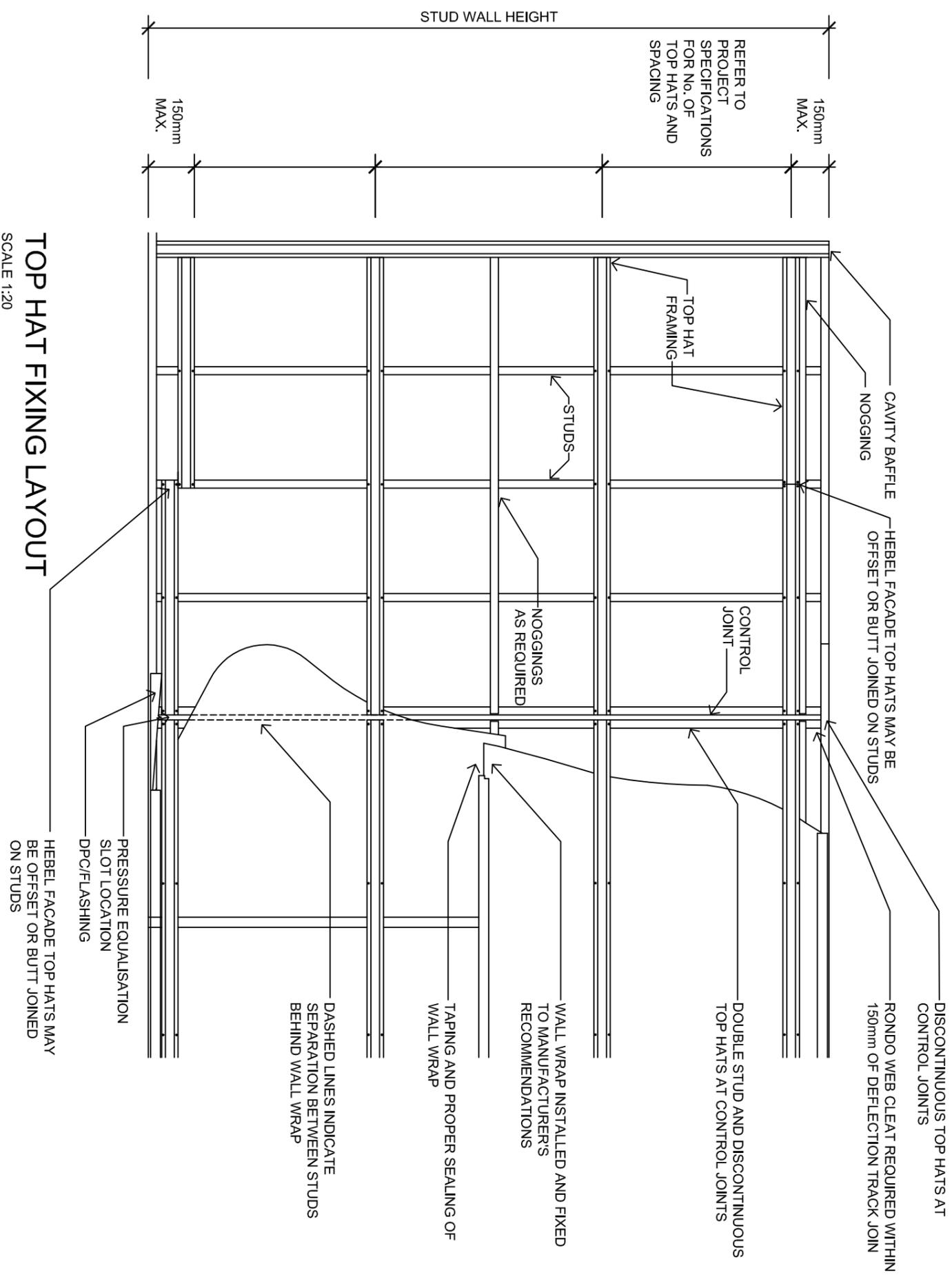


HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS



TOP HAT FIXING LAYOUT
SCALE 1:20

KEY ASSUMPTIONS AND REQUIREMENTS:

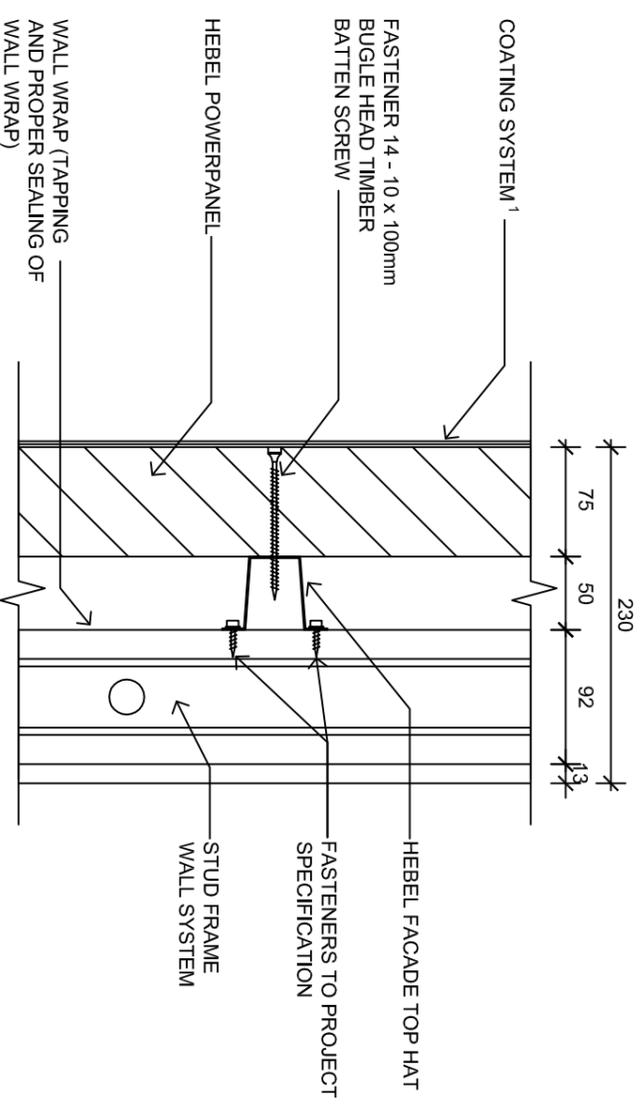
1. RONDO STEEL STUD FRAMING (OR APPROVED EQUIVALENT) MUST BE SPECIFIED IN ACCORDANCE WITH THE PROJECT WIND LOADS AS DETERMINED BY THE PROJECT DESIGN ENGINEER. A DESIGN CERTIFICATE PREPARED BY THE STUD FRAME MANUFACTURER OR PROJECT ENGINEER IN REGARDS TO THE STUD FRAMING SPECIFICATION MUST BE PROVIDED TO CSR HEBEL.
2. STEEL STUD FRAMING MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S OR PROJECT ENGINEERS SPECIFICATION.
3. THE BUILDER IS TO PROVIDE A LETTER OR CERTIFICATION FOR STUD INSTALLATION FOLLOWING COMPLETION OF STUD FRAMING PROVIDED TO CSR HEBEL.
4. THE PROJECT DESIGN ENGINEER SHALL DESIGN THE STUDS AND TOP HAT SPACING IN ACCORDANCE TO TABLES 2.2 & 2.3 PROVIDED IN HEBEL HIGH RISE FACADE DESIGN AND INSTALLATION GUIDE.
5. THE PANEL MUST BE SET DOWN ON REBATE.

NOTE:
1. THIS DRAWING IS BASED ON THE CRITERIA YOU HAVE SELECTED AND ANY ADDITIONAL ASSUMPTIONS LISTED ON IT. THE DRAWING REFLECTS 'TYPICAL' CONSTRUCTION DETAILS AND SHOULD BE READ IN ASSOCIATION WITH THE CURRENT DESIGN AND INSTALLATION GUIDE.

2. CSR HEBEL IS NOT IN A POSITION TO ASSESS THE FULL RANGE OF FACTORS THAT CAN INFLUENCE THE REQUIRED DESIGN OF ANY PARTICULAR PROJECT AND THE INTERPLAY BETWEEN THE DESIGN DETAILS SHOWN HERE AND OTHER ELEMENTS OF THE OVERALL PROJECT DESIGN. YOUR PROJECT ENGINEER SHOULD REVIEW THE MATERIAL REFERRED TO ABOVE AND DETERMINE THE SUITABILITY OF THIS SYSTEM FOR INCLUSION IN THE PROJECT DESIGN.

<p>CSR BUILDING PRODUCTS LTD Head Office: Trillia 3, 38 DEWIL RD, NORTH RYDE, NSW 2113 LOCKED BAG 3345, NORTH RYDE, NSW 1570 A.B.N. 55 008 631 356 P.O. Box 1300, 389 448 www.hebelaustralia.com.au</p>	<p>The better way to build CSR Building Products Limited A.B.N. 55 008 631 356</p>	FIGURE	TITLE	SHEET NO.	DATE
		3.3	HIGH RISE MULTI-RESIDENTIAL FACADES CONSTRUCTION DETAILS	1 of 17	
<p>DESIGN GUIDE REFERENCE</p>		SCALE	DRAWN	CHECK	REVISION
		1:20 @ A3			

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS



TOP HAT FIXING DETAIL

SCALE: 1:5

KEY ASSUMPTIONS AND REQUIREMENTS:

1. COMPATIBLE ACRYLIC COATING SYSTEM TO SUITE HEBEL SUBSTRATE.
2. TAPING AND PROPER SEALING OF WALL WRAP.

NOTE:

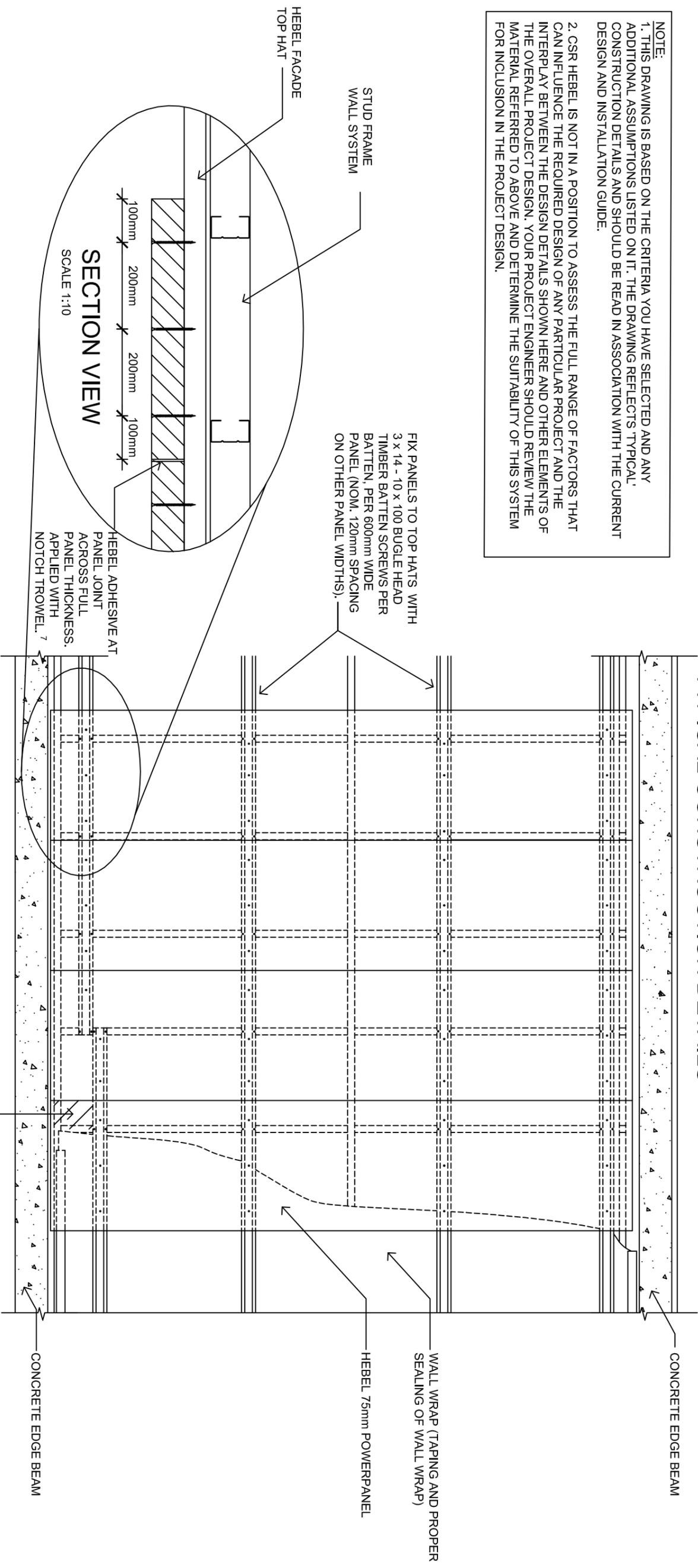
1. THIS DRAWING REFLECTS TYPICAL CONSTRUCTION DETAILS BASED ON THE ASSUMPTIONS SET OUT SEPARATELY ON THIS PAGE. IT SHOULD BE READ IN CONJUNCTION WITH THE RELEVANT DESIGN AND INSTALLATION GUIDE (ALSO AVAILABLE ON HEBELSPEC); AND
2. CSR HEBEL IS NOT IN A POSITION TO ASSESS THE FULL RANGE OF FACTORS THAT CAN INFLUENCE THE REQUIRED DESIGN OF ANY PARTICULAR PROJECT AND THE INTERPLAY BETWEEN THE DESIGN DETAILS SHOWN HERE AND OTHER ELEMENTS OF THE OVERALL PROJECT DESIGN. YOUR PROJECT ENGINEER SHOULD REVIEW THE MATERIAL REFERRED TO ABOVE AND DETERMINE THE SUITABILITY OF THIS SYSTEM FOR INCLUSION IN THE PROJECT DESIGN.

 <p>CSR BUILDING PRODUCTS LTD Head Office: Tenth 3, 38 DEWIL RD, NORTH RYDE, NSW 2113 LOCKED BAG 3345, NORTH RYDE BC, NSW 1670 A.B.N. 55 008 631 356 Ptn: 1300 369 848 www.hebelusafrica.com.au</p>	 <p>The better way to build CSR Building Products Limited A.B.N. 55 008 631 356</p>	FIGURE	3.4	TITLE	HIGH RISE MULTI-RESIDENTIAL FACADES	SHEET NO. 2 of 17	CHECK	REVISION
		DESIGN GUIDE REFERENCE		SCALE	1:5 @ A3			

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS

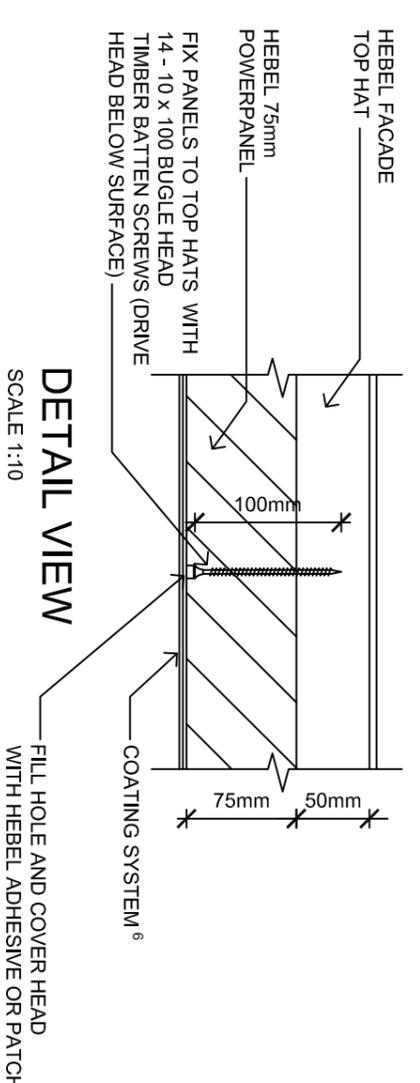
NOTE:

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HEBEL POWERPANEL FIXING DETAIL (VISIBLE EDGE BEAM SHOWN)
SCALE 1:20

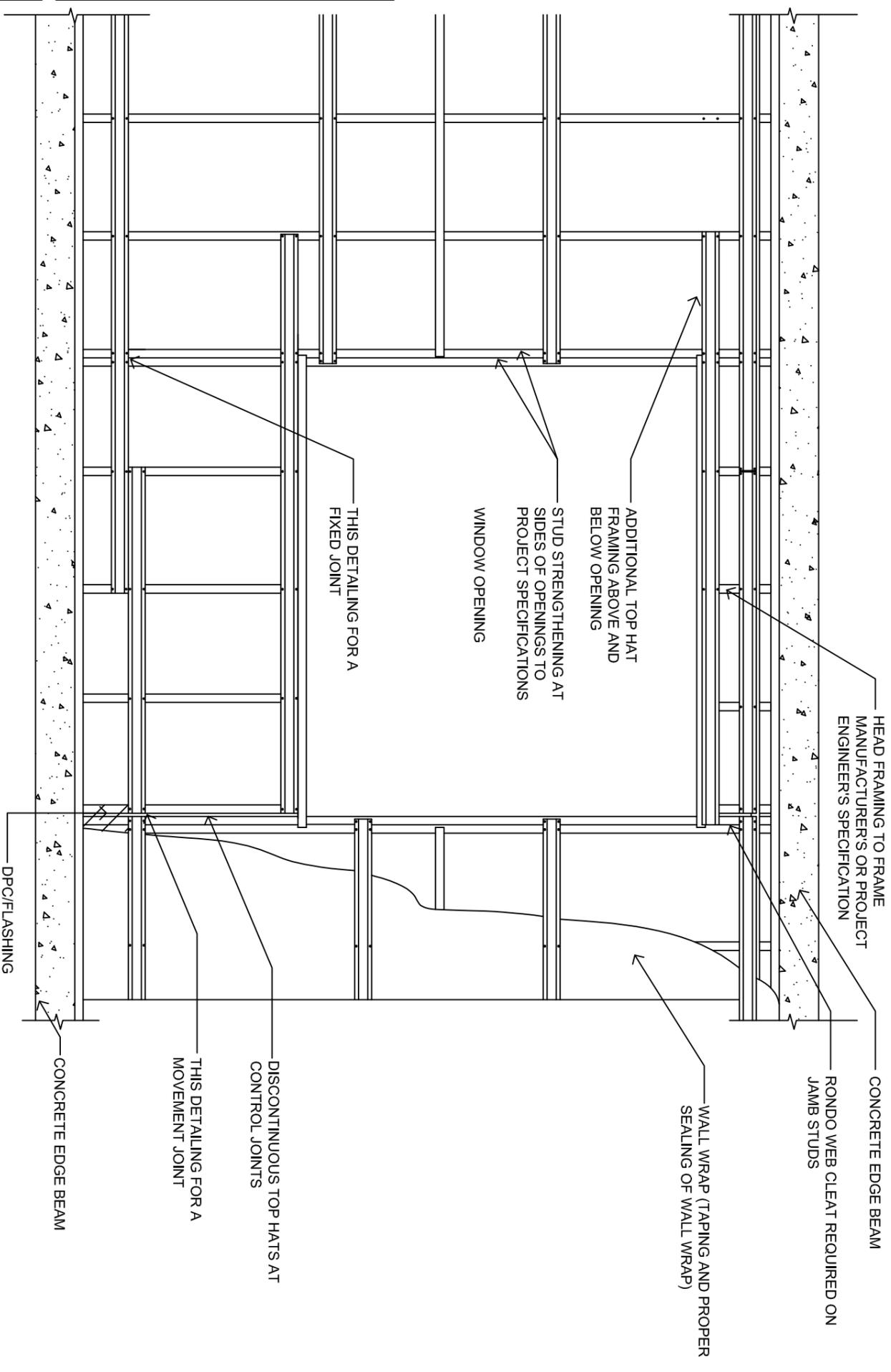
- KEY ASSUMPTIONS AND REQUIREMENTS:**
1. RONDO STEEL STUD FRAMING (OR APPROVED EQUIVALENT) MUST BE SPECIFIED IN ACCORDANCE WITH THE PROJECT WIND LOADS AS DETERMINED BY THE PROJECT DESIGN ENGINEER. A DESIGN CERTIFICATE PREPARED BY THE STUD FRAME MANUFACTURER OR PROJECT ENGINEER IN REGARDS TO THE STUD FRAMING SPECIFICATION MUST BE PROVIDED TO CSR HEBEL.
 2. STEEL STUD FRAMING MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S OR PROJECT ENGINEER'S SPECIFICATION.
 3. THE BUILDER IS TO PROVIDE A LETTER OR CERTIFICATION FOR STUD INSTALLATION FOLLOWING COMPLETION OF STUD FRAMING PROVIDED TO CSR HEBEL.
 4. THE PROJECT DESIGN ENGINEER SHALL DESIGN THE STUDS AND TOP HAT SPACING IN ACCORDANCE TO TABLES 2.2 & 2.3 PROVIDED IN HEBEL HIGH RISE FACADE DESIGN AND INSTALLATION GUIDE.
 5. THE PANEL MUST BE SET DOWN ON REBATE.
 6. COMPATIBLE ACRYLIC COATING SYSTEM TO SUITE HEBEL SUBSTRATE.
 7. THE ADHESIVE SHALL BE APPLIED EVENLY ACROSS THE PANEL THICKNESS TO ENSURE A FULL ADHESIVE JOINT BETWEEN PANELS. THE ADHESIVE THAT SQUEEZES OUT AT THE PANEL JOINTS SHOULD BE SCRAPED AWAY AND LEVELLED AT THE JOINTS.



DETAIL VIEW
SCALE 1:10

<p>CSR BUILDING PRODUCTS LTD Head Office: Tenthra, 38 DEWUL RD, NORTH RYDE, NSW 2113 LOCKED BAG 3345, NORTH RYDE, NSW 1570 A.B.N. 55 008 631 356 P.O. Box 1300, 369 448 www.hebelusa.com.au</p>	<p>The better way to build CSR Building Products Limited A.B.N. 55 008 631 356</p>	FIGURE	HIGH RISE MULTI-RESIDENTIAL FACADES		
		3.5	TITLE	CONSTRUCTION DETAILS	SCALE
DESIGN GUIDE REFERENCE		SHEET SIZE	A3	DATE	
		SHEET NO.	3 of 17	REVISION	

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS



**WINDOW OPENING DETAIL (VISIBLE EDGE BEAM SHOWN)
BEHIND POWERPANEL**
SCALE 1:20

KEY ASSUMPTIONS AND REQUIREMENTS:
 1. RONDO STEEL STUD FRAMING (OR APPROVED EQUIVALENT) MUST BE SPECIFIED IN ACCORDANCE WITH THE PROJECT WIND LOADS AS DETERMINED BY THE PROJECT DESIGN ENGINEER. A DESIGN CERTIFICATE PREPARED BY THE STUD FRAME MANUFACTURER OR PROJECT ENGINEER IN REGARDS TO THE STUD FRAMING SPECIFICATION MUST BE PROVIDED TO CSR HEBEL.
 2. STEEL STUD FRAMING MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS OR PROJECT ENGINEER'S SPECIFICATION.
 3. THE BUILDER IS TO PROVIDE A LETTER OR CERTIFICATION FOR STUD INSTALLATION FOLLOWING COMPLETION OF STUD FRAMING PROVIDED TO CSR HEBEL.
 4. THE PROJECT DESIGN ENGINEER SHALL DESIGN THE STUDS AND TOP HAT SPACING IN ACCORDANCE TO TABLES 2.2 & 2.3 PROVIDED IN HEBEL HIGH RISE FACADE DESIGN AND INSTALLATION GUIDE.
 5. THE PANEL MUST BE SET DOWN ON REBATE.

NOTE A:
 FOR MAJOR OPENINGS IN THE HEBEL POWERPANEL SYSTEM FOR FACADES, CSR HEBEL RECOMMENDS LOCATING MOVEMENT JOINTS ADJACENT TO THE OPENING.

CONTROL JOINTS AT DOOR/WINDOW OPENINGS:
 - DOOR/WINDOWS WIDTH ≤ 2400mm - A CONTROL JOINT IS TO BE PROVIDED TO ONE SIDE OF THE OPENING (MINIMUM MUST BE PROVIDED)
 - DOOR/WINDOWS WIDTH > 2400mm - CONTROL JOINTS TO BOTH SIDES OF THE OPENING MUST BE PROVIDED

NOTE B:
 1. THIS DRAWING IS BASED ON THE CRITERIA YOU HAVE SELECTED AND ANY ADDITIONAL ASSUMPTIONS LISTED ON IT. THE DRAWING REFLECTS 'TYPICAL' CONSTRUCTION DETAILS AND SHOULD BE READ IN ASSOCIATION WITH THE CURRENT DESIGN AND INSTALLATION GUIDE.

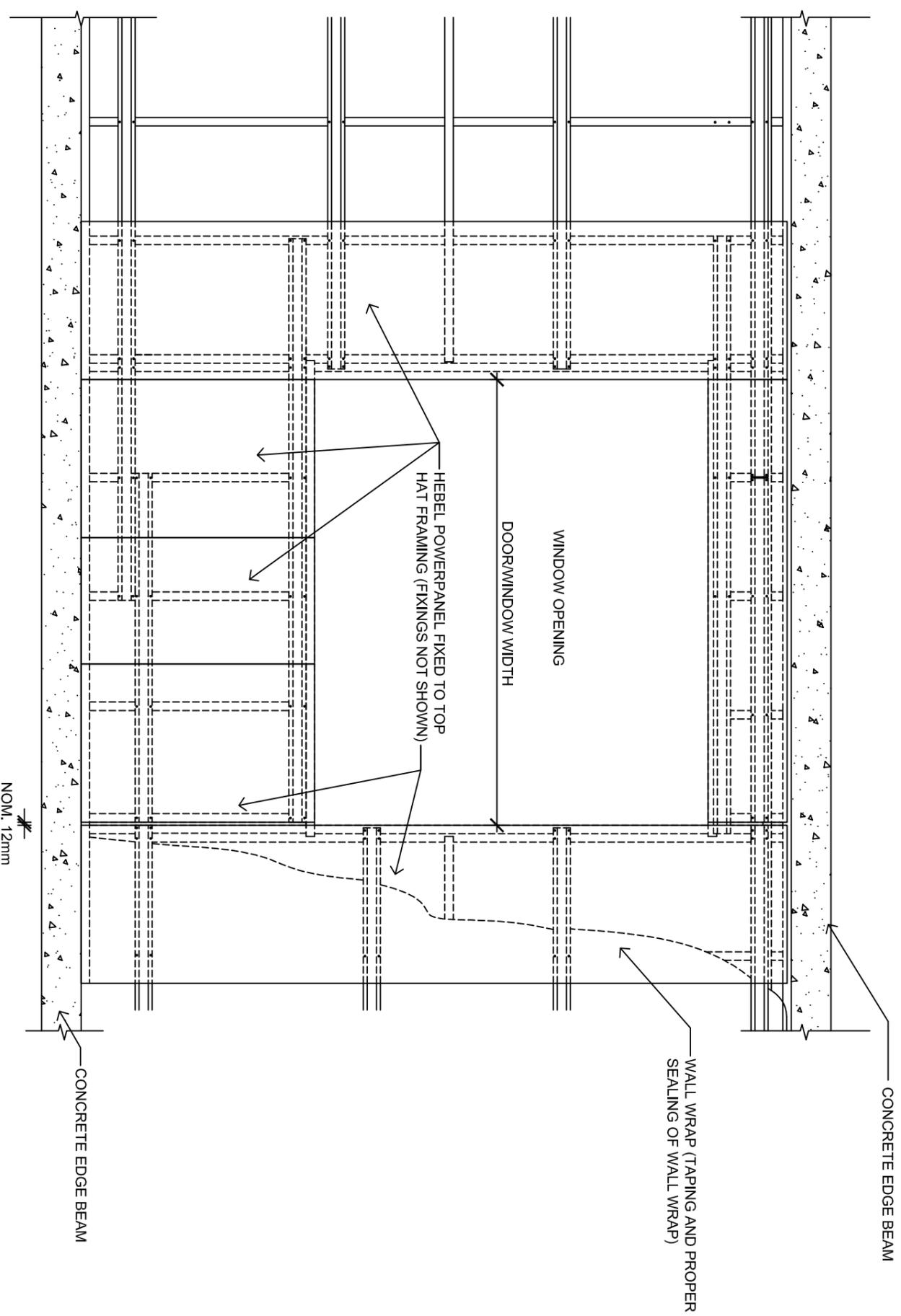
2. CSR HEBEL IS NOT IN A POSITION TO ASSESS THE FULL RANGE OF FACTORS THAT CAN INFLUENCE THE REQUIRED DESIGN OF ANY PARTICULAR PROJECT AND THE INTERPLAY BETWEEN THE DESIGN DETAILS SHOWN HERE AND OTHER ELEMENTS OF THE OVERALL PROJECT DESIGN. YOUR PROJECT ENGINEER SHOULD REVIEW THE MATERIAL REFERRED TO ABOVE AND DETERMINE THE SUITABILITY OF THIS SYSTEM FOR INCLUSION IN THE PROJECT DESIGN.

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 www.hebelusahebel.com.au

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 The better way to build
 CSR Building Products Limited
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 Fax: (02) 9260 3300
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FIGURE	3.6	TITLE	HIGH RISE MULTI-RESIDENTIAL FACADES CONSTRUCTION DETAILS	SHEET NO.	4 of 17	CHECK		REVISION	
DESIGN GUIDE REFERENCE		SCALE	1:20 @ A3	SHEET SIZE	A3	DRAWN		DATE	

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS



**WINDOW OPENING DETAIL (VISIBLE EDGE BEAM SHOWN)
IN FRONT OF POWERPANEL**

SCALE 1:20

KEY ASSUMPTIONS AND REQUIREMENTS:

1. RONDO STEEL STUD FRAMING (OR APPROVED EQUIVALENT) MUST BE SPECIFIED IN ACCORDANCE WITH THE PROJECT WIND LOADS AS DETERMINED BY THE PROJECT DESIGN ENGINEER. A DESIGN CERTIFICATE PREPARED BY THE STUD FRAME MANUFACTURER OR PROJECT ENGINEER IN REGARDS TO THE STUD FRAMING SPECIFICATION MUST BE PROVIDED TO CSR HEBEL.
2. STEEL STUD FRAMING MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S OR PROJECT ENGINEER'S SPECIFICATION.
3. THE BUILDER IS TO PROVIDE A LETTER OR CERTIFICATION FOR STUD INSTALLATION FOLLOWING COMPLETION OF STUD FRAMING PROVIDED TO CSR HEBEL.
4. THE PROJECT DESIGN ENGINEER SHALL DESIGN THE STUDS AND TOP HAT SPACING IN ACCORDANCE TO TABLES 2.2 & 2.3 PROVIDED IN HEBEL HIGH RISE FACADE DESIGN AND INSTALLATION GUIDE.
5. THE PANEL MUST BE SET DOWN ON REBATE.

NOTE A:
FOR MAJOR OPENINGS IN THE HEBEL POWERPANEL SYSTEM FOR FACADES, CSR HEBEL RECOMMENDS LOCATING MOVEMENT JOINTS ADJACENT TO THE OPENING.

CONTROL JOINTS AT DOOR/WINDOW OPENINGS:

- DOOR/WINDOWS WIDTH ≤ 2400mm - A CONTROL JOINT IS TO BE PROVIDED TO ONE SIDE OF THE OPENING (MINIMUM MUST BE PROVIDED)
- DOOR/WINDOWS WIDTH > 2400mm - CONTROL JOINTS TO BOTH SIDES OF THE OPENING MUST BE PROVIDED

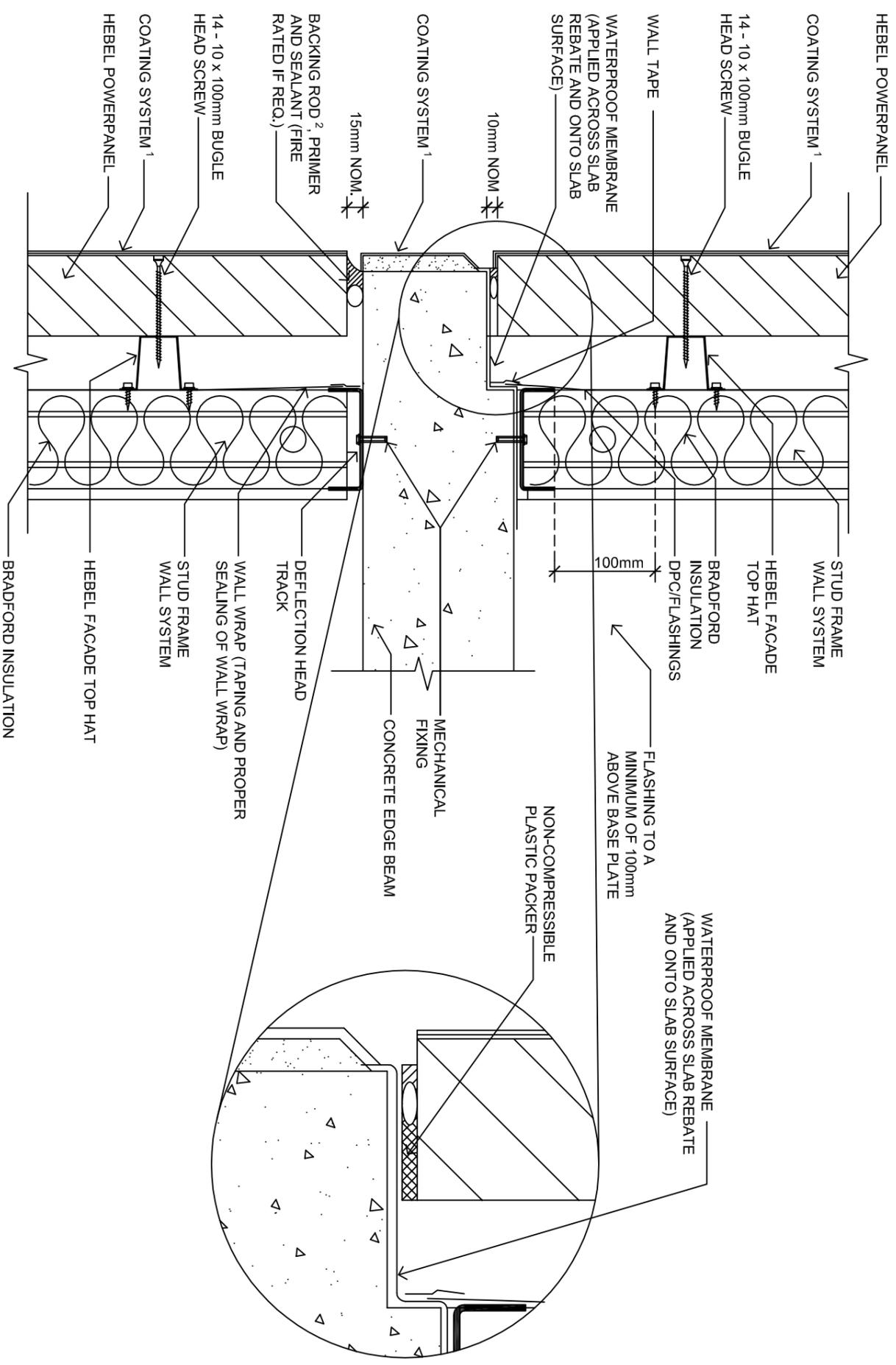
NOTE B:

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2. CSR HEBEL IS NOT IN A POSITION TO ASSESS THE FULL RANGE OF FACTORS THAT CAN INFLUENCE THE REQUIRED DESIGN OF ANY PARTICULAR PROJECT AND THE INTERPLAY BETWEEN THE DESIGN DETAILS SHOWN HERE AND OTHER ELEMENTS OF THE OVERALL PROJECT DESIGN. YOUR PROJECT ENGINEER SHOULD REVIEW THE MATERIAL REFERRED TO ABOVE AND DETERMINE THE SUITABILITY OF THIS SYSTEM FOR INCLUSION IN THE PROJECT DESIGN.

<p>CSR BUILDING PRODUCTS LTD Head Office: T11/113, 38 DEWIL RD, NORTH RYDE NSW 2113 LOCKED BAG 3345, NORTH RYDE BC NSW 1570 A.B.N. 55 008 631 356 Ptn: 1300 369 448 www.hebelusahebel.com.au</p>	<p>The better way to build CSR Building Products Limited A.B.N. 55 008 631 356</p>	FIGURE	3.7	TITLE	HIGH RISE MULTI-RESIDENTIAL FACADES	SHEET NO.	5 of 17	CHECK		REVISION	
		DESIGN GUIDE REFERENCE		SCALE	1:20 @ A3	CONSTRUCTION DETAILS	SHEET SIZE	A3	DRAWN		DATE

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS



HEAD/BASE FOR REBATED SLAB (HEBEL 2001)

SCALE: 1:5

- KEY ASSUMPTIONS AND REQUIREMENTS:**
1. COMPATIBLE ACRYLIC COATING SYSTEM TO SUITE HEBEL SUBSTRATE.
 2. BACKING ROD SHALL BE SET WITHIN THE JOINT TO ALLOW SUFFICIENT DEPTH OF SEALANT TO BE APPLIED THE JOINT.

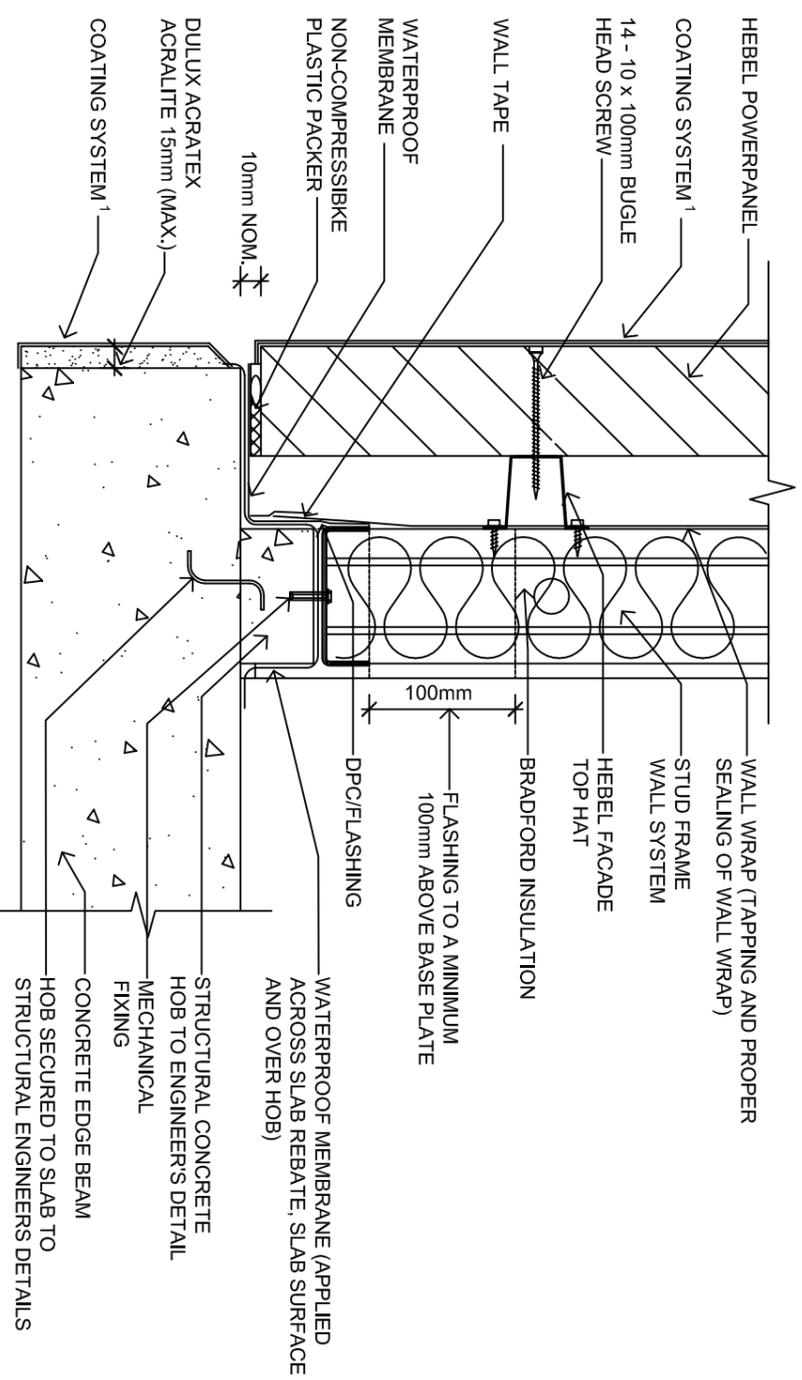
NOTE:

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		DESIGN GUIDE REFERENCE		SCALE	1:5 @ A3
				DRAWN	
				CHECK	
				REVISION	

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS



BASE WITH HOB (HEBEL 2001)

SCALE: 1:5

KEY ASSUMPTIONS AND REQUIREMENTS:

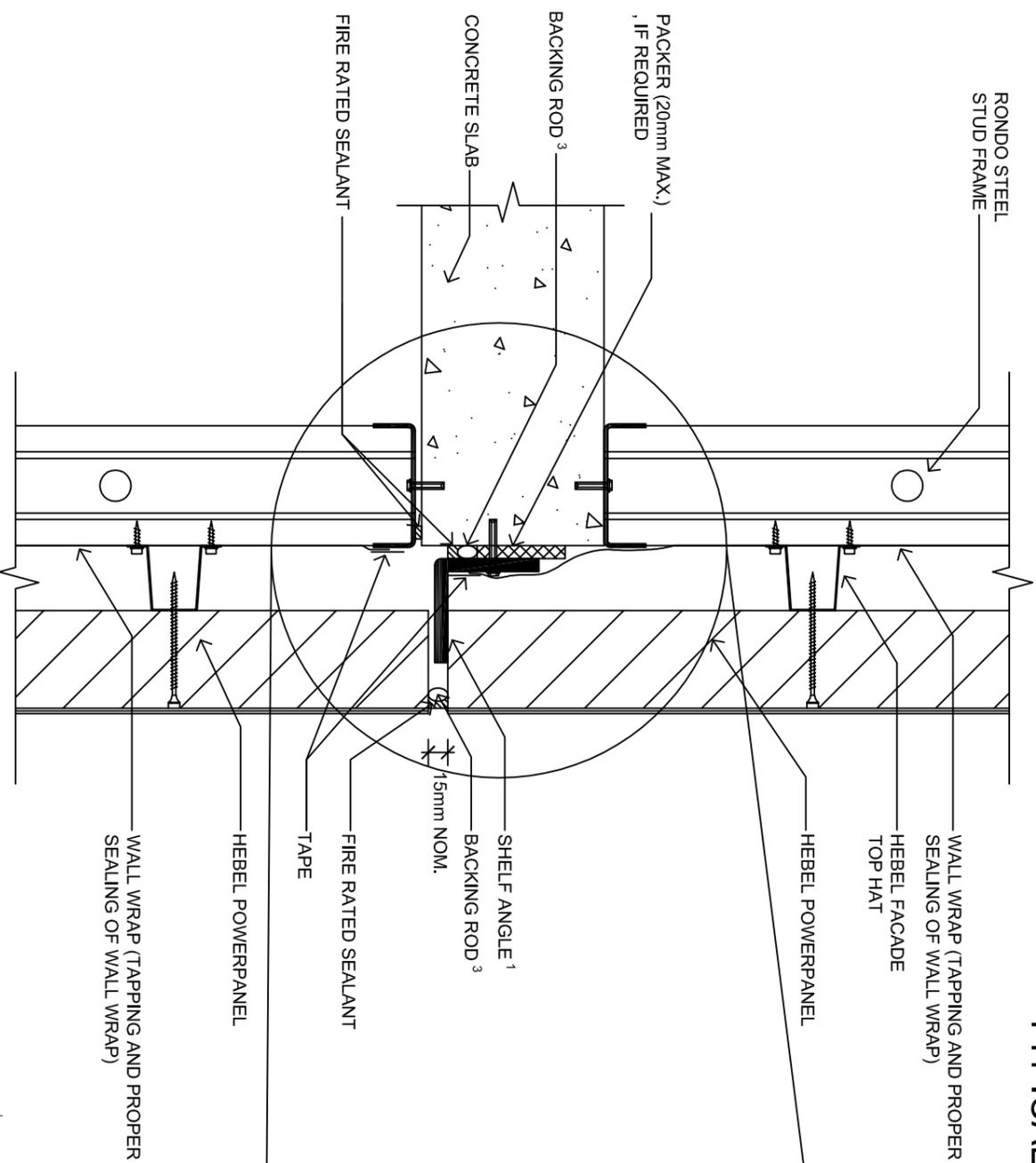
1. COMPATIBLE ACRYLIC COATING SYSTEM TO SUITE HEBEL SUBSTRATE.
2. BACKING ROD SHALL BE SET WITHIN THE JOINT TO ALLOW SUFFICIENT DEPTH OF SEALANT TO BE APPLIED THE JOINT.

NOTE:

1. THIS DRAWING IS BASED ON THE CRITERIA YOU HAVE SELECTED AND ANY ADDITIONAL ASSUMPTIONS LISTED ON IT. THE DRAWING REFLECTS 'TYPICAL' CONSTRUCTION DETAILS AND SHOULD BE READ IN ASSOCIATION WITH THE CURRENT DESIGN AND INSTALLATION GUIDE.
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 <p>CSR BUILDING PRODUCTS LTD Head Office: T14/13, 38 DELUI RD, NORTH RYDE NSW 2113 LOCKED BAG 3345, NORTH RYDE BC NSW 1570 A.B.N. 55 008 631 356 Ptn: 1300 369 848 www.hebelusafralia.com.au</p>	 <p>The better way to build CSR Building Products Limited 122 Macquarie Street, Sydney NSW 2000 Phone: (02) 8260 3380 Fax: (02) 8260 3380 A.B.N. 55 008 631 356</p>	FIGURE	3.9	TITLE	HIGH RISE MULTI-RESIDENTIAL FACADES
		DESIGN CODE REFERENCE		SCALE	1:5 @ A3
		SHEET NO.	7 of 17	DRAWN	
		CHECK		DATE	
		REVISION			

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS

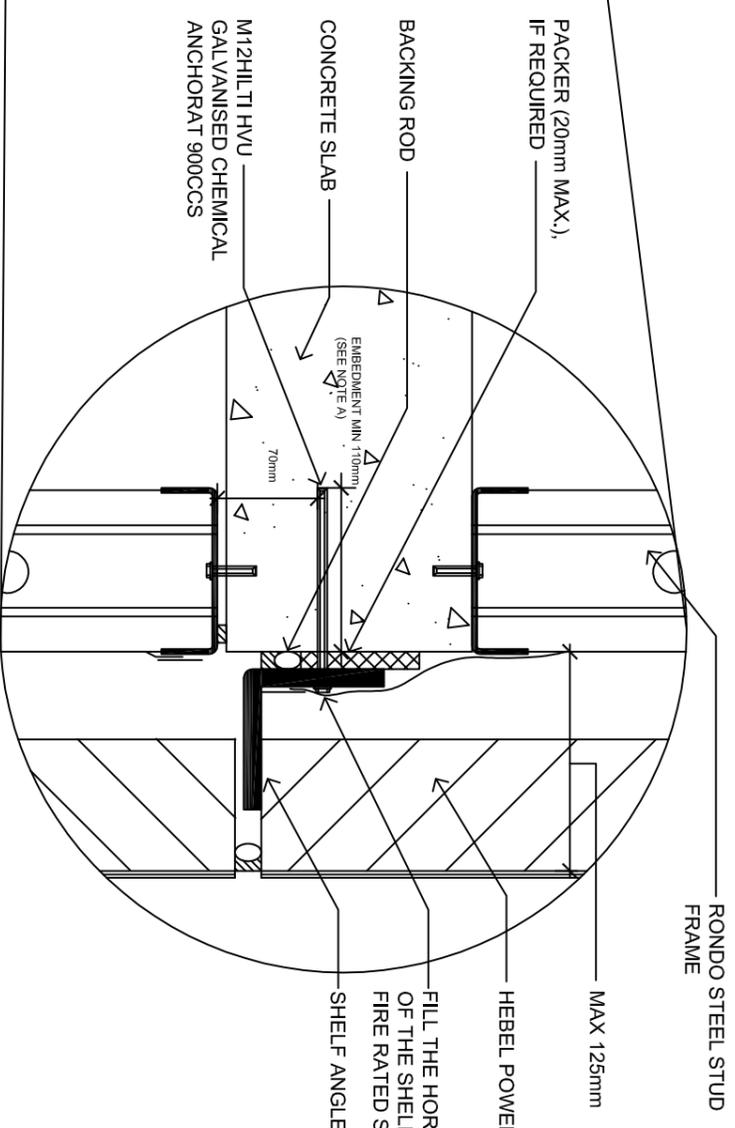


SELF ANGLE FIXING DETAIL (HEBEL 2000)

SCALE: 1:5

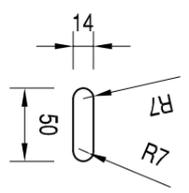
KEY ASSUMPTIONS AND REQUIREMENTS:
 1. SHELF ANGLE BUTT JOINTS MUST BE FULLY SEALED WITH FIRE RATED SEALANT TO CLOSE GAPS BETWEEN ADJOINING SHELF ANGLE LENGTHS.
 2. COMPATIBLE ACRYLIC COATING SYSTEM TO SUITE HEBEL SUBSTRATE.
 3. BACKING ROD SHALL BE SET WITHIN THE JOINT TO ALLOW SUFFICIENT DEPTH OF SEALANT TO BE APPLIED THE JOINT.
 4. WHERE EMBEDMENT OF ANCHOR SPACING IS LIMITED TO 70mm, THEN SPACING IS TO BE REDUCED TO 450CCS.

NOTE:
 1. THIS DRAWING IS BASED ON THE CRITERIA YOU HAVE SELECTED AND ANY ADDITIONAL ASSUMPTIONS LISTED ON IT. THE DRAWING REFLECTS TYPICAL CONSTRUCTION DETAILS AND SHOULD BE READ IN ASSOCIATION WITH THE CURRENT DESIGN AND INSTALLATION GUIDE.
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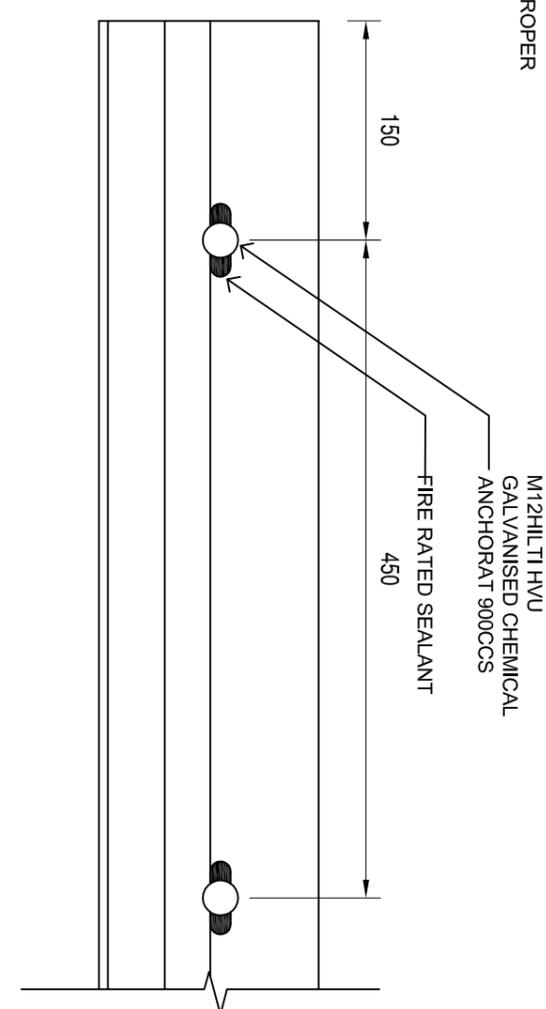
SHELF ANGLE - ELEVATION DETAIL

SCALE: 1:10



HORIZONTAL SLOT DETAIL

SCALE: 1:5

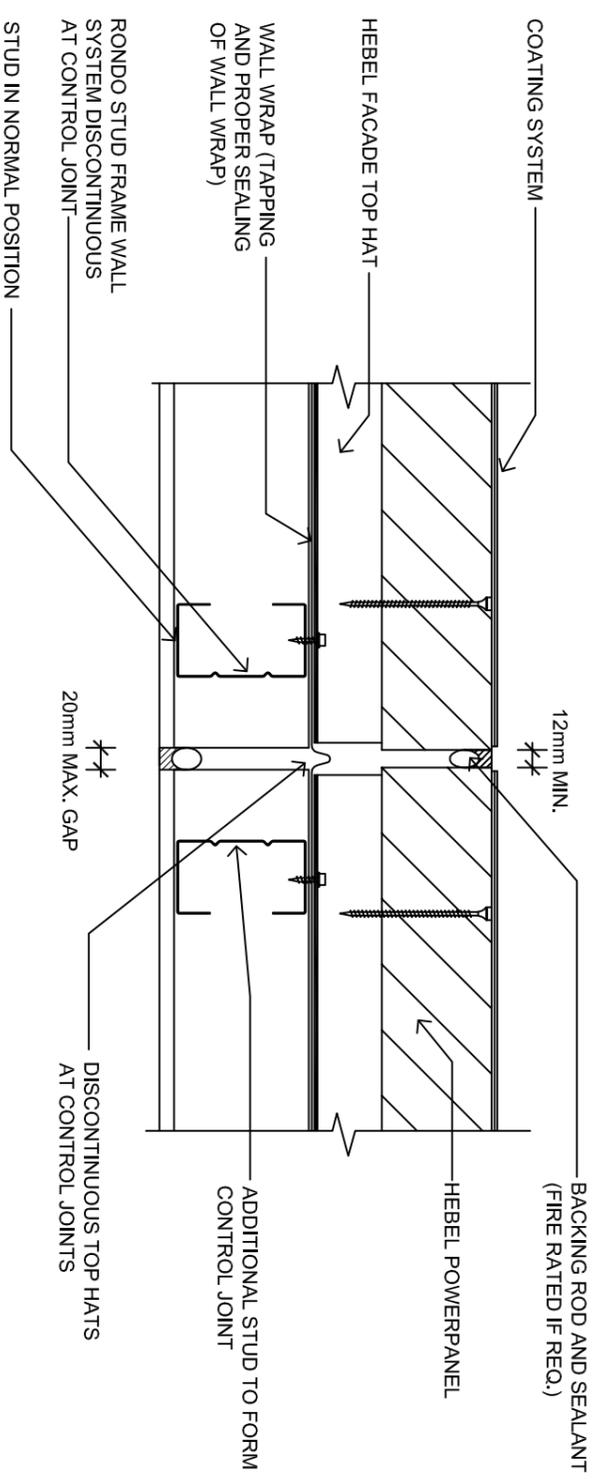


SHELF ANGLE - CROSS SECTION DETAIL

SCALE: 1:5

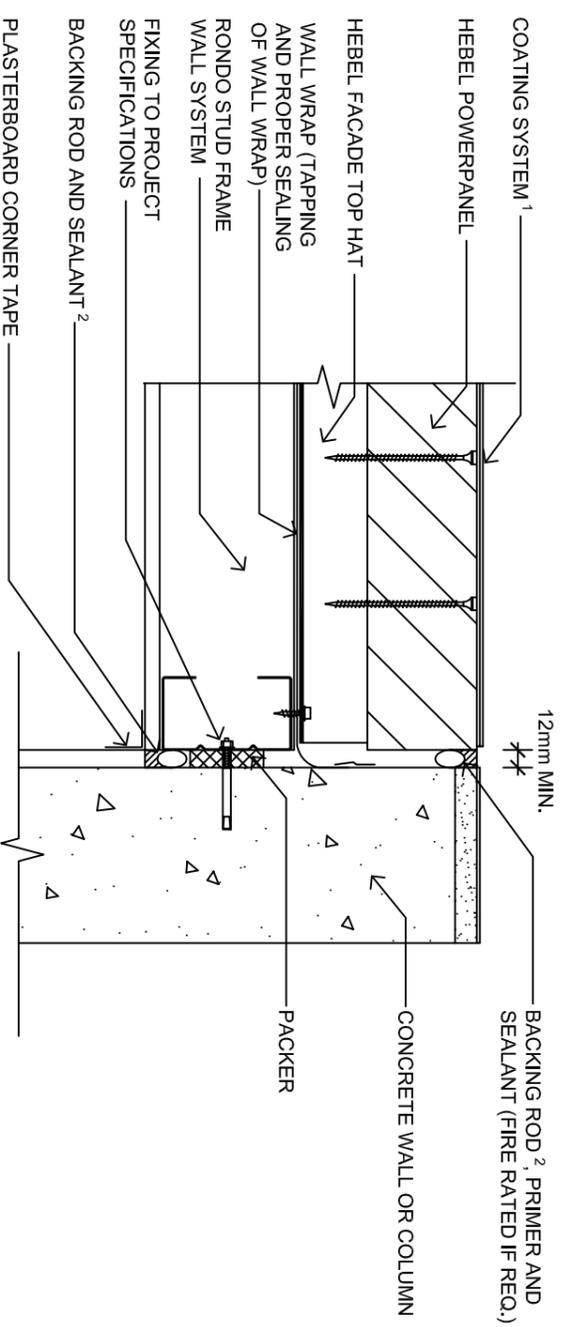
<p>CSR BUILDING PRODUCTS LTD Head Office: Tenth 3, 30 DEULLI RD, NORTH RYDE, NSW 2113 Locked Bag 3345, North Ryde, NSW 1570 A.B.N. 55 006 631 356 Ptn: 1300 369 848 www.hebelaustralia.com.au</p>	<p>The better way to build CSR Building Products Limited A.B.N. 55 006 631 356</p>	FIGURE	3.10	TITLE	HIGH RISE MULTI-RESIDENTIAL FACADES	SHEET NO.	8 of 17
		DESIGN GUIDE REFERENCE	A3	SCALE	1:5 @ A3	DATE	

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS



CONTROL JOINT

SCALE: 1:5



JUNCTION WITH CONCRETE COLUMN

SCALE: 1:5

- KEY ASSUMPTIONS AND REQUIREMENTS:**
1. COMPATIBLE ACRYLIC COATING SYSTEM TO SUITE HEBEL SUBSTRATE.
 2. BACKING ROD SHALL BE SET WITHIN THE JOINT TO ALLOW SUFFICIENT DEPTH OF SEALANT TO BE APPLIED THE JOINT.
 3. CONTROL JOINTS IN INTERNAL PLASTERBOARD LININGS TO BE INSTALLED IN ACCORDANCE WITH PLASTERBOARD MANUFACTURERS DETAIL.

NOTE:

1. THIS DRAWING IS BASED ON THE CRITERIA YOU HAVE SELECTED AND ANY ADDITIONAL ASSUMPTIONS LISTED ON IT. THE DRAWING REFLECTS 'TYPICAL' CONSTRUCTION DETAILS AND SHOULD BE READ IN ASSOCIATION WITH THE CURRENT DESIGN AND INSTALLATION GUIDE.

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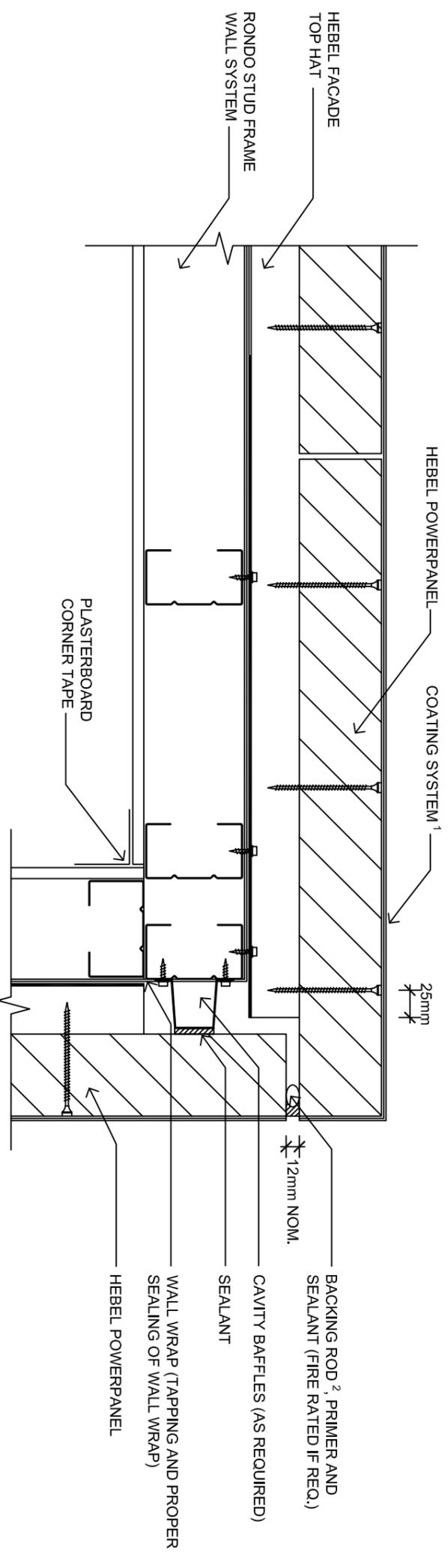
CSR BUILDING PRODUCTS LTD
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LOCKED BAG 3245, NORTH RYDE, NSW 2113
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www.hebelusa.com.au



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122 Mountview Road
Somersby, NSW 2086
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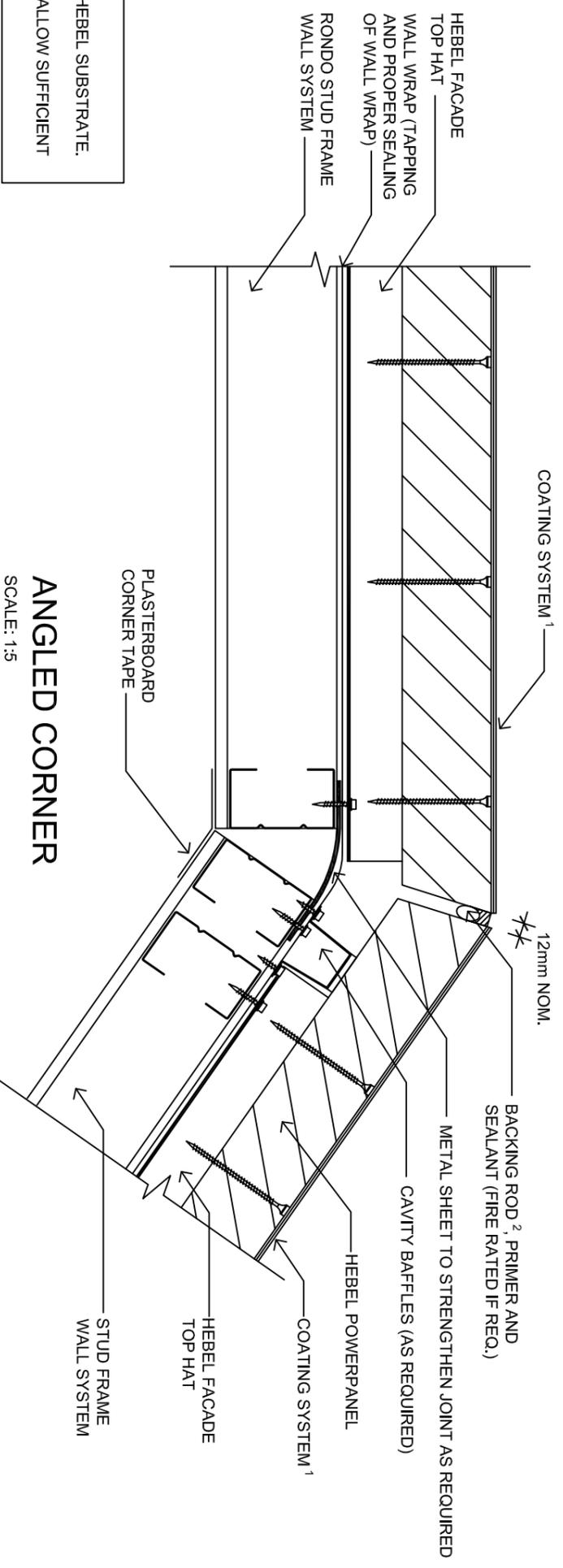
FIGURE	3.11 - 3.12	TITLE	HIGH RISE MULTI-RESIDENTIAL FACADES		
DESIGN GUIDE REFERENCE		SCALE	1:5 @ A3		
		SHEET SIZE	A3		
		SHEET NO.	9 of 17		
		CHECK			
		REVISION			

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS



EXTERNAL CORNER

SCALE: 1:5



ANGLED CORNER

SCALE: 1:5

KEY ASSUMPTIONS AND REQUIREMENTS:
1. COMPATIBLE ACRYLIC COATING SYSTEM TO SUITE HEBEL SUBSTRATE.
2. BACKING ROD SHALL BE SET WITHIN THE JOINT TO ALLOW SUFFICIENT DEPTH OF SEALANT TO BE APPLIED TO THE JOINT.

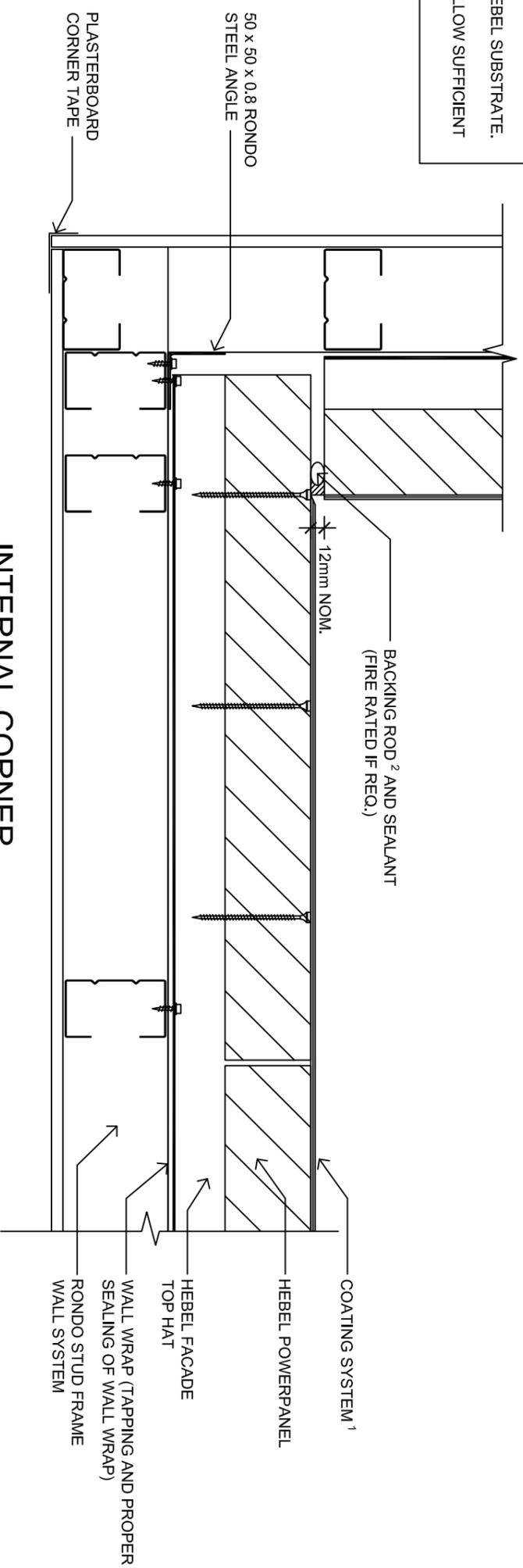
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		3.13 - 3.14	HIGH RISE MULTI-RESIDENTIAL FACADES CONSTRUCTION DETAILS			

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS

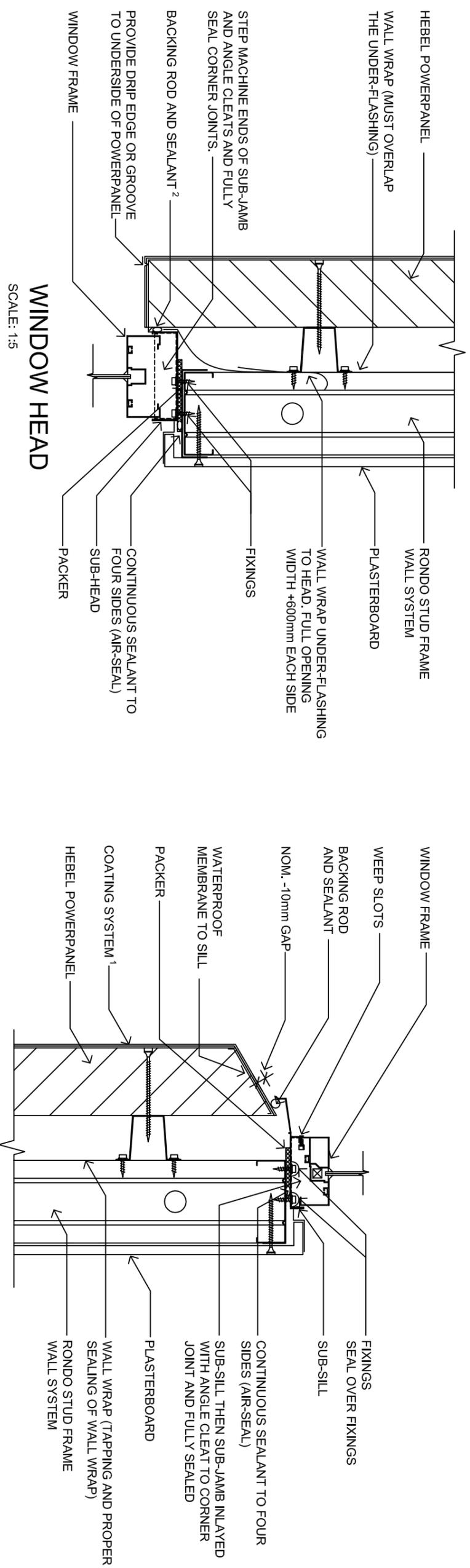
KEY ASSUMPTIONS AND REQUIREMENTS:

1. COMPATIBLE ACRYLIC COATING SYSTEM TO SUITE HEBEL SUBSTRATE.
2. BACKING ROD SHALL BE SET WITHIN THE JOINT TO ALLOW SUFFICIENT DEPTH OF SEALANT TO BE APPLIED THE JOINT.



INTERNAL CORNER

SCALE: 1:5



WINDOW HEAD

SCALE: 1:5

WINDOW SILL

SCALE: 1:5

- NOTE:**
1. THIS DRAWING IS BASED ON THE CRITERIA YOU HAVE SELECTED AND ANY ADDITIONAL ASSUMPTIONS LISTED ON IT. THE DRAWING REFLECTS TYPICAL CONSTRUCTION DETAILS AND SHOULD BE READ IN ASSOCIATION WITH THE CURRENT DESIGN AND INSTALLATION GUIDE.
 2. CSR HEBEL IS NOT IN A POSITION TO ASSESS THE FULL RANGE OF FACTORS THAT CAN INFLUENCE THE REQUIRED DESIGN OF ANY PARTICULAR PROJECT AND THE INTERPLAY BETWEEN THE DESIGN DETAILS SHOWN HERE AND OTHER ELEMENTS OF THE OVERALL PROJECT DESIGN. YOUR PROJECT ENGINEER SHOULD REVIEW THE MATERIAL REFERRED TO ABOVE AND DETERMINE THE SUITABILITY OF THIS SYSTEM FOR INCLUSION IN THE PROJECT DESIGN.



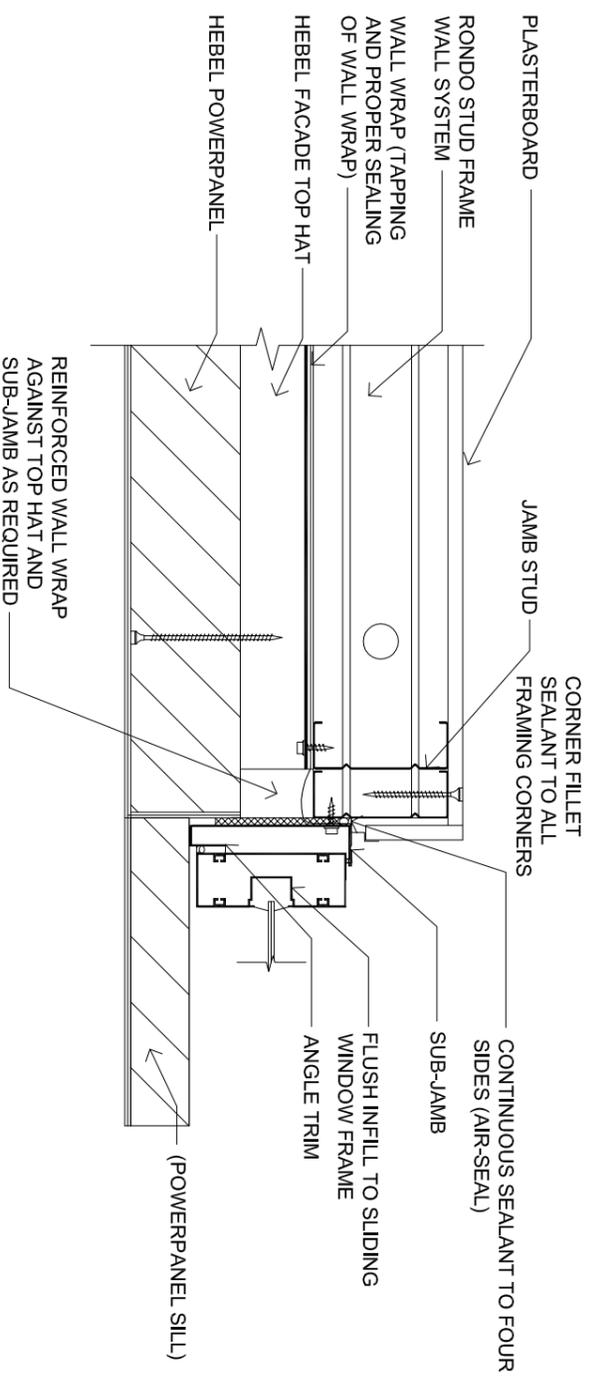
CSR BUILDING PRODUCTS LTD
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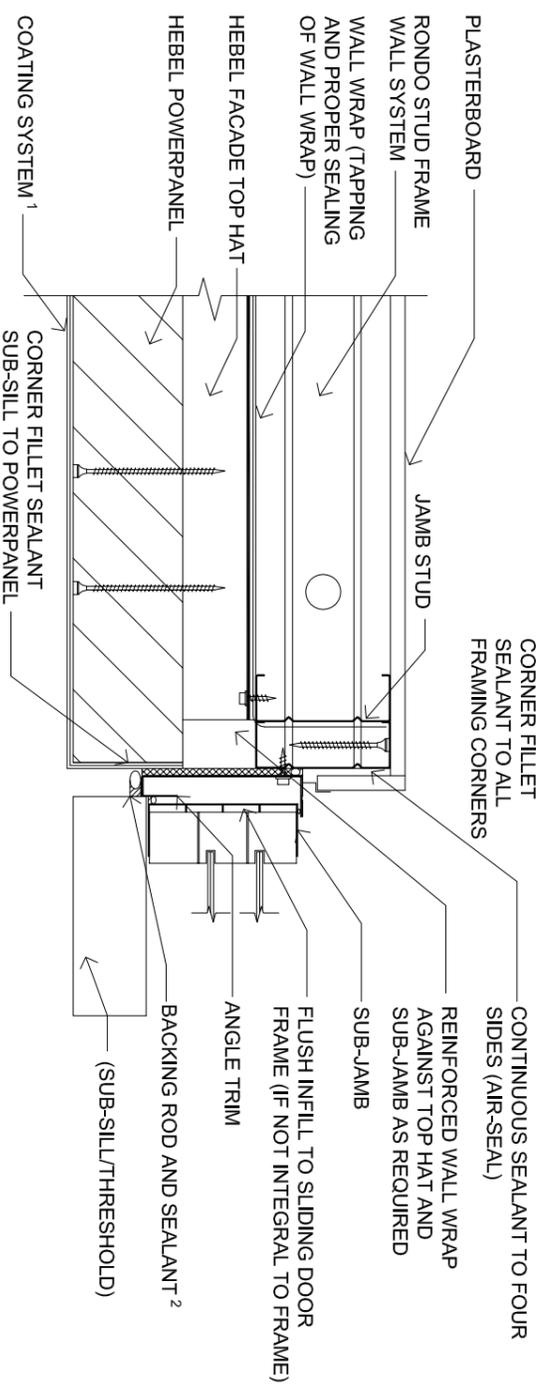
FIGURE	TITLE	SCALE	SHEET NO.	CHECK	REVISION
3.15 - 3.17	HIGH RISE MULTI-RESIDENTIAL FACADES CONSTRUCTION DETAILS	1:5 @ A3	14 of 17		

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS



WINDOW JAMB

SCALE: 1:5



SLIDING DOOR JAMB AT BASE

SCALE: 1:5

- KEY ASSUMPTIONS AND REQUIREMENTS:**
1. COMPATIBLE ACRYLIC COATING SYSTEM TO SUITE HEBEL SUBSTRATE.
 2. BACKING ROD SHALL BE SET WITHIN THE JOINT TO ALLOW SUFFICIENT DEPTH OF SEALANT TO BE APPLIED THE JOINT.
 3. THE WINDOW MANUFACTURER IS TO SUPPLY THE AIR SEAL DETAIL FOR SLIDING DOOR JAMB, SO THAT AIR CAN NOT VENT INTO WALL CAVITY. CSR HEBEL RECOMMENDS THE USE OF FULL PERIMETER SUB-FRAMES.

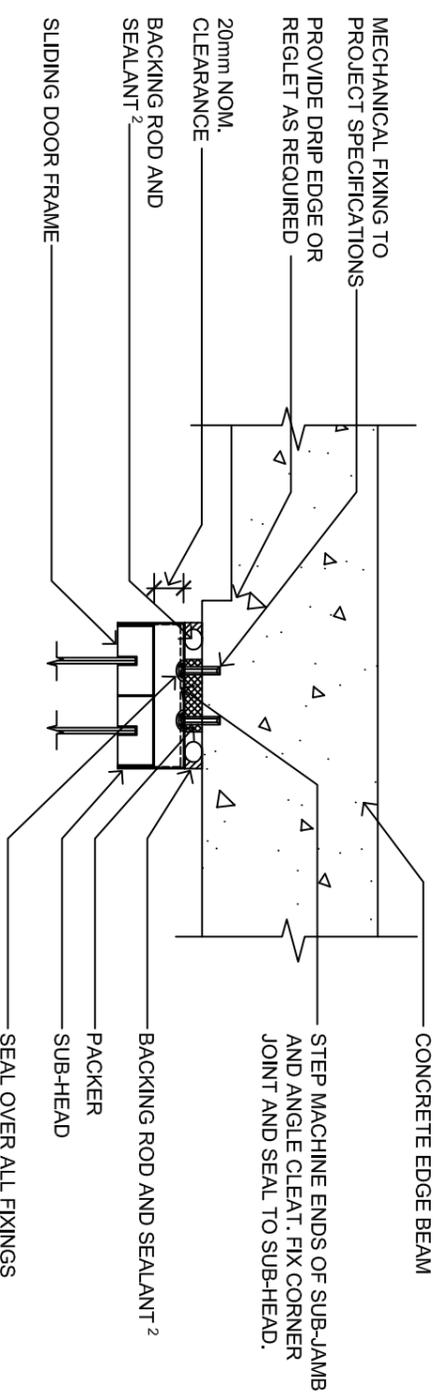
NOTE:

1. THIS DRAWING IS BASED ON THE CRITERIA YOU HAVE SELECTED AND ANY ADDITIONAL ASSUMPTIONS LISTED ON IT. THE DRAWING REFLECTS 'TYPICAL' CONSTRUCTION DETAILS AND SHOULD BE READ IN ASSOCIATION WITH THE CURRENT DESIGN AND INSTALLATION GUIDE.

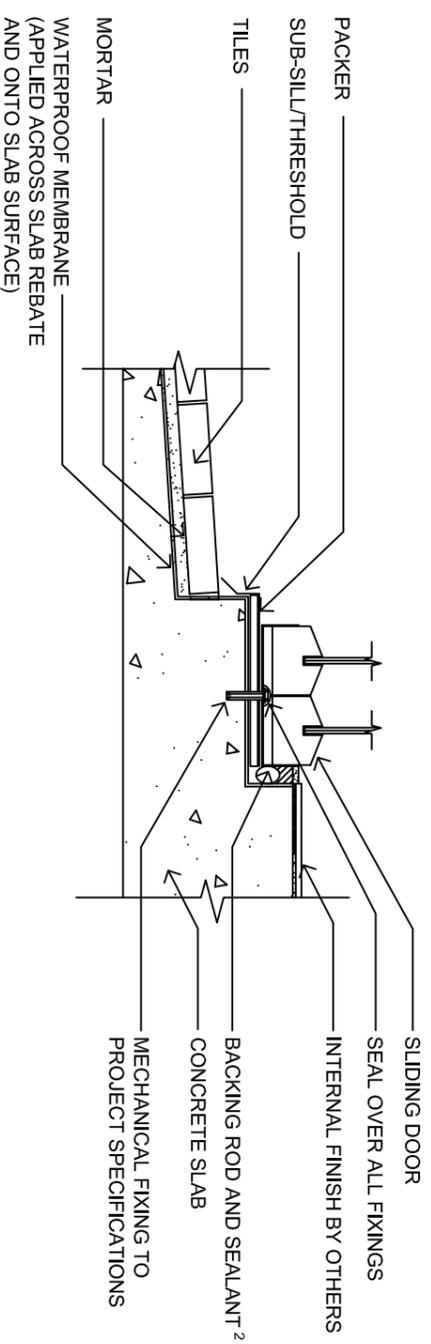
2. CSR HEBEL IS NOT IN A POSITION TO ASSESS THE FULL RANGE OF FACTORS THAT CAN INFLUENCE THE REQUIRED DESIGN OF ANY PARTICULAR PROJECT AND THE INTERPLAY BETWEEN THE DESIGN DETAILS SHOWN HERE AND OTHER ELEMENTS OF THE OVERALL PROJECT DESIGN. YOUR PROJECT ENGINEER SHOULD REVIEW THE MATERIAL REFERRED TO ABOVE AND DETERMINE THE SUITABILITY OF THIS SYSTEM FOR INCLUSION IN THE PROJECT DESIGN.

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		DESIGN GUIDE REFERENCE		SCALE	1:5 @ A3
				SHEET SIZE	A3
				DRAWN	CHECK
				DATE	REVISION

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS



SLIDING DOOR HEAD
SCALE: 1:5



SLIDING DOOR BASE - SIDE ELEVATION
SCALE: 1:5

- KEY ASSUMPTIONS AND REQUIREMENTS:**
1. COMPATIBLE ACRYLIC COATING SYSTEM TO SUITE HEBEL SUBSTRATE.
 2. BACKING ROD SHALL BE SET WITHIN THE JOINT TO ALLOW SUFFICIENT DEPTH OF SEALANT TO BE APPLIED THE JOINT.

NOTE:
1. THIS DRAWING IS BASED ON THE CRITERIA YOU HAVE SELECTED AND ANY ADDITIONAL ASSUMPTIONS LISTED ON IT. THE DRAWING REFLECTS 'TYPICAL' CONSTRUCTION DETAILS AND SHOULD BE READ IN ASSOCIATION WITH THE CURRENT DESIGN AND INSTALLATION GUIDE.

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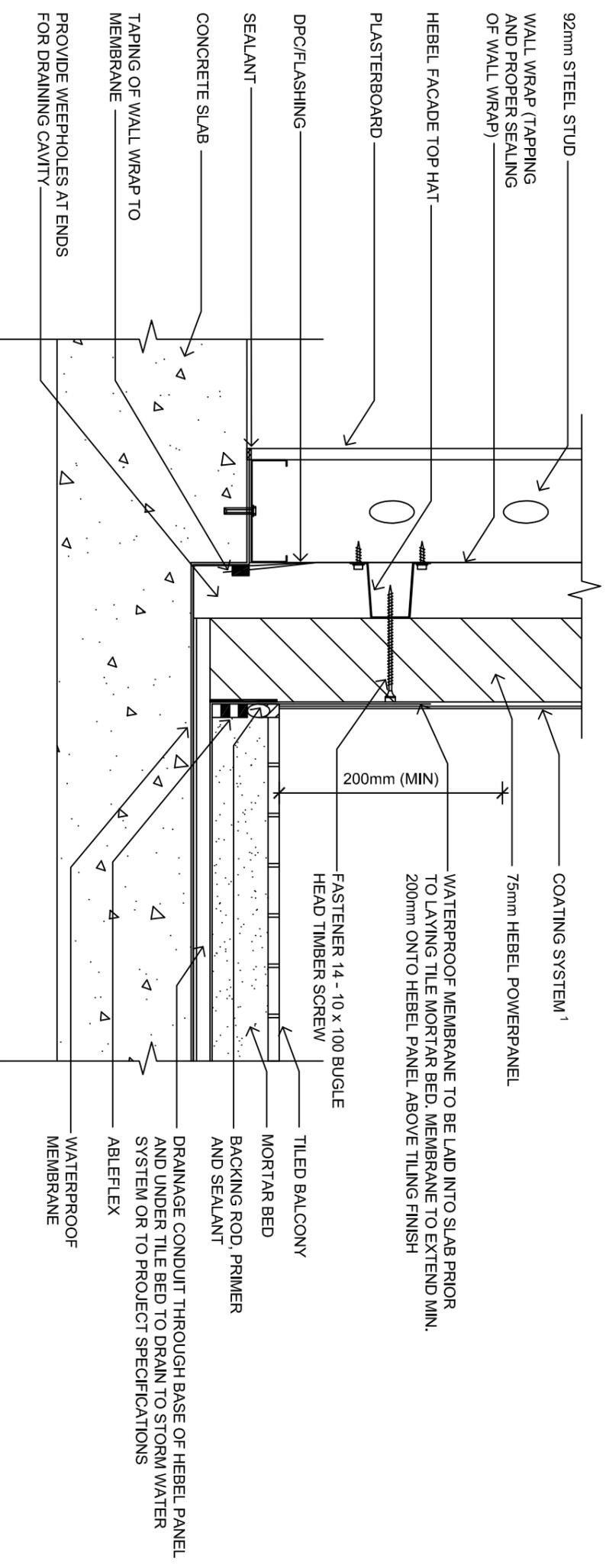
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FIGURE	TITLE	SCALE	SHEET NO.	CHECK	REVISION
3.20 - 3.21	HIGH RISE MULTI-RESIDENTIAL FACADES CONSTRUCTION DETAILS	1:5 @ A3	13 of 17		
DESIGN GUIDE REFERENCE					

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS



BALCONY DETAIL
SCALE: 1:5

KEY ASSUMPTIONS AND REQUIREMENTS:

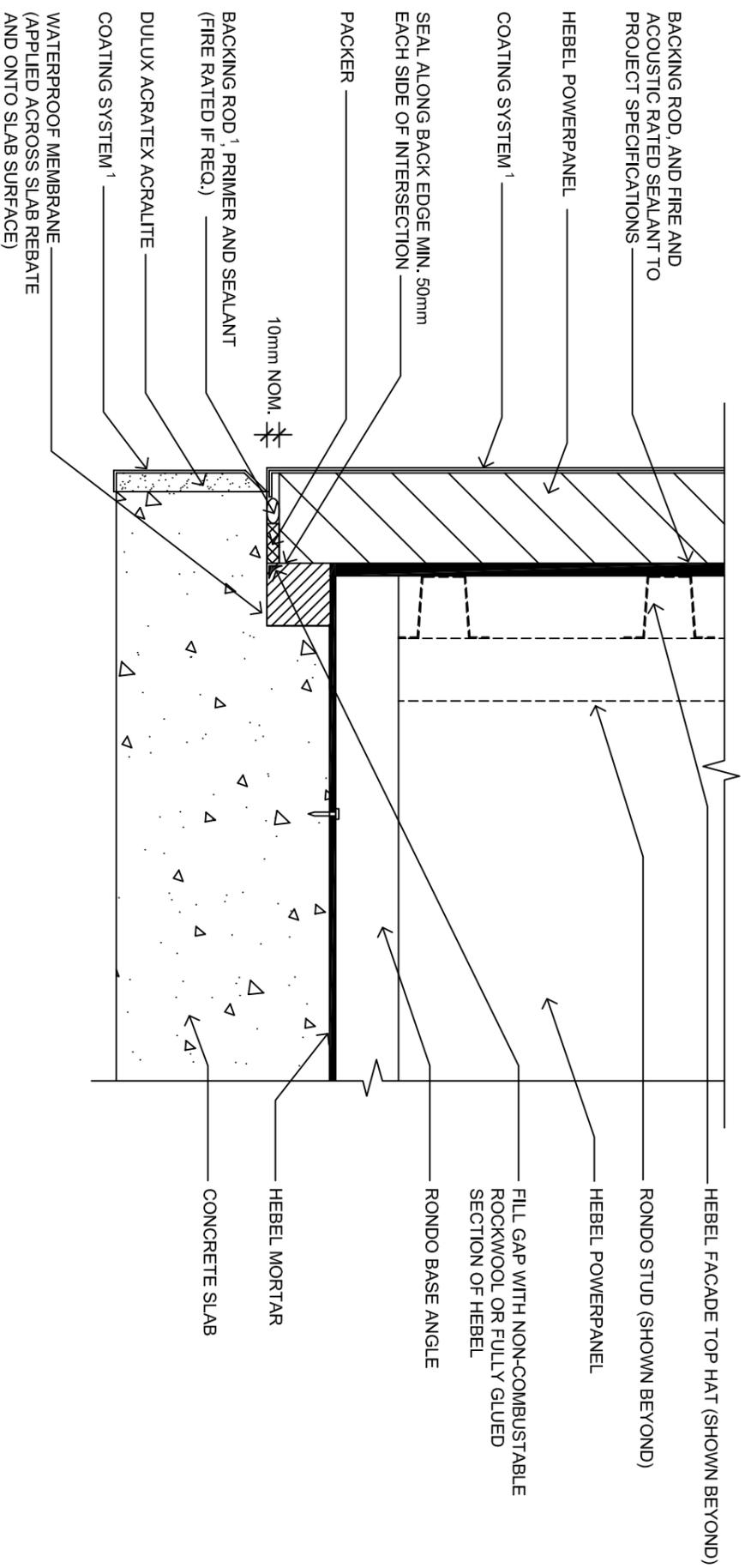
1. COMPATIBLE ACRYLIC COATING SYSTEM TO SUITE HEBEL SUBSTRATE.
2. PRESSURE EQUALISATION SLOTS ARE TO BE INSTALLED AT THE TOPS OF PANELS AT MAX. 3.0m CTRS OVER BALCONIES GREATER THAN 3m IN WIDTH.

NOTE:

1. THIS DRAWING IS BASED ON THE CRITERIA YOU HAVE SELECTED AND ANY ADDITIONAL ASSUMPTIONS LISTED ON IT. THE DRAWING REFLECTS 'TYPICAL' CONSTRUCTION DETAILS AND SHOULD BE READ IN ASSOCIATION WITH THE CURRENT DESIGN AND INSTALLATION GUIDE.
2. CSR HEBEL IS NOT IN A POSITION TO ASSESS THE FULL RANGE OF FACTORS THAT CAN INFLUENCE THE REQUIRED DESIGN OF ANY PARTICULAR PROJECT AND THE INTERPLAY BETWEEN THE DESIGN DETAILS SHOWN HERE AND OTHER ELEMENTS OF THE OVERALL PROJECT DESIGN. YOUR PROJECT ENGINEER SHOULD REVIEW THE MATERIAL REFERRED TO ABOVE AND DETERMINE THE SUITABILITY OF THIS SYSTEM FOR INCLUSION IN THE PROJECT DESIGN.

<p>CSR BUILDING PRODUCTS LTD Head Office: T1 Hill 3, 38 DEWIL RD, NORTH RYDE, NSW 2113 LOCKED BAG 3345, NORTH RYDE, NSW 1570 A.B.N. 55 006 631 356 Ptn: 1300 369 448 www.hebelaustralia.com.au</p>	<p>The better way to build</p> <p>127 Macquarie Street, Sydney Phone: (02) 9260 3380 Fax: (02) 9260 3380 A.B.N. 55 006 631 356</p>	FIGURE	3.23	TITLE	HIGH RISE MULTI-RESIDENTIAL FACADES	SHEET NO.	15 of 17	CHECK		REVISION	
		DESIGN CODE REFERENCE		SCALE	1:5 @ A3	SHEET SIZE	A3	DRAWN		DATE	

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS



INTERTENANCY FACADE JUNCTION DETAIL
SCALE: 1:5

KEY ASSUMPTIONS AND REQUIREMENTS:

1. COMPATIBLE ACRYLIC COATING SYSTEM TO SUITE HEBEL SUBSTRATE.
2. BACKING ROD SHALL BE SET WITHIN THE JOINT TO ALLOW SUFFICIENT DEPTH OF SEALANT TO BE APPLIED THE JOINT.

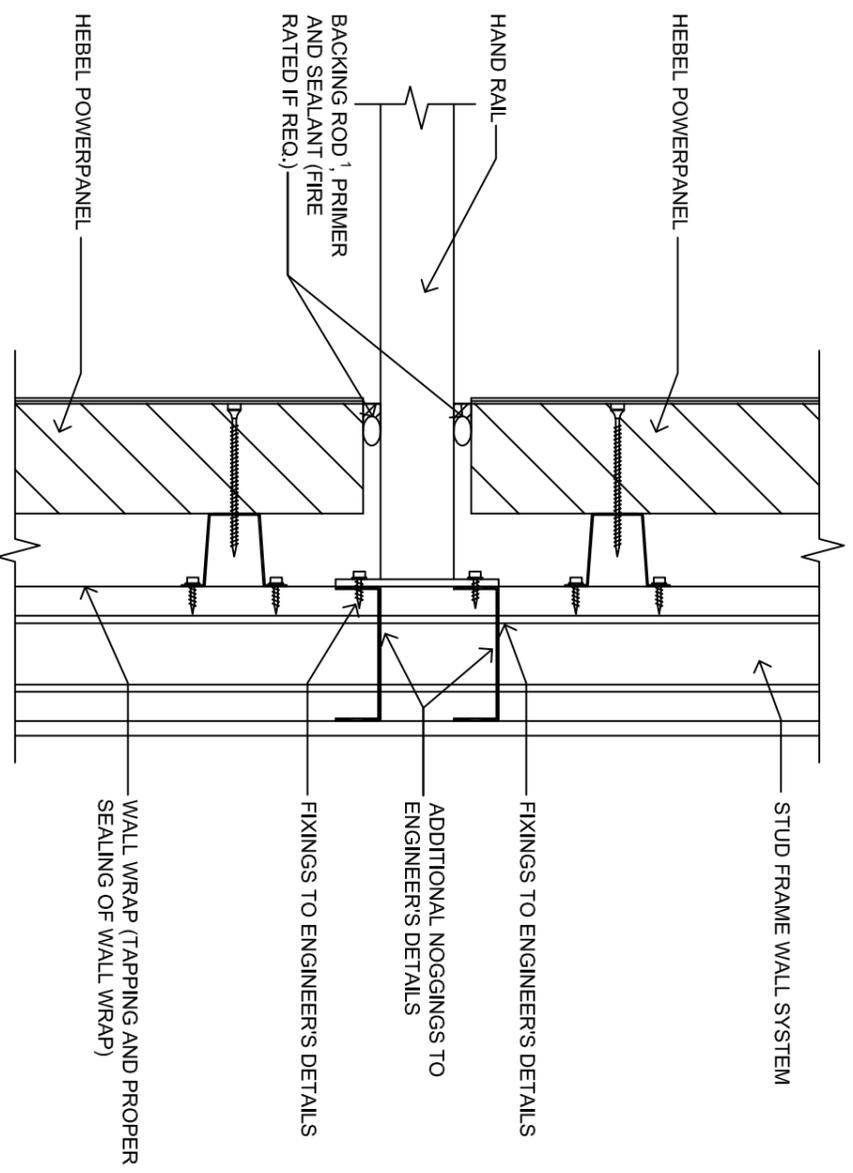
NOTE:

1. THIS DRAWING IS BASED ON THE CRITERIA YOU HAVE SELECTED AND ANY ADDITIONAL ASSUMPTIONS LISTED ON IT. THE DRAWING REFLECTS 'TYPICAL' CONSTRUCTION DETAILS AND SHOULD BE READ IN ASSOCIATION WITH THE CURRENT DESIGN AND INSTALLATION GUIDE.

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 <p>CSR BUILDING PRODUCTS LTD Head Office: Trillia 3, 38 DEATH RD, NORTH RYDE NSW 2113 LOCKED BAG 3345, NORTH RYDE BC NSW 1670 A.B.N. 55 008 631 356 Ptn: 1300 369 848 www.hebelaustralia.com.au</p>	 <p>The better way to build CSR Building Products Limited A.B.N. 55 008 631 356</p>	FIGURE	TITLE	SHEET NO.	DRAWN	DATE
		3.24	HIGH RISE MULTI-RESIDENTIAL FACADES CONSTRUCTION DETAILS			

HIGH RISE MULTI-RESIDENTIAL FACADES TYPICAL CONSTRUCTION DETAILS



HANDRAIL ATTACHMENT

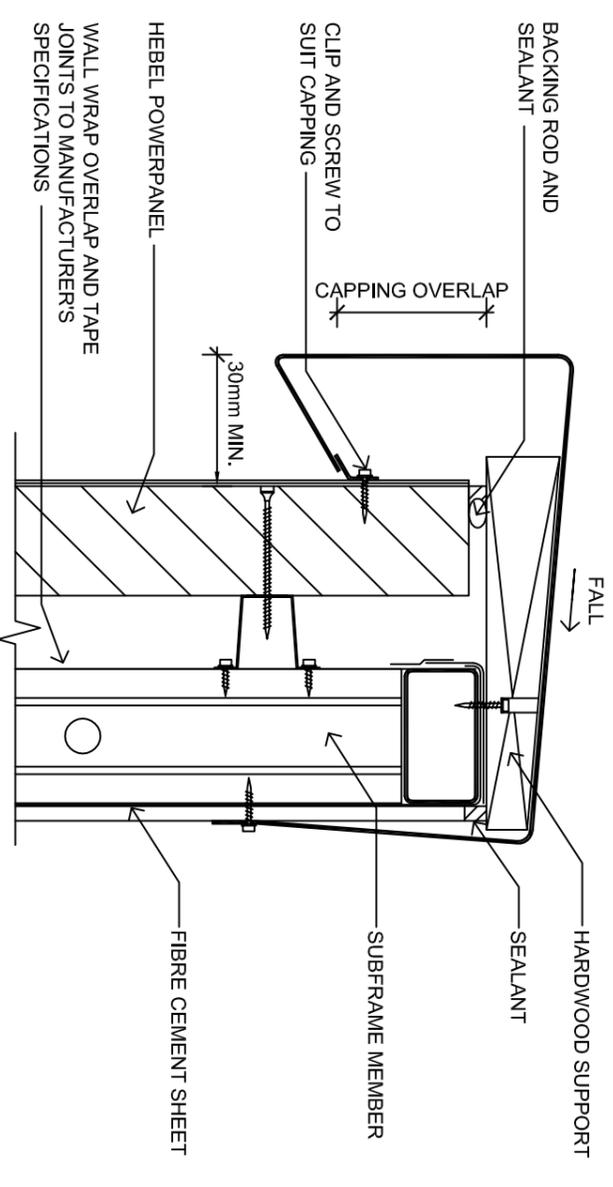
SCALE: 1:5

KEY ASSUMPTIONS AND REQUIREMENTS:

1. BACKING ROD SHALL BE SET WITHIN THE JOINT TO ALLOW SUFFICIENT DEPTH OF SEALANT TO BE APPLIED THE JOINT.
2. ALL ELEMENTS TO BE SUPPORTED BY WALL SHALL BE CONNECTED TO THE STRUCTURAL STEEL FRAMING. NO LOADS ARE TO BE CARRIED BY HEBEL POWERPANEL CLADDING.
3. PARAPET CAPPING SHALL BE DESIGNED AND FASTENED IN ACCORDANCE WITH SAA - HB39 1997 - INSTALLATION CODE FOR METAL ROOFING AND WALL CLADDING. STOP ENDS SHALL BE INCORPORATED TO ALL FLASHINGS.

NOTE:

1. THIS DRAWING IS BASED ON THE CRITERIA YOU HAVE SELECTED AND ANY ADDITIONAL ASSUMPTIONS LISTED ON IT. THE DRAWING REFLECTS 'TYPICAL' CONSTRUCTION DETAILS AND SHOULD BE READ IN ASSOCIATION WITH THE CURRENT DESIGN AND INSTALLATION GUIDE.
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PARAPET CAPPING

SCALE: 1:5

ULTIMATE DESIGN WIND PRESSURE (kPa)	CAPPING OVERLAP MINIMUM (mm)
1.5	50
3.5	100
5.0	150
7.0	200

CAPPING OVERLAP TABLE

 CSR BUILDING PRODUCTS LTD Head Office: Tenth 3, 30 DEUIL RD, NORTH RYDE, NSW 2113 LOCKED BAG 3345, NORTH RYDE, NSW 1570 A.B.N. 55 006 631 356 P.O. Box 1300, 369 448 www.hebelusa.com.au	 The better way to build CSR Building Products Limited 122 Somersby Road Somersby, NSW 2086 Phone: (02) 940 3300 Fax: (02) 940 3300 A.B.N. 55 006 631 356	FIGURE	3.25 - 3.26	TITLE	HIGH RISE MULTI-RESIDENTIAL FACADES
		DESIGN CODE REFERENCE		SCALE	1:5 @ A3
				DATE	
				REVISION	