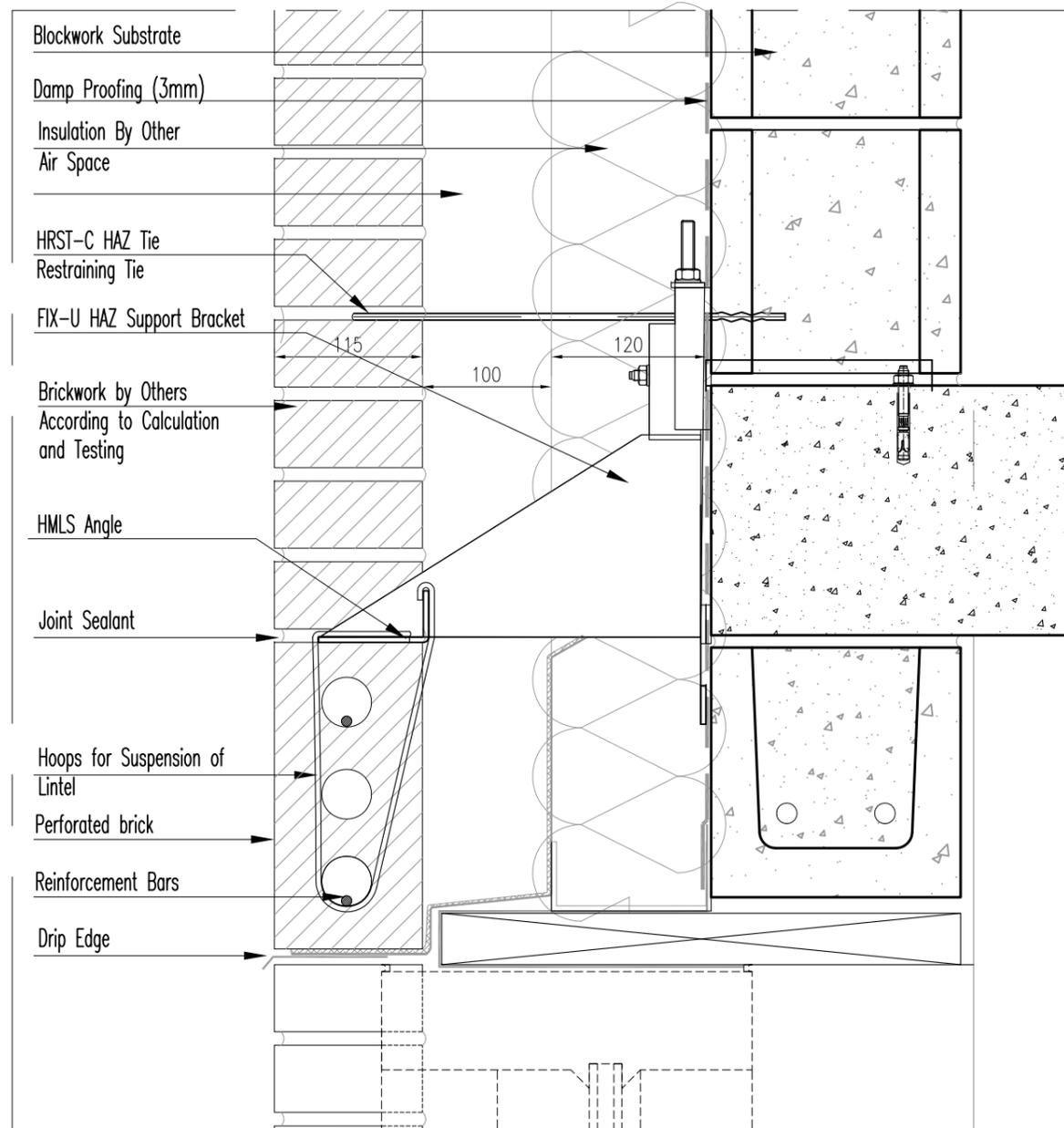
scale

As Shown

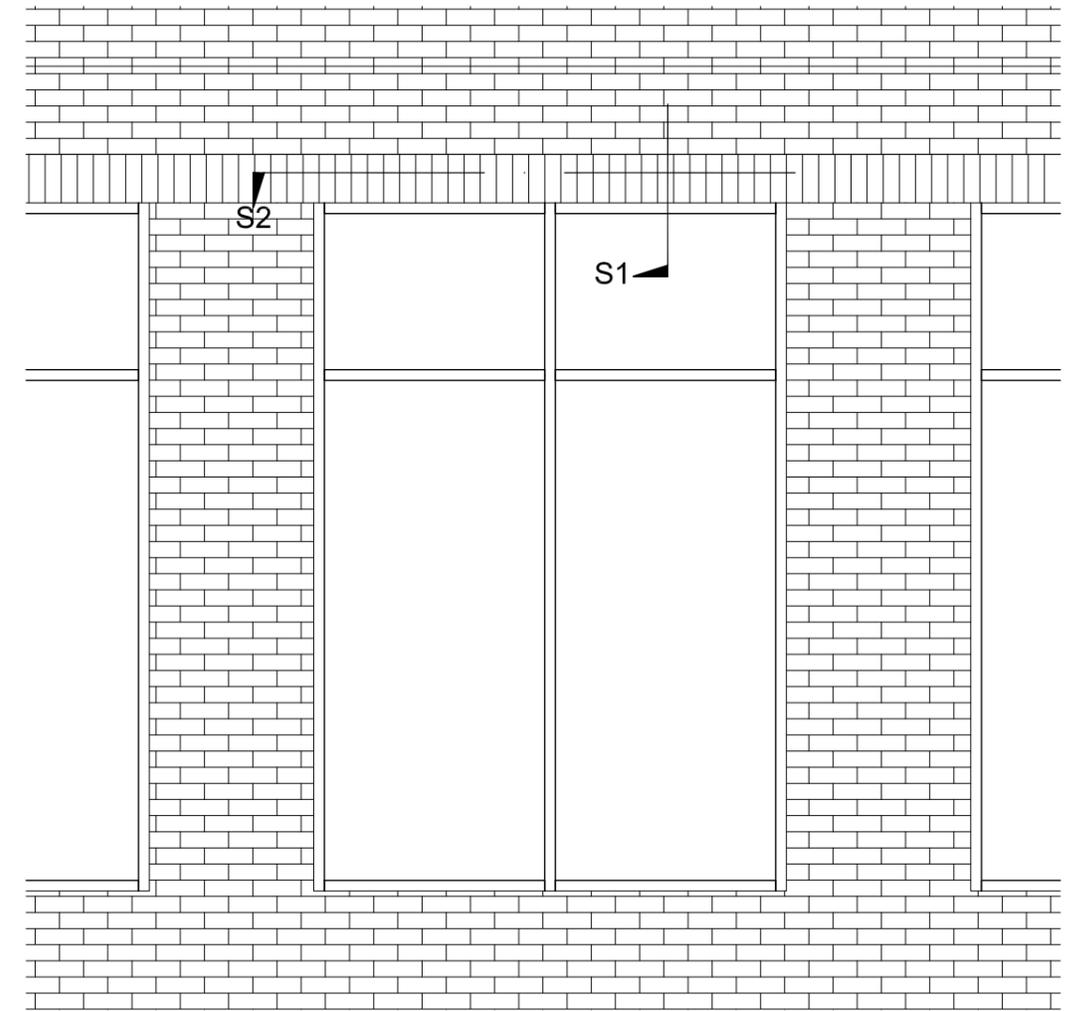
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HMLS-C



S1-Vertical section Scale 1:5



Elevation Scale 1:20



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Title : Brickwork Facade - Hidden Lintel Support Angle with Hoops - Vertical Section

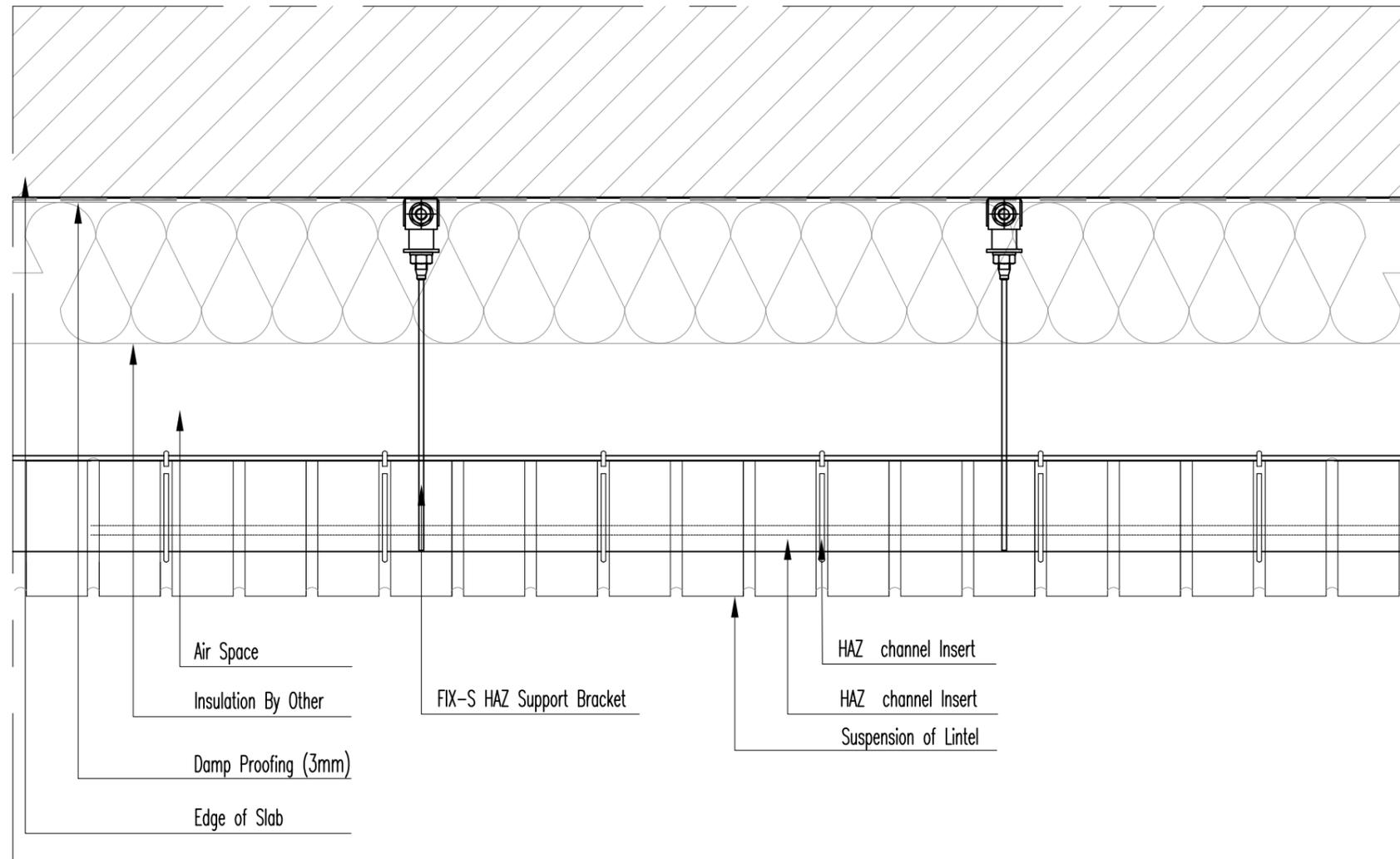
Drawing No. HAZCD-FIX-BS-27

Series Concept Drawings - Brickwork Fixing System - FIX

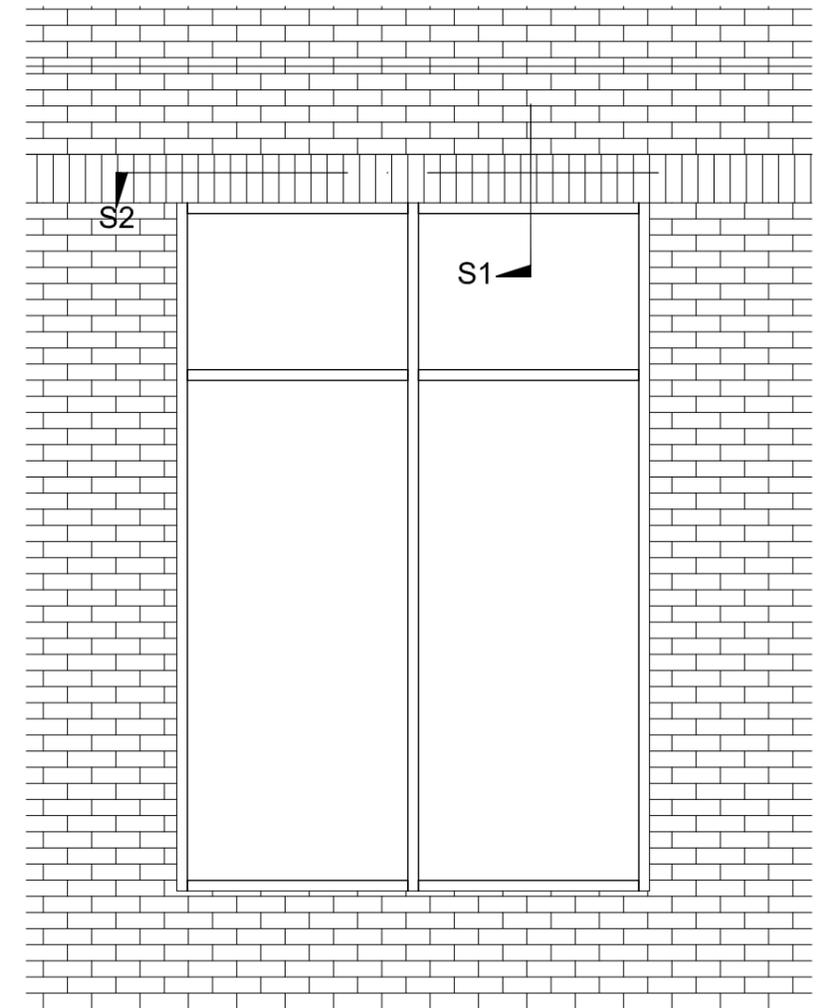
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HMLS-C



S2-Horizontal section Scale 1:5



Elevation Scale 1:20



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Title : Brickwork Facade - Lintel Support Angle with Hoops - Horizontal Section

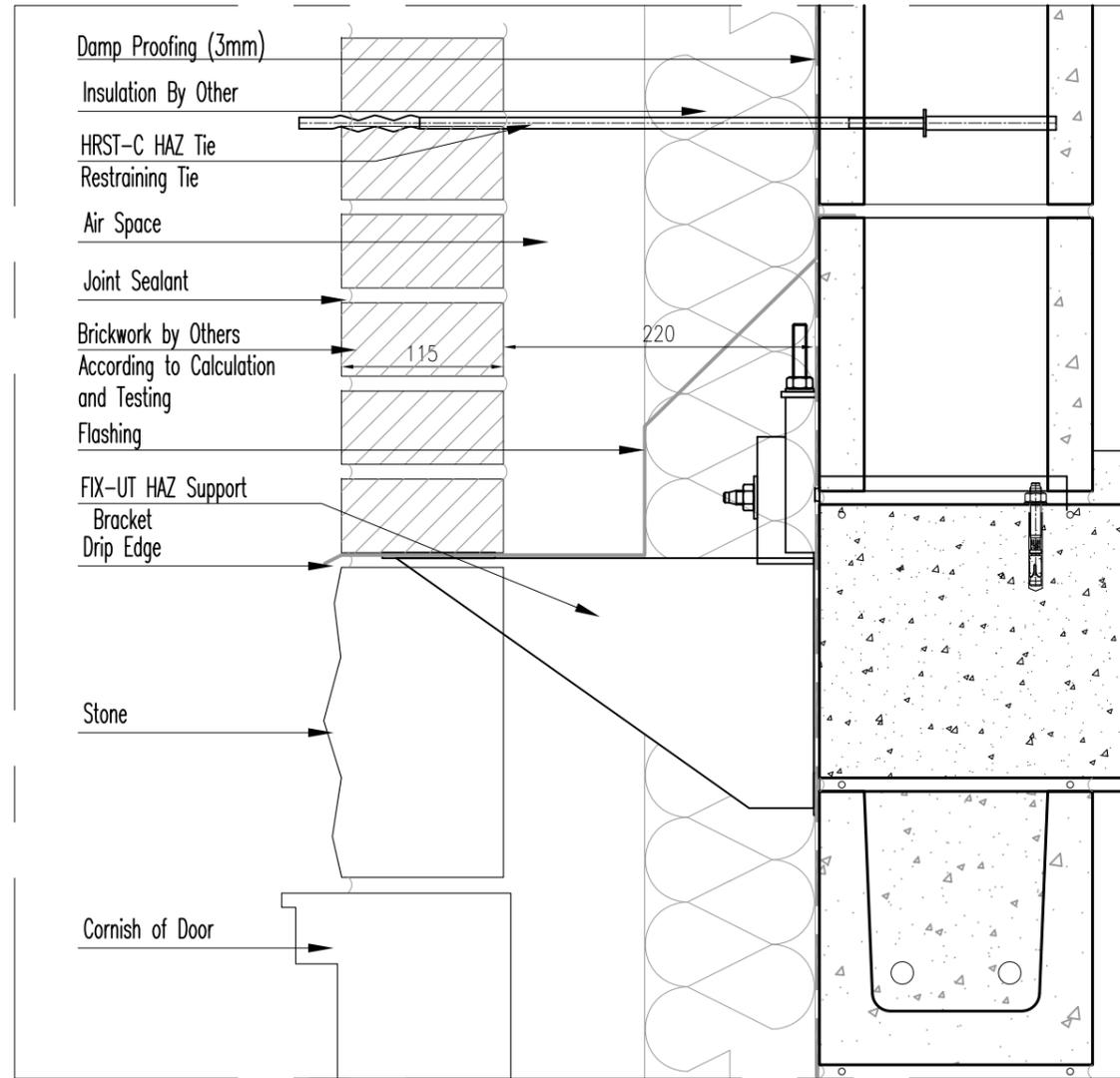
Drawing No. HAZCD-FIX-BS-28

Series Concept Drawings - Brickwork Fixing System - FIX

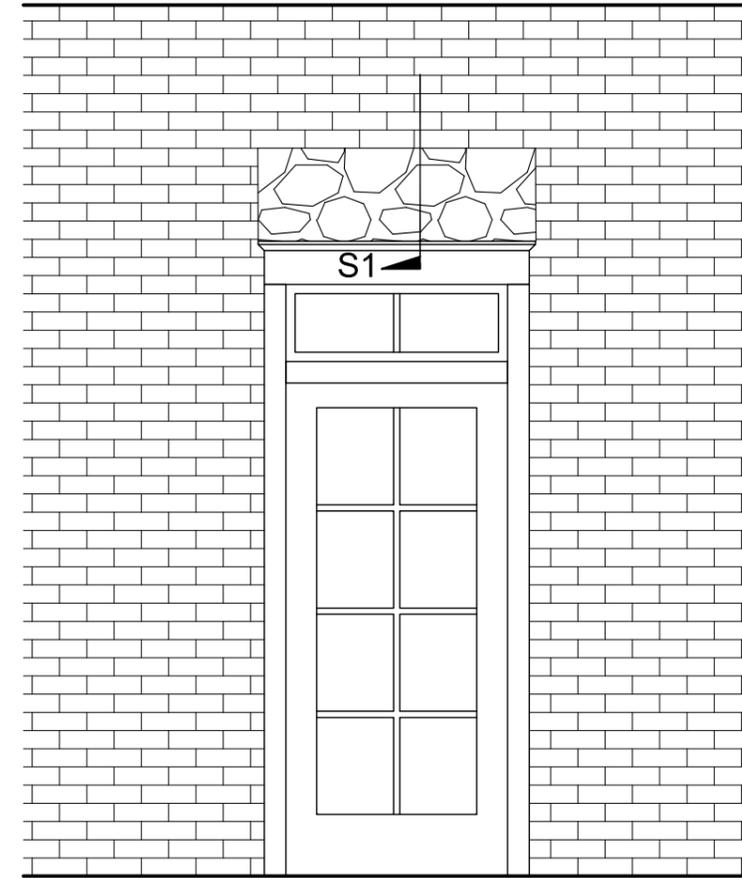
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FIX-UT



S1-Vertical section Scale 1:5



Elevation Scale 1:20



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Title : Brickwork Facade - Higher Level of Brickwork At Spandrial - Vertical Section

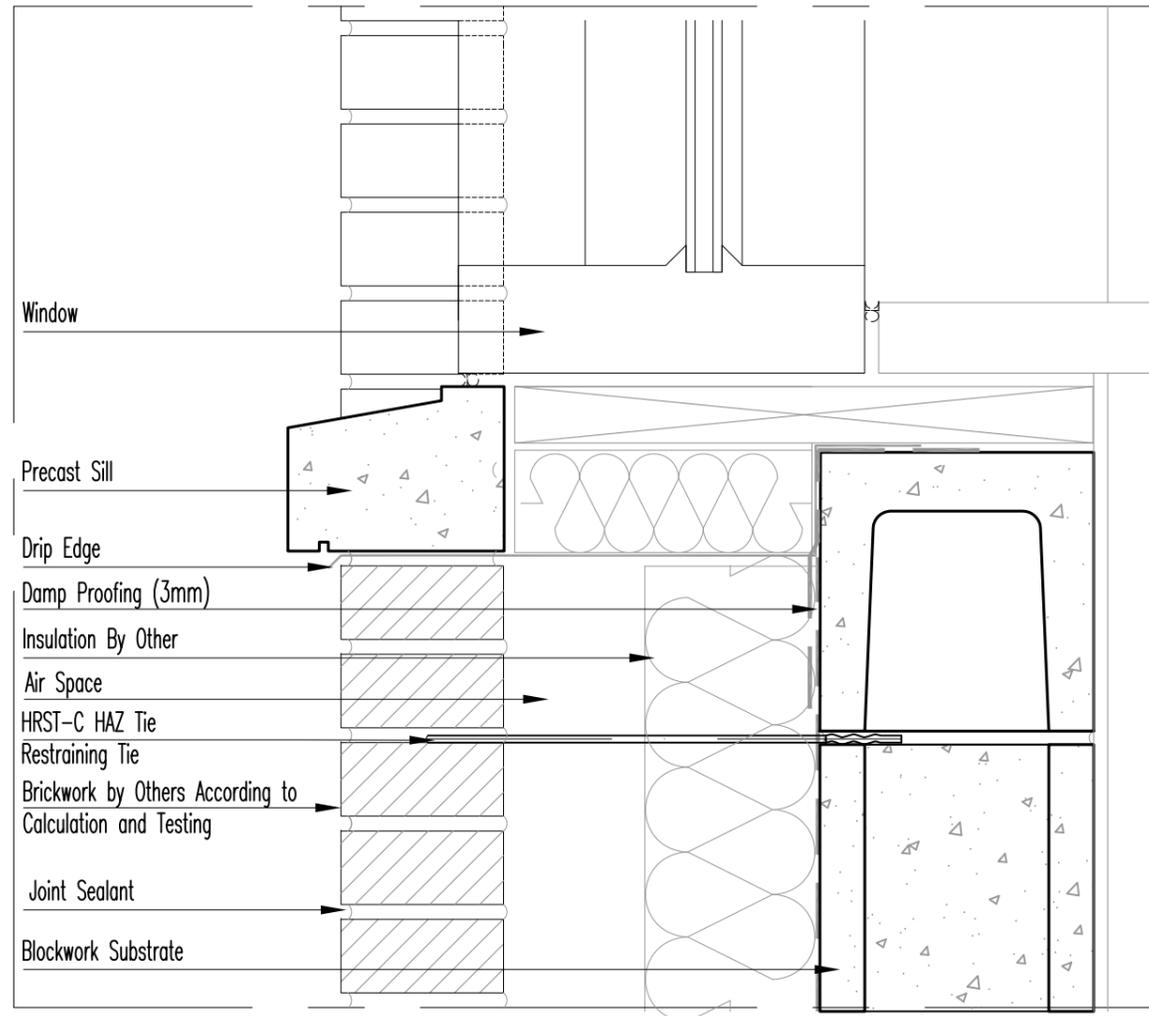
Drawing No. HAZCD-FIX-BS-29

Series Concept Drawings - Brickwork Fixing System - FIX

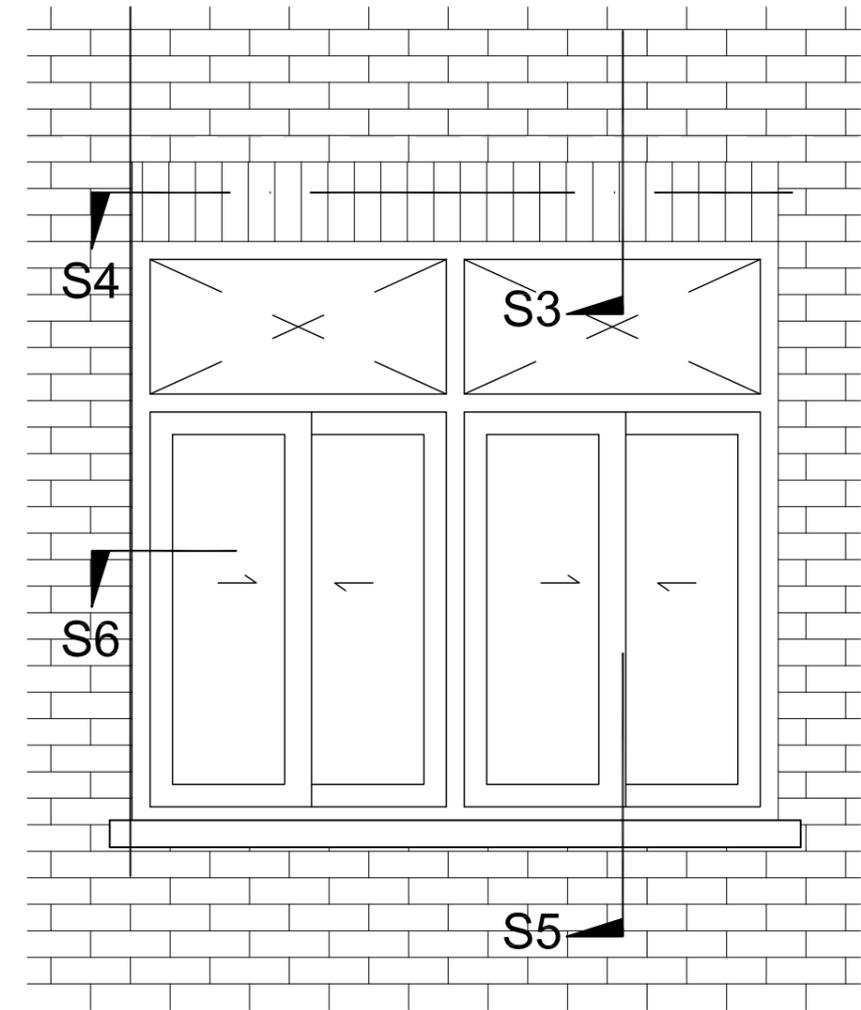
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HRST-C Restraining Tie



S5-Vertical section Scale 1:5



Elevation Scale 1:20



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Title : Brickwork Facade - Restraint Tie At Sill of window - Vertical Section

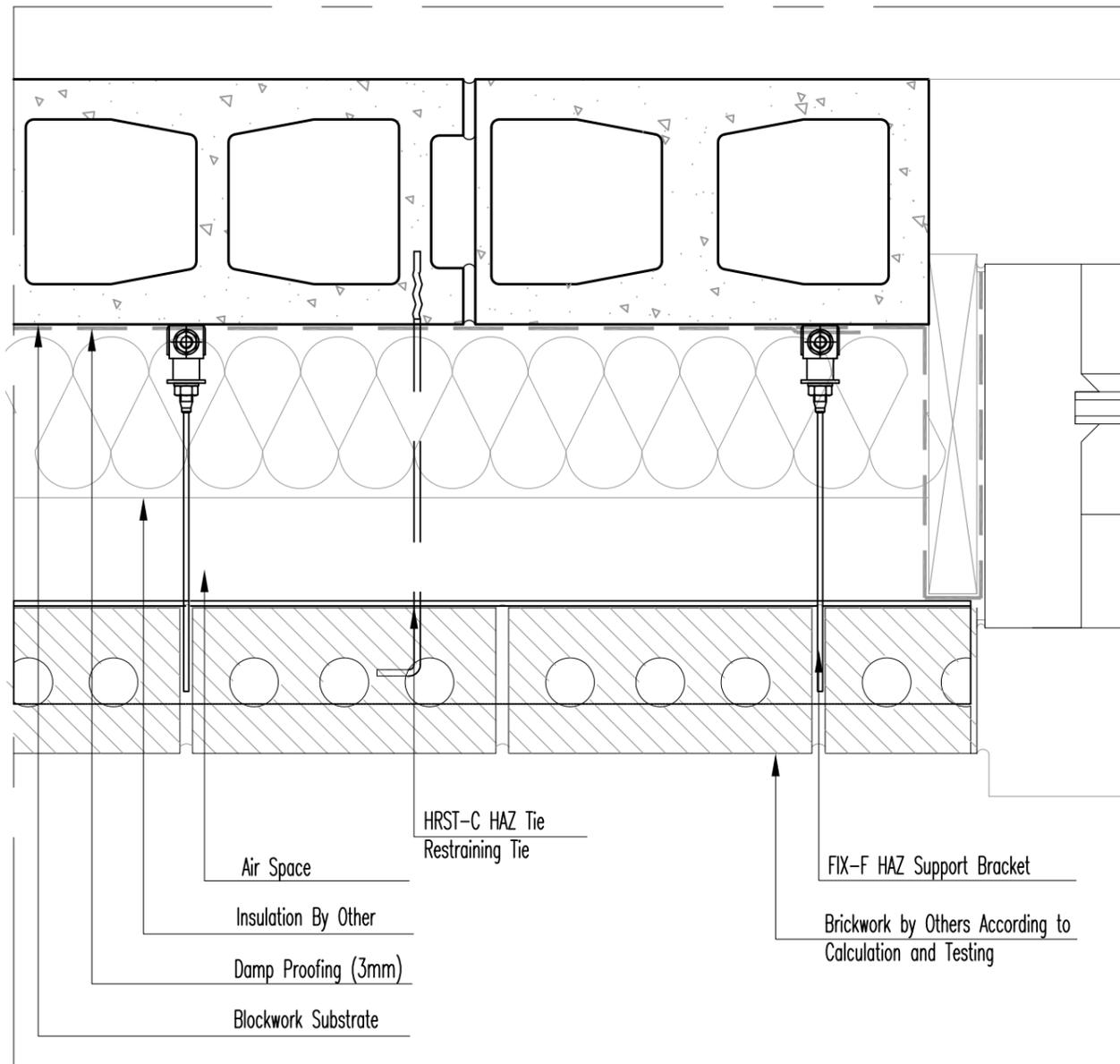
Drawing No. HAZCD-FIX-BS-30

Series Concept Drawings - Brickwork Fixing System - FIX

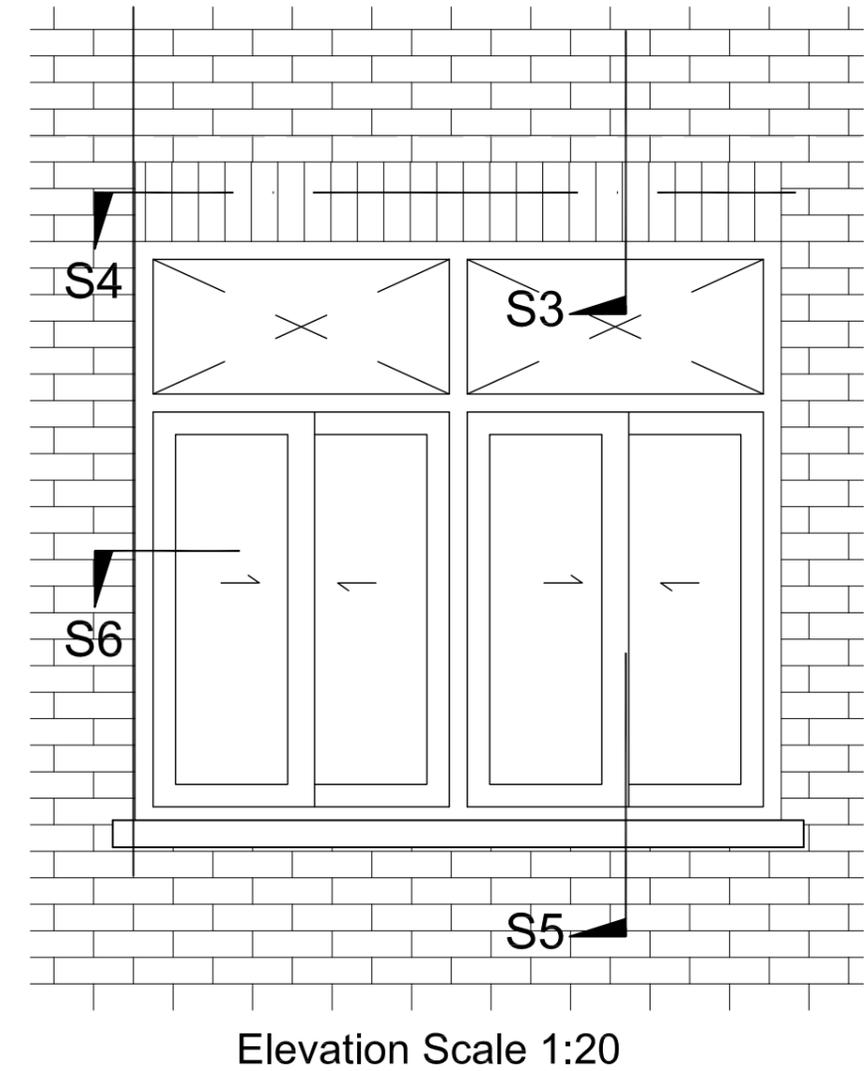
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HRST-C Restraining Tie



S6-Horizontal section at Window Scale 1:5



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Title : Brickwork Facade - Reveals of window - Vertical Section

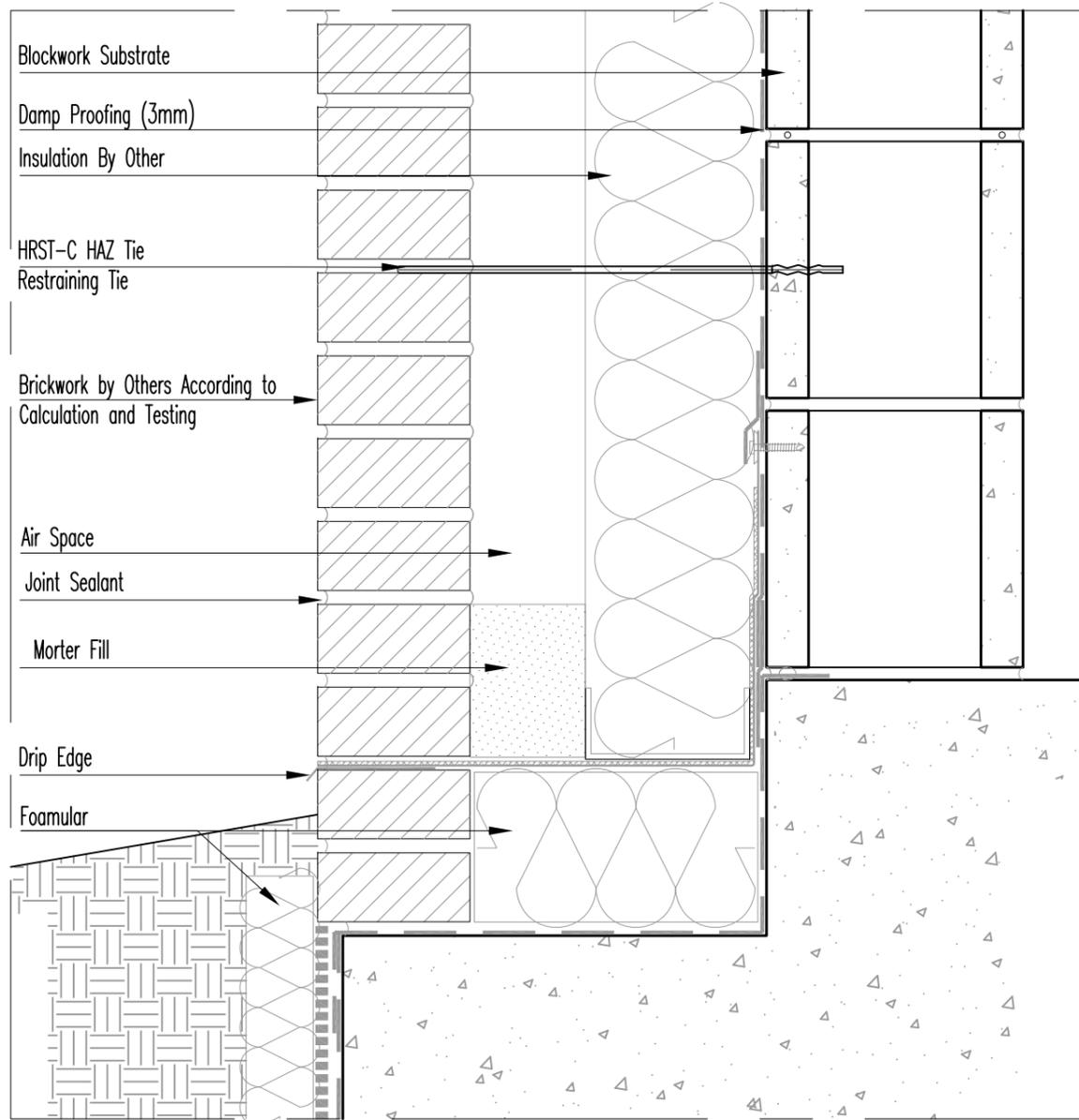
Drawing No. HAZCD-FIX-BS-31

Series Concept Drawings - Brickwork Fixing System - FIX

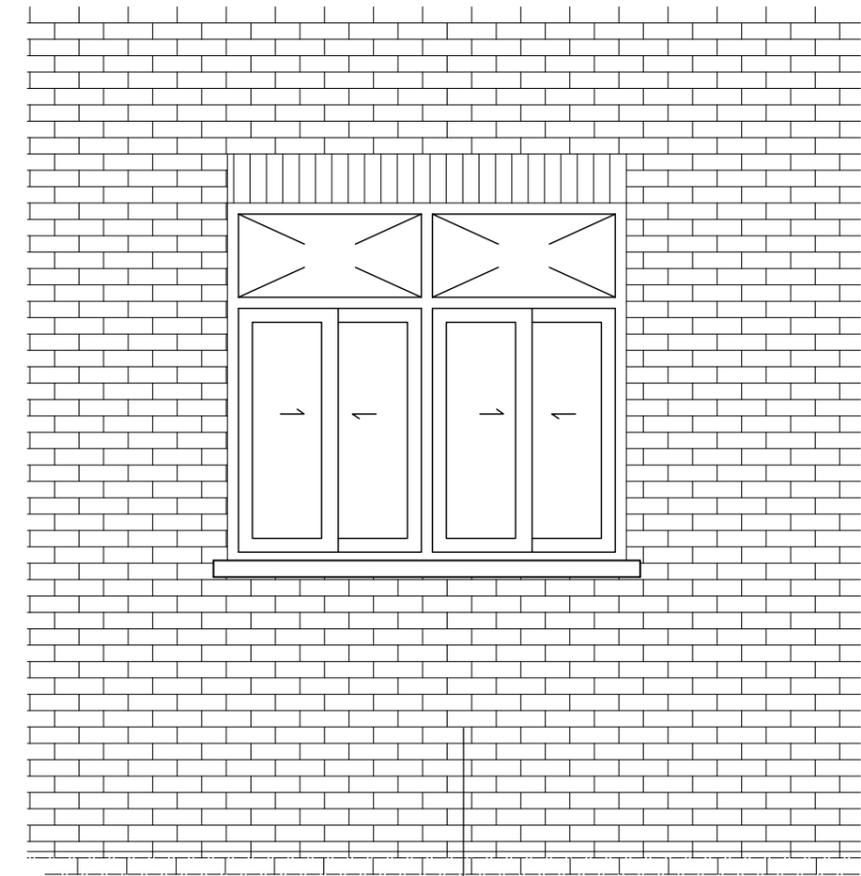
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HRST-C Restraining Tie



S6-Vertical section Scale 1:5



Elevation Scale 1:20



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Title : Brickwork Facade - Wall to Foundation Transition - Vertical Section

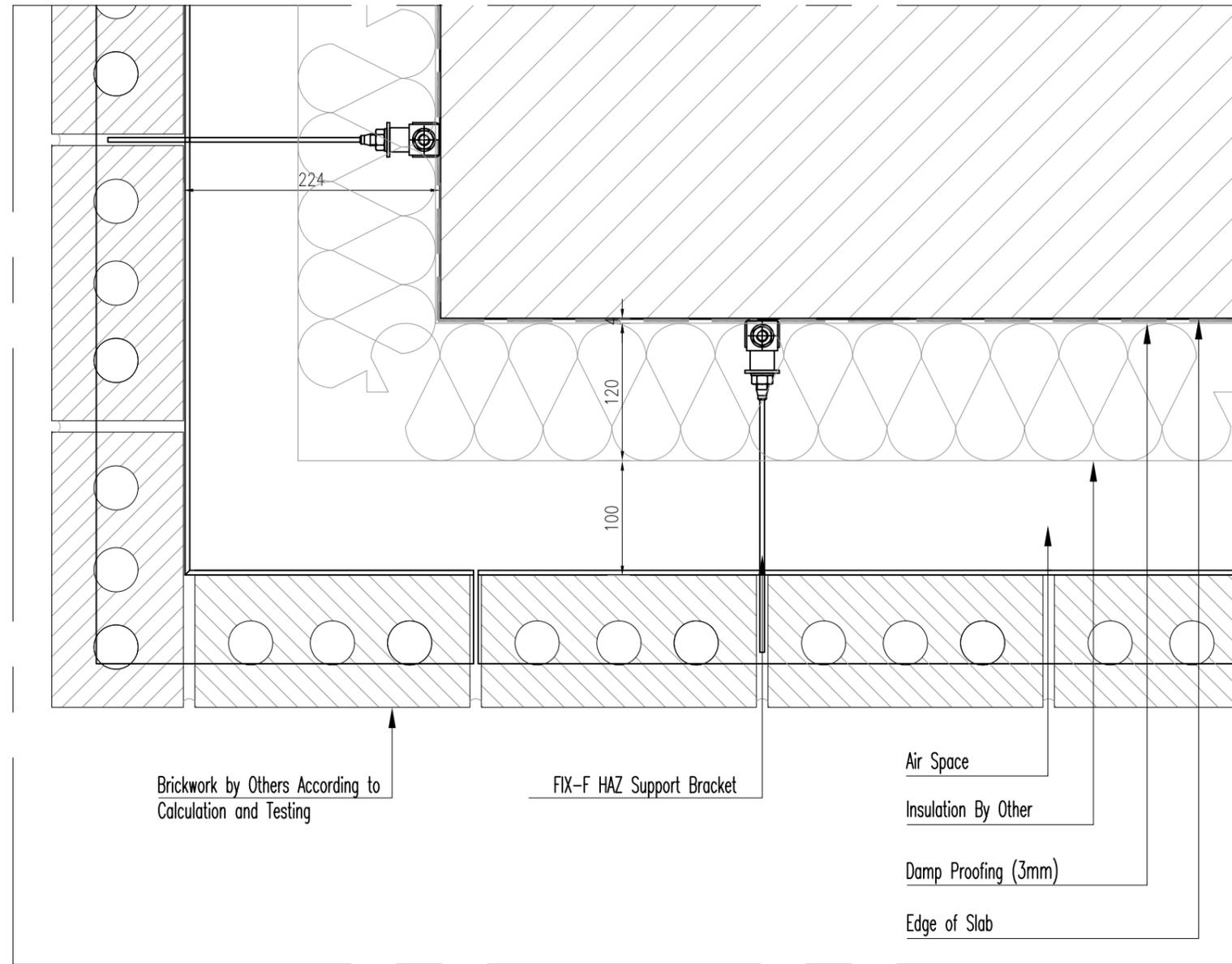
Drawing No. HAZCD-FIX-BS-32

Series Concept Drawings - Brickwork Fixing System - FIX

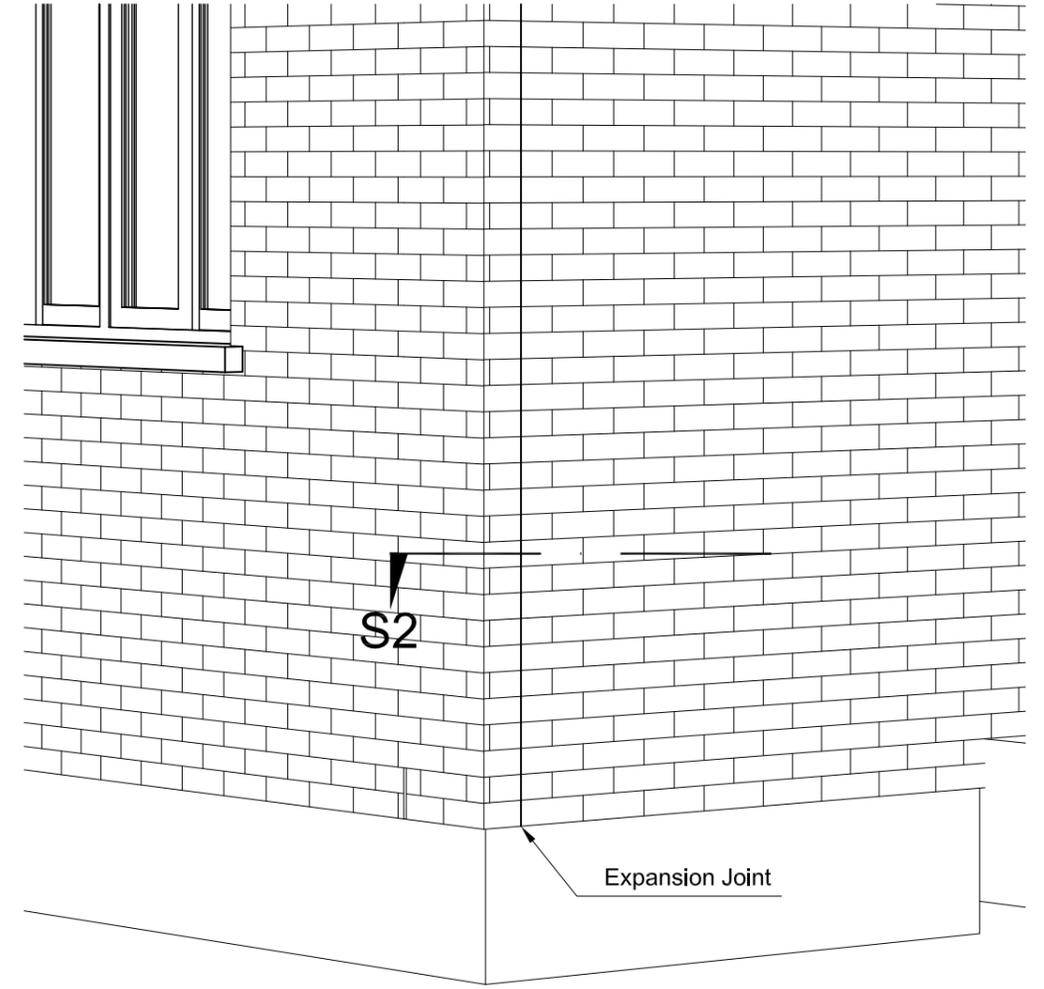
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FIX-F



S6-Vertical section Scale 1:5



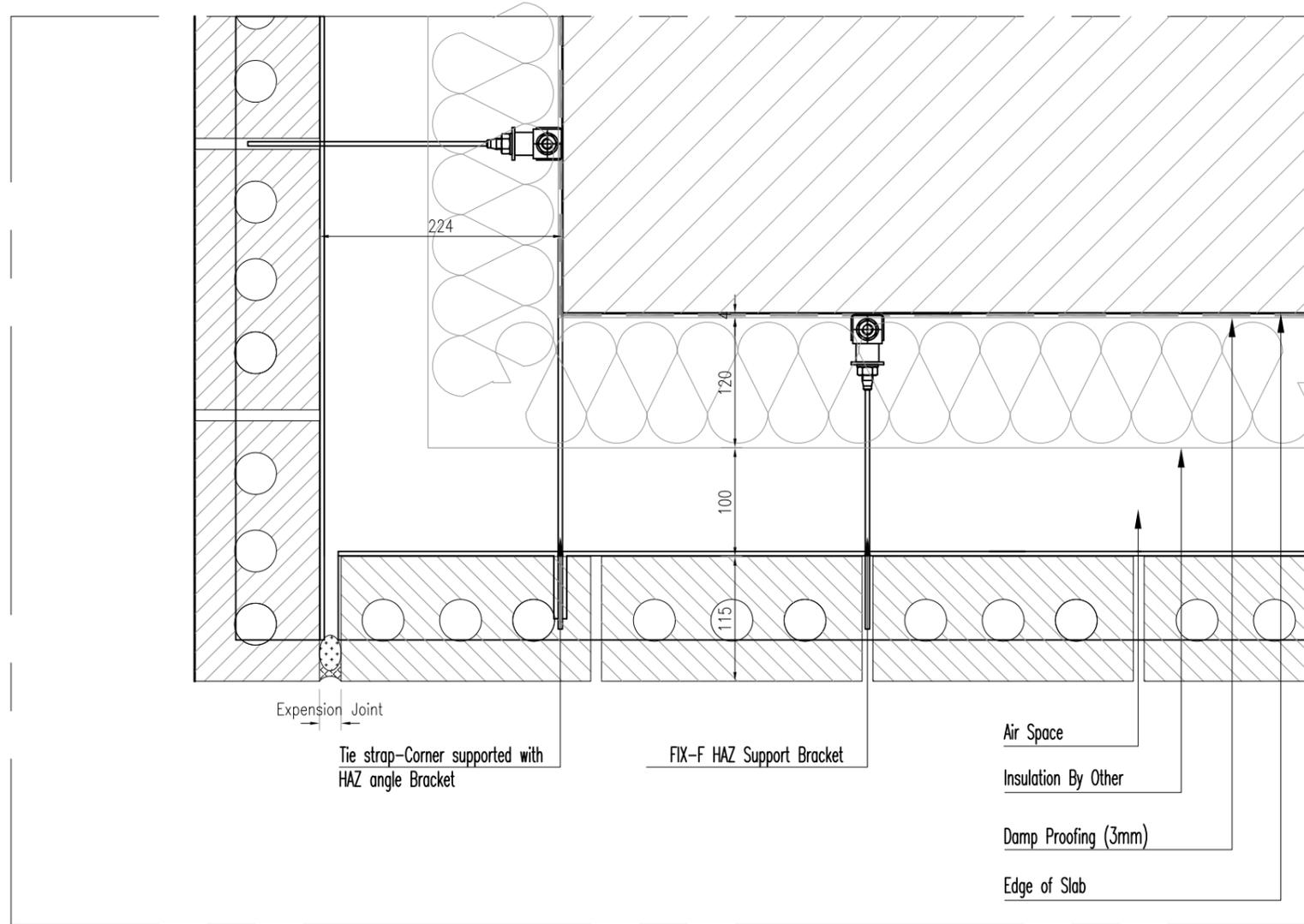
Perspective Scale 1:20



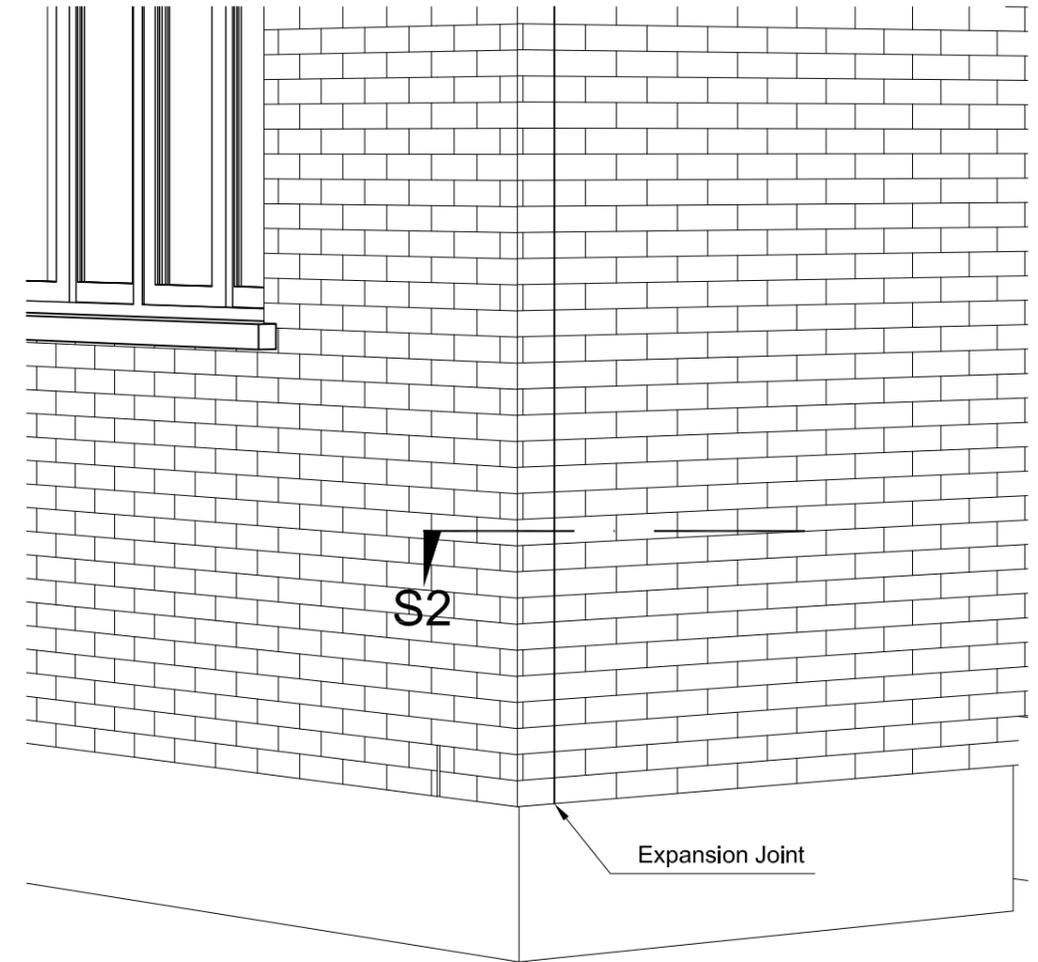
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Title : Brickwork Facade - Outer Corner - Horizontal Section	
Drawing No.	HAZCD-FIX-BS-33
Series	Concept Drawings - Brickwork Fixing System - FIX
Revision	01
scale	As Shown
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FIX-F



S1-Horizontal section Scale 1:5



Perspective Scale 1:20



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Title : Brickwork Facade - Outer Corner With Expansion Joint - Horizontal Section

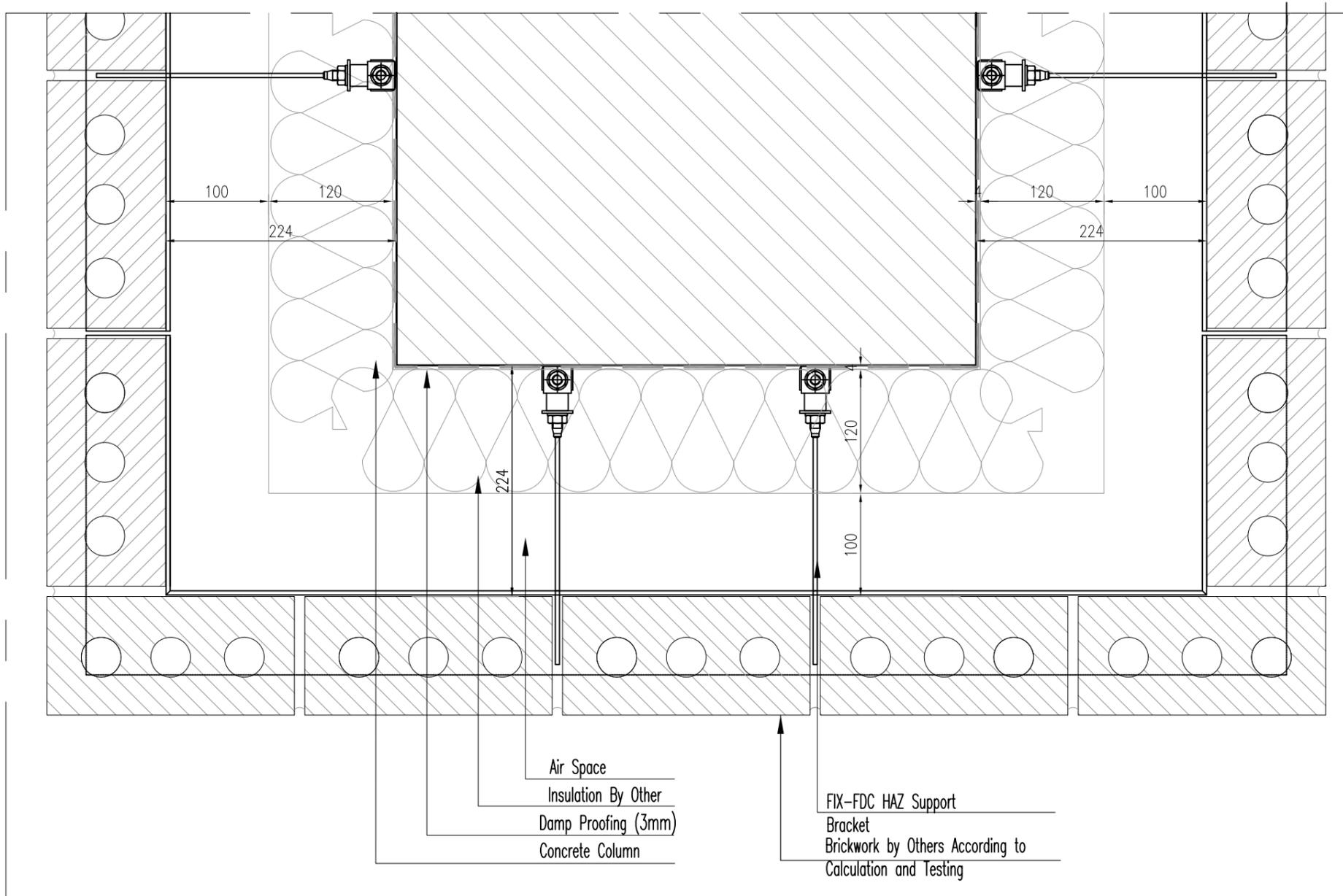
Drawing No. HAZCD-FIX-BS-34

Series Concept Drawings - Brickwork Fixing System - FIX

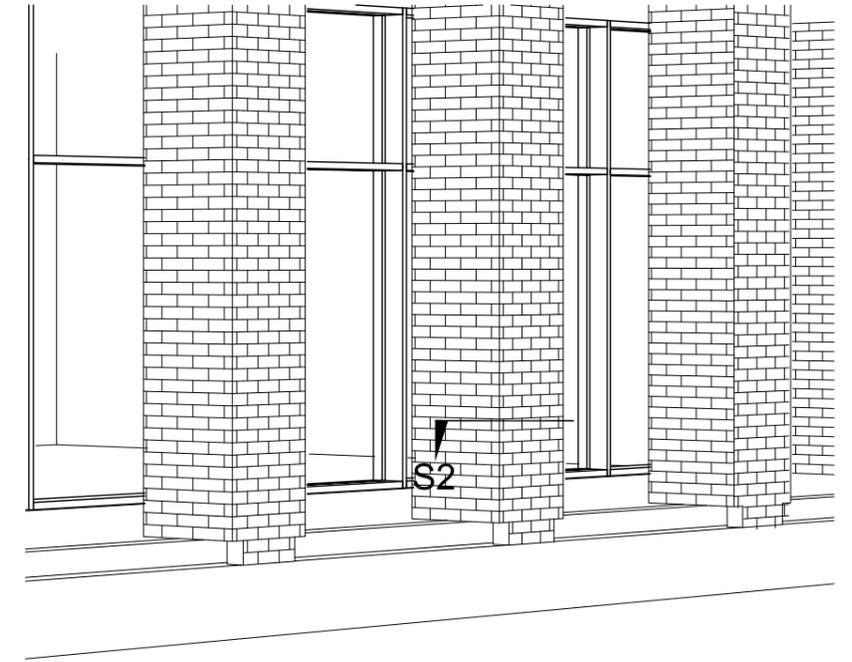
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FIX-FDC



S2-Horizontal section Scale 1:5



Perspective Scale 1:10



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Title : Brickwork Facade - FIX-FDC HAZ Support Bracket At Column - Horizontal Section

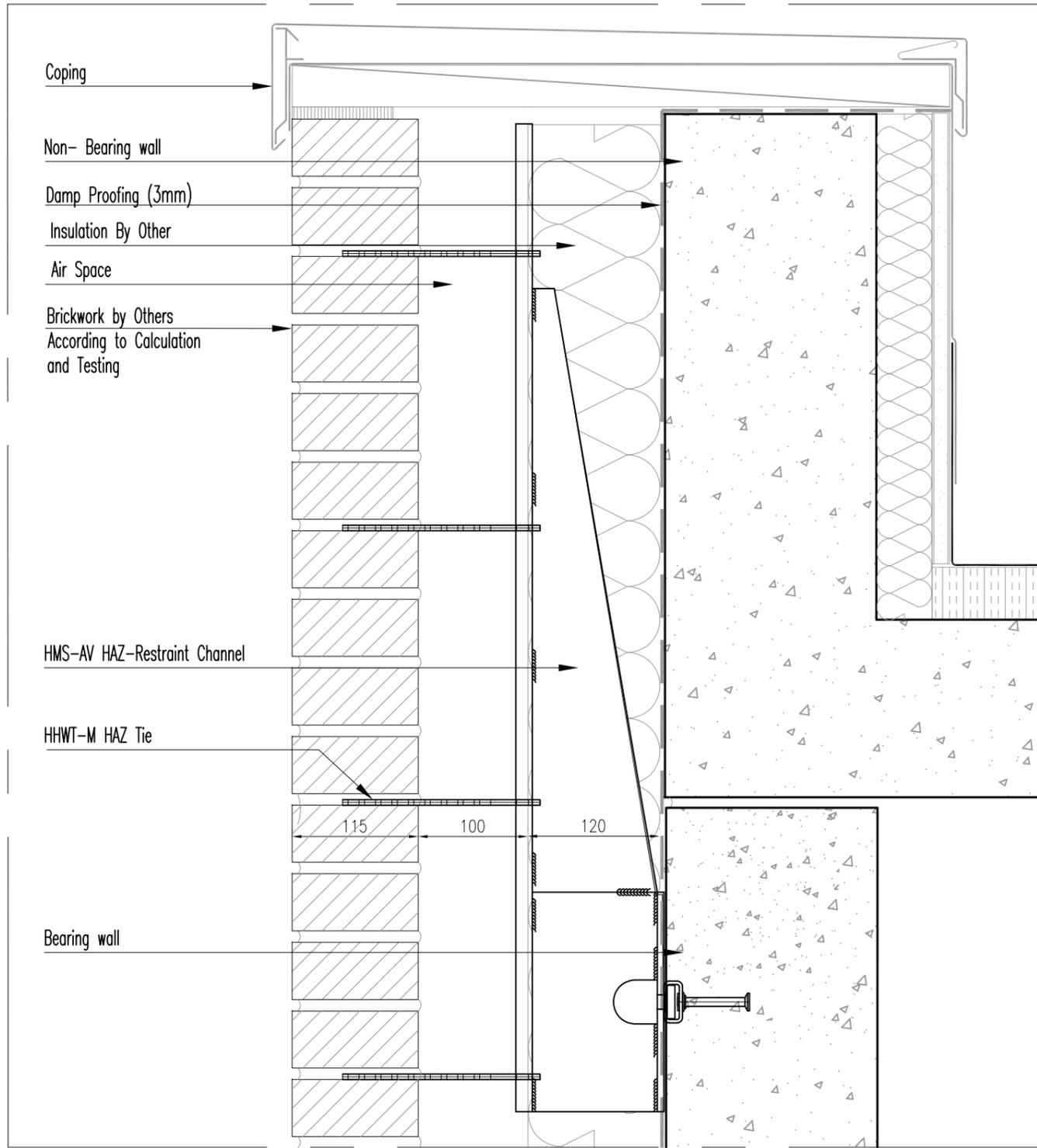
Drawing No. HAZCD-FIX-BS-35

Series Concept Drawings - Brickwork Fixing System - FIX

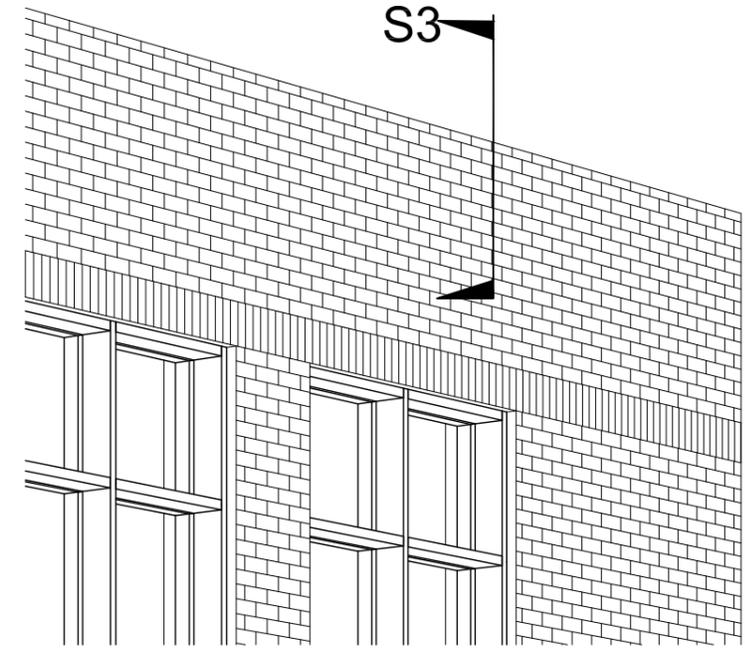
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HMS-AV



S3-Vertical section Scale 1:5



Perspective Scale 1:10



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Title : Brickwork Facade - Special Restraint At Upper Flat Reinforced Roof - Vertical Section

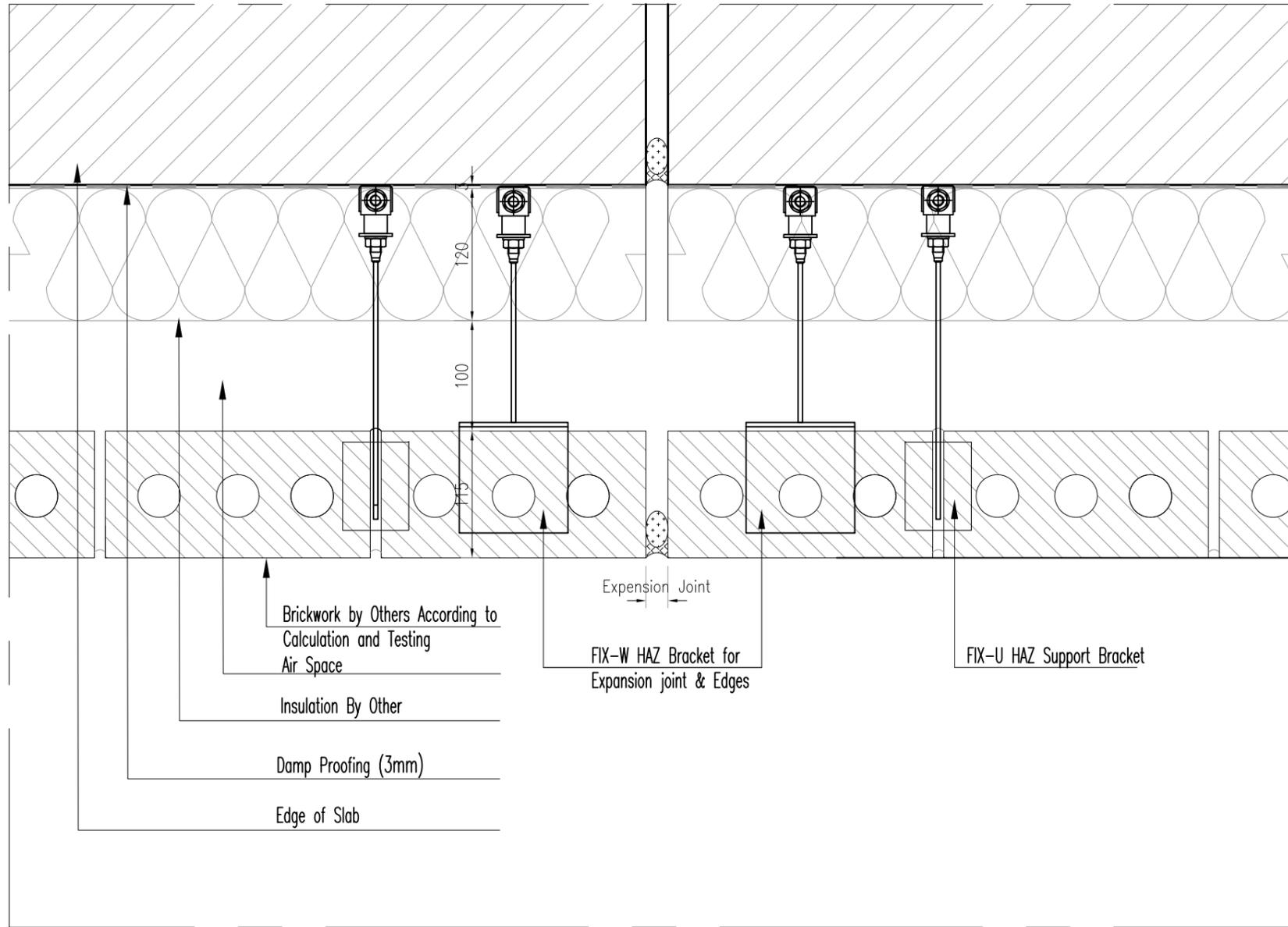
Drawing No. HAZCD-FIX-BS-36

Series Concept Drawings - Brickwork Fixing System - FIX

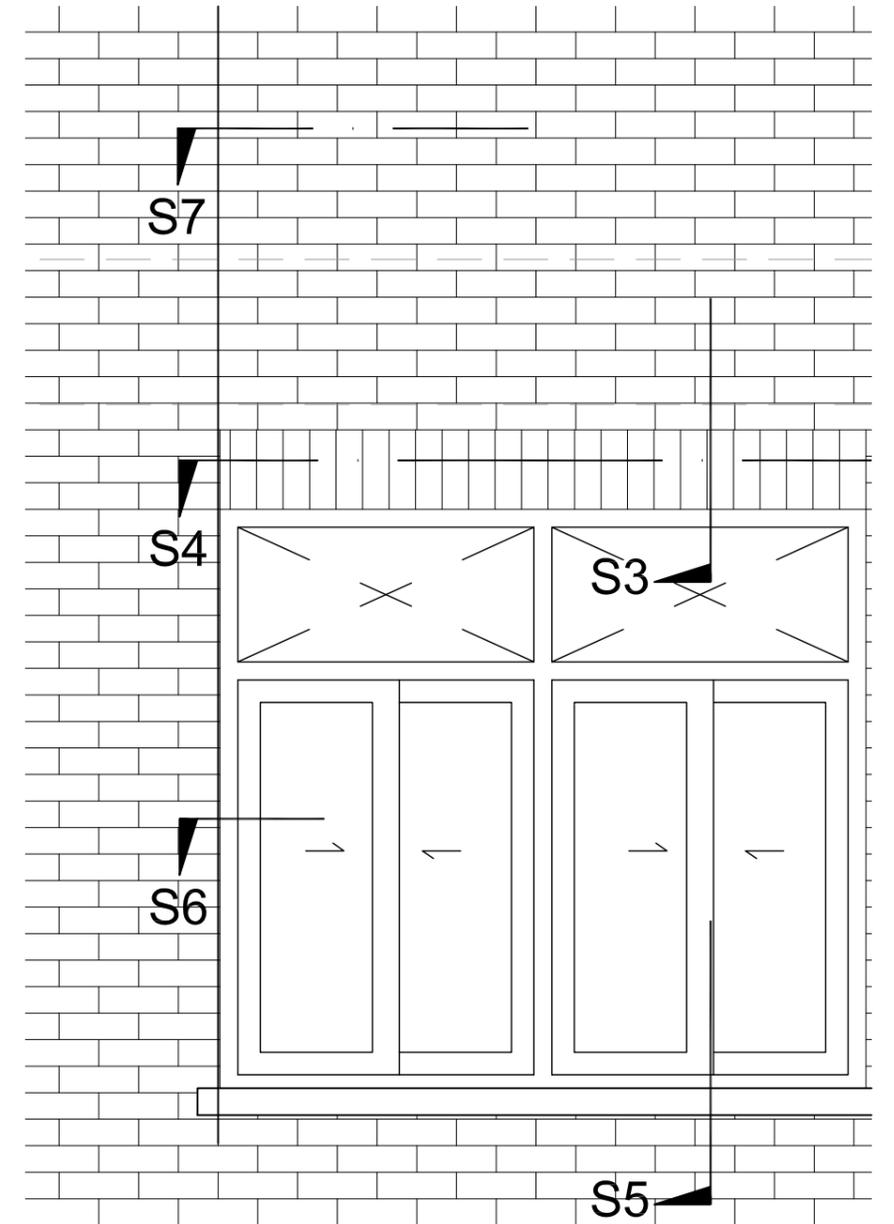
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FIX-W



S7-Horizontal section Scale 1:5



Perspective Scale 1:10



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Title : Brickwork Facade - Expansion Joint - Horizontal Section

Drawing No. HAZCD-FIX-BS-37

Series Concept Drawings - Brickwork Fixing System - FIX

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