**PORCELANOSA COLLECTION**

- For orders of 2000SF or above, please use standard sizes shown below.
- For orders of 2000SF or above, custom tile size, model, finish, etc. available - largest tile size to be 48x48".
- All tiles available with visible or invisible fixing system.
- All tiles back with safety fiberglass mesh.
- Number of fixing points show regardless of orientation of the panel (horizontal) or the layout.

<table>
<thead>
<tr>
<th>Tile Size</th>
<th>Model</th>
<th>Finish</th>
<th>Fixing Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>14x21&quot;</td>
<td>32x32&quot;</td>
<td>26&quot;x17&quot;</td>
<td>25&quot;x25&quot;</td>
</tr>
<tr>
<td>18x18&quot;</td>
<td>25&quot;x25&quot;</td>
<td>20&quot;x17&quot;</td>
<td>26&quot;x27&quot;</td>
</tr>
<tr>
<td>21x21&quot;</td>
<td>25&quot;x25&quot;</td>
<td>20&quot;x17&quot;</td>
<td>26&quot;x27&quot;</td>
</tr>
<tr>
<td>24x24&quot;</td>
<td>25&quot;x25&quot;</td>
<td>20&quot;x17&quot;</td>
<td>26&quot;x27&quot;</td>
</tr>
</tbody>
</table>

**VENIS COLLECTION**

- For orders of 2000SF or above, please use standard sizes shown below.
- For orders of 2000SF or above, custom tile size, model, finish, etc. available - largest tile size to be 48x48".
- All tiles available with visible or invisible fixing system.
- All tiles back with safety fiberglass mesh.
- Number of fixing points show regardless of orientation of the panel (horizontal) or the layout.

<table>
<thead>
<tr>
<th>Tile Size</th>
<th>Model</th>
<th>Finish</th>
<th>Fixing Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>14x21&quot;</td>
<td>32x32&quot;</td>
<td>26&quot;x17&quot;</td>
<td>25&quot;x25&quot;</td>
</tr>
<tr>
<td>18x18&quot;</td>
<td>25&quot;x25&quot;</td>
<td>20&quot;x17&quot;</td>
<td>26&quot;x27&quot;</td>
</tr>
<tr>
<td>21x21&quot;</td>
<td>25&quot;x25&quot;</td>
<td>20&quot;x17&quot;</td>
<td>26&quot;x27&quot;</td>
</tr>
<tr>
<td>24x24&quot;</td>
<td>25&quot;x25&quot;</td>
<td>20&quot;x17&quot;</td>
<td>26&quot;x27&quot;</td>
</tr>
</tbody>
</table>

**URBATEK COLLECTION**

- For orders of 2000SF or above, please use standard sizes shown below.
- For orders of 2000SF or above, custom tile size, model, finish, etc. available - largest tile size to be 48x48".
- All tiles available with visible or invisible fixing system.
- All tiles back with safety fiberglass mesh.
- Number of fixing points show regardless of orientation of the panel (horizontal) or the layout.

<table>
<thead>
<tr>
<th>Tile Size</th>
<th>Model</th>
<th>Finish</th>
<th>Fixing Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>14x21&quot;</td>
<td>32x32&quot;</td>
<td>26&quot;x17&quot;</td>
<td>25&quot;x25&quot;</td>
</tr>
<tr>
<td>18x18&quot;</td>
<td>25&quot;x25&quot;</td>
<td>20&quot;x17&quot;</td>
<td>26&quot;x27&quot;</td>
</tr>
<tr>
<td>21x21&quot;</td>
<td>25&quot;x25&quot;</td>
<td>20&quot;x17&quot;</td>
<td>26&quot;x27&quot;</td>
</tr>
<tr>
<td>24x24&quot;</td>
<td>25&quot;x25&quot;</td>
<td>20&quot;x17&quot;</td>
<td>26&quot;x27&quot;</td>
</tr>
</tbody>
</table>

**XLIGHT COLLECTION**

- Other tile sizes available as a result of trimming the standard sizes below.
- Reduced waste factor is a key factor in these cases either by optimizing the project panel size or by reusing cut pieces.
- Only available only with visible fixing system.

<table>
<thead>
<tr>
<th>Tile Size</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>18&quot;x14&quot;</td>
<td>23&quot;x18&quot;</td>
</tr>
</tbody>
</table>

*Note: All dimensions to be re-checked on-site.*

**Important Note:**

- D1 = 0,512" (13mm)
- D3 = 0,079" (2mm)
- D1 = 9,5-11,5mm depending on size of tile and finish.

*Reduced waste factor is a key factor in these cases either by optimizing the project panel size or by reusing cut pieces.*

*Other tile sizes available as a result of trimming the standard sizes below.*

**DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE RELEVANT ENGINEER.**

Drawing reviewed by: ......................

**ALL DIMENSIONS TO BE RE-CHECKED ON-SITE.**

COPYRIGHT AND DISTRIBUTION TO THIRD PARTIES PROHIBITED.
UNDER NO CIRCUMSTANCES SHOULD DIMENSIONS BE SCALED FROM THIS DRAWINGS. "IF IN DOUBT ASK".
COPYRIGHT AND DISTRIBUTION TO THIRD PARTIES PROHIBITED.
ALL DIMENSIONS TO BE RE-CHECKED ON-SITE.
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE RELEVANT ENGINEER.

drawing reviewed by: ......................

shop drawings review
status

date reviewed

job title

drawn

checked

drawing title

scale

BANK OF DETAILS

reference

architect

002
THESE SHOP DRAWINGS REPRESENT OUR INTERPRETATION OF THE PLANS AND SPECIFICATIONS, AND OUR CONTRACT REQUIREMENTS FOR THIS PROJECT.

PRIOR TO MANUFACTURE OF ANY PRODUCT FOR THIS JOB, ALL DIMENSIONS, METHODS OF CONSTRUCTION, AND EXISTING CONDITIONS MUST BE CHECKED AND CORRECTED OR APPROVED BY OUR CUSTOMER.

NO PRODUCT WILL BE SCHEDULED FOR FABRICATION UNTIL WE HAVE BEEN NOTIFIED IN WRITING BY OUR CUSTOMER THAT OUR DRAWINGS HAVE BEEN APPROVED FOR FABRICATION. APPROVAL DELAYS WILL RESULT IN FABRICATION DELAY.

WE ASSUME NO RESPONSIBILITY AS TO MEASUREMENT OR DETAILS AFFECTING ANY WORK BUT OUR OWN.

ALL DIMENSIONS TO BE RE-CHECKED AND VERIFIED IN FIELD/ON-SITE PRIOR TO INSTALLATION.

ITEMS INCLUDING, BUT NOT LIMITED TO, INSULATION, FLASHING, WATERPROOFING, DAMP-PROOFING, SEALANT, WEEPS, ETC. ARE BEYOND THE SCOPE OF PORCELANOSA AND MAY NOT BE SHOWN ON THESE DETAILS. REFER TO THE CONTRACT DOCUMENTS FOR SUCH ITEMS.

THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE RELEVANT ENGINEER.

TYPICAL DETAILS

CORNER SOLUTIONS

SECTION

FRONT ELEVATION

SIDE ELEVATION

MAX. PORCELAIN PANEL 36" WIDE

MAX. PORCELAIN PANEL 36" WIDE

SEC

2,5" O.C.

1,25" O.C.

SOLID WALL

TYPE 2 CORNER SOLUTION

*RECOMMENDED METHOD FOR HIGH RISE BUILDINGS & FOR SEISMIC ZONES

*CORNER SOLUTION CAN VARY FROM ORIGINAL SOLUTION FOR EACH PROJECT. PLEASE REFER TO PROJECT SUBSTRUCTURE DRAWINGS. IF NOT NOTED, FOLLOW THIS.
- There is a tiny bit of play between the tile and the fixing plate that allows thermal expansion of the components.

**Kerf Saw Cut**

- There is always 2.123mm gap between profiles so to allow for thermal expansion.

**Omega Spacing**

- Plastic pads may be provided for thermal break.

**Thermal Isolator (Thermal Bridge Break)**

- Plastic pads may be provided for thermal break. They are located in between omega profiles and L-brackets.

**Vertical Profile Spacing**

- There is always 2.123mm gap between profiles so to allow for thermal expansion.

**Vertical Profile Fixing Method**

- There is a tiny bit of play between the tile and the fixing plate that allows thermal expansion of the components.

**Vertical Profiles to be**

- Supported with dynamic (slotted) holes fixing points except for the upper fixing point.
STEP 1: OMEGAS PROFILES
* FOR SOLID WALLS STEP ONE IS NOT NECESSARY

STEP 2: L-BRACKETS + PLASTIC PAD ISOLATORS
X= DEPENDS ON TILE FORMAT

STEP 3: VERTICAL PROFILES
X= DEPENDS ON TILE FORMAT

STEP 4: FIRST ROW OF FIXING PLATES & P-404

STEP 5: FIRST ROW OF TILES & SECOND ROW OF FIXING PLATES

STEP 6: REST OF ROWS

SINGLE L-BRACKET

DOUBLE L-BRACKET

X= DEPENDS ON TILE FORMAT

P-404

* FOR SOLID WALLS STEP ONE IS NOT NECESSARY
1. EXTERIOR STUD WALL: DRY WALL, METAL/WOOD; SHEATHING; BY OTHERS.
2. EXTERIOR SOLID WALL: CMU/BRICK, MASONRY/REINFORCED CONCRETE; BY OTHERS.
3. DAMP-PROOF COARSE (DPC); BY OTHERS.
4. WINDOW SYSTEM; BY OTHERS.
5. FOR CMU WALLS: HIT-MM PLUS (CHEMICAL Anchor), HIT SC M16X85 (SLEEVE) & HIT-V M10X95 (THREADED ROD).
6. FOR REINFORCED CONCRETE: HIT-MM PLUS (CHEMICAL Anchor), HIT SC M16X85 (SLEEVE) & HIT-V M10X95 (THREADED ROD).
7. FOR BRICK MASONRY: HRD-H-10x80 (ANCHORAGE BOLT), HSA-M10 STAINLESS/GALVANISED STEEL SCREW.
8. FOR METAL STUD: S-MD55S 5.5x50 STAINLESS/GALVANISED STEEL SCREW, PLUG + HRD-H-10x80 (ANCHORAGE BOLT) & HRD-H-10x80 (ANCHORAGE BOLT) & HRD-H-10x80 (ANCHORAGE BOLT).
9. FOR WOOD STUD: 6x50-DIN 571 STAINLESS STEEL SCREW.
10. ALUMINUM OMEGA PROFILE 20x140MM (PLASTIC PAD).
11. SINGLE/DOUBLE THERMAL ISOLATORS (ITEMS 12&13).
12. SINGLE ALUMINUM L-BRACKET; 3M (118 TYP. JOINT).
13. DOUBLE ALUMINUM L-BRACKET; 3M (118 TYP. JOINT).
14. THERMAL INSULATION SPECIFICALLY ENGINEERED INVISIBLE/VISIBLE START/END FIXING PLATE.
15. FOR L-BRACKET/PROFILE: STAINLESS STEEL SHIELD FOR WIND DRIVEN RAIN AND ICE DAMS.
16. POWDER COATED (BLACK) ALUMINUM T-PROFILE, POLYISOCYANURATE FOAM CORE FACED WITH A GLASS-FIBER-REINFORCED CAVITYROCK DD (STONE WOOL), IS A DUAL SELF DRILLING SCREW.
17. ALUMINUM FLASHING; BY OTHERS.
18. FOR FIXING CLIP/PROFILE: STAINLESS STEEL SELF DRILLING SCREW.
19. INVISIBLE/VISIBLE CENTRAL STAINLESS STEEL TYP. JOINT.
20. INVISIBLE/VISIBLE STAGGERED STAINLESS STEEL TYP. JOINT.
21. INVISIBLE/VISIBLE START/END FIXING PLATE.
22. ALUMINUM FLASHING; BY OTHERS.
23. BLACK POLYURETHENE STRUCTURAL FOAM.
24. PORCELAIN TILE; PORCELANOSA, VENIS OR (ITEMS 12&13).
25. ALUMINUM FLASHING; BY OTHERS.

**DETAIL A - TYPICAL HORIZONTAL DETAIL WITH STUD WALL**

+ TYPICAL BUILDUP 1 1/2"THICK
+ VENTILATION AIR GAP TO BE 1/2"THICK MINIMUM

**DETAIL B - TYPICAL VERTICAL DETAIL WITH STUD WALL**

IF THICKER INSULATION IS REQUIRED THE BUILDUP MAY BE INCREASED BY CHANGING THE SIZE OF THE SPACER L-BRACKET (ITEMS 12&13).

THE CLADDING SYSTEM HAS A TOLERANCE OF +/- 1/16"THICK.

MAXIMUM THICKNESS OF INSULATION WITHIN TYPICAL BUILDUP 1 1/2"THICK

IF THICKER INSULATION IS REQUIRED THE BUILDUP MAY BE INCREASED BY CHANGING THE SIZE OF THE SPACER L-BRACKET (ITEMS 12&13).

VENTILATION AIR GAP TO BE 1/2"THICK MINIMUM.
DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE RELEVANT ENGINEER.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, ANY DIMENSIONS TO BE RE-CHECKED ON-SITE.

COPYRIGHT AND DISTRIBUTION TO THIRD PARTIES PROHIBITED.

DETAIL A - TYPICAL HORIZONTAL DETAIL WITH CMU WALL

*APPLICABLE TO ALL SOLID WALLS
*TYPICAL BUILDUP 22/30MM
*VENTILATION AIR GAP TO BE 3/130MM MINIMUM

IF THICKER INSULATION IS REQUIRED THE BUILDUP MAY BE INCREASED BY CHANGING THE SIZE OF THE SPACER L-BRACKET (ITEMS 12&13)

MAXIMUM THICKNESS OF INSULATION WITHIN TYPICAL BUILDUP 22/30MM

VENTILATION AIR GAP TO BE 3/130MM MINIMUM

DETAIL B - TYPICAL VERTICAL DETAIL WITH CMU WALL

THE CLADDING SYSTEM HAS A TOLERANCE OF +/- 2/30MM

IF THICKER INSULATION IS REQUIRED THE BUILDUP MAY BE INCREASED BY CHANGING THE SIZE OF THE SPACER L-BRACKET (ITEMS 12&13)

MAXIMUM THICKNESS OF INSULATION WITHIN TYPICAL BUILDUP 22/30MM

VENTILATION AIR GAP TO BE 3/130MM MINIMUM
**Typical Window Jamb Detail with Tile Return**

- **Double Aluminum L-Bracket:**
  - Fixed with central fixing plate

- **Typical Buildup:**
  - 1. Exterior Stud Wall: Drywall, Metal/Wood Studs, Sheathing; by others
  - 2. Exterior Solid Wall: CMU/Brick
  - 3. Damp-Proof Course (DPC); by others
  - 4. Window System; by others
  - 5. For CMU Wall: Chemical Anchor, Hit MM Plus (Chemical Anchor), Hit SC M16X85 (Sleeve) & Hit-V M10X95 (Threaded Rod)
  - 6. For Reinforced Concrete: Stainless/Galvanized Steel Screw
  - 7. For Brick Masonry: HRD-H-10x80 (Anchor Bolt)
  - 8. For Metal Stud: S-MD55S 5.5x50 Stainless Steel Self-Drilling Screw
  - 9. For Wood Stud: 6x50-DIN 571 Stainless Steel Self-Drilling Screw
  - 10. Aluminum Omega Profile 20x140MM
  - 11. Single/Double Thermal Isolators
  - 12. Single Aluminum L-Bracket; fixed with central fixing plate
  - 13. Powder Coated (Black) Aluminum L-Profile, TYP. LENGHT 60MM (2 x 3"
  - 14. Thermal Insulation Specifically Engineered
  - 15. Silicon-P-404 Also Available for 8MM (5"
  - 16. Powder Coated (Black) Aluminum T-Profile, TYP. LENGHT 60MM (2 x 3"
  - 17. Powder Coated (Black) Aluminum L-Profile, TYP. JOINT (3"
  - 18. For Fixing Clip/Profile: Stainless Steel Self-Drilling Screw
  - 19. Fixed with Central Fixing Plate
  - 20. Invisible/VISIBLE Lateral Stainless Steel
  - 21. Invisible/VISIBLE Start/End Fixing Plate
  - 22. Invisible/VISIBLE Start/End Fixing Plate
  - 23. Black Polyethylene Structural Suction Cup
  - 24. Porcelain Tile Porcelanosa, Vamos on Aluminum Composite
  - 25. Typical Buildup of Studio

**Window Return Fixing Criteria**

- **Minimum Return with Tile = 4'(1200MM):**
  - One Kerf Saw Cut
  - Fixed with Lateral Fixing Plate

- **From 4'(1200MM) to 3'(1000MM):**
  - Two Kerf Saw Cuts
  - Fixed with Central Fixing Plate

- **For Return Bigger than 3'(1000MM):**
  - Two Kerf Saw Cuts
  - Fixed with Two Lateral Fixing Plates
PORCELANOSA STRONGLY RECOMMENDS TO USE A FULL SERVICE WATERPROOFING MEMBRANE IN THIS CIRCUMSTANCE GIVEN THAT WATER INGRESS IS LIKELY TO OCCUR DUE TO NOT HAVING A DROPPED IN THE TILE.
1. EXTERIOR STUD WALL: DRY WALL, METAL/WOOD STUDS, SHEATING; BY OTHERS
2. EXTERIOR SOLID WALL: CMU/BRICK MASONRY/REINFORCED CONCRETE; BY OTHERS
3. DAMP-PROOF COARSE (DPC); BY OTHERS; RECOMMENDED OPTIONS: (1) TREMCO EZO AIR 230 FOR AIR/WATER BARRIER (ROLL/LIQUID APPLIED), (2) HENRY BLUESKIN SA FOR AIR/VAPOR/WATER BARRIER (PEEL&STICK), (3) GRACE ICE AND WATER SHIELD FOR WIND DRIVEN RAIN AND ICE DAMS (PEEL&STICK).
4. WINDOW SYSTEM; BY OTHERS
5. FOR CMU WALL: HIT-MM PLUS (CHEMICAL ANCHOR), HIT SC M16X85 (SLEEVE) & HIT-V M10x95 (THREADED ROD) STAINLESS/GALVANISED STEEL SCREW
6. FOR REINFORCED CONCRETE: HSA-M10 STAINLESS/GALVANISED STEEL SCREW
7. FOR BRICK MASONRY: HRD-H-10x80 (ANCHORAGE PLUG) & HRD-H-10x80 (ANCHORAGE BOLT) STAINLESS/GALVANISED STEEL SCREW
8. FOR METAL STUD: S-MD55S 5.5x50 STAINLESS STEEL SELF DRILLING SCREW
9. FOR WOOD STUD: 6x50-DIN 571 STAINLESS STEEL SELF DRILLING SCREW
10. ALUMINUM OMEGA PROFILE 20x140MM (13 16" x 5 12") 3M (118 1 8") LONG
11. SINGLE/DOUBLE THERMAL ISOLATORS (PLASTIC PAD)
12. SINGLE ALUMINUM L-BRACKET; TYP. LENGHT 60MM (2 3 8")
13. DOUBLE ALUMINUM L-BRACKET; TYP. LENGHT 60MM (2 3 8")
14. THERMAL INSULATION SPECIFICALLY ENGINEERED FOR CAVITY WALL APPLICATIONS; BY OTHERS; RECOMMENDED OPTIONS: (1) ROXUL CAVITYROCK DD (STONE WOOL), IS A DUAL DENSITY INSULATION BOARD WITH A HIGH-DENSITY OUTER LAYER, (2) THERMAX, IS A GLASS-FIBER-REINFORCED POLYISOCYANURATE FOAM CORE FACED WITH THERMOSER-COATED ALUMINUM ON ONE SIDE AND ALUMINUM ON THE OTHER.
15. FOR L-BRACKET/PROFILE: LT SELF DRILLING SCREW
16. POWDER COATED (BLACK) ALUMINUM T-PROFILE, 100x60x2.7MM (3 15 16" x 2 3 8" x 1 8"), 3M (118 1 8") LONG
17. POWDER COATED (BLACK) ALUMINUM L-PROFILE, 40x60x2.7MM (1 9 16" x 2 3 8" x 1 8"), 3M (118 1 8") LONG
18. FOR FIXING CLIP/PROFILE: STAINLESS STEEL SELF DRILLING SCREW
19. INVISIBLE/VISIBLE CENTRAL STAINLESS STEEL FIXING PLATE; TYP. 5MM (3 16") JOINT, ALSO AVAILABLE FOR 8MM (5 16")
20. INVISIBLE/VISIBLE LATERAL STAINLESS STEEL FIXING PLATE; TYP. 5MM (3 16") JOINT, ALSO AVAILABLE FOR 8MM (5 16")
21. INVISIBLE/VISIBLE START/END FIXING PLATE
22. INVISIBLE/VISIBLE STAGGERED STAINLESS STEEL FIXING PLATE; TYP. 5MM (3 16") JOINT, ALSO AVAILABLE FOR 8MM (5 16")
23. BLACK POLYURETHANE STRUCTURAL SILICON-P-404
24. PORCELAIN TILE; PORCELANOSA, VENIS OR URBATEK COLLECTION.
25. ALUMINUM FLASHING; BY OTHERS

DETAIL A - TYPICAL WINDOW JAMB DETAIL WITH ALUMINUM FLASHING RETURN
1. EXTERIOR STUD WALL: DRY WALL, METAL/WOOD STUDS, SHEATING; BY OTHERS

2. EXTERIOR SOLID WALL: CMU/BRICK MASONRY/REINFORCED CONCRETE; BY OTHERS

3. DAMP-PROOF COARSE (DPC); BY OTHERS; RECOMMENDED OPTIONS: (1) TREMCO EZO AIR 230 FOR AIR/WATER BARRIER (ROLL/LIQUID APPLIED), (2) HENRY BLUESKIN SA FOR AIR/VAPOR/WATER BARRIER (PEEL&STICK), (3) GRACE ICE AND WATER SHIELD FOR WIND DRIVEN RAIN AND ICE DAMS (PEEL&STICK).

4. WINDOW SYSTEM; BY OTHERS

5. FOR CMU WALL: HIT-MM PLUS (CHEMICAL ANCHOR), HIT SC M16X85 (SLEEVE) & HIT-V M10x95 (THREADED ROD) STAINLESS/GALVANISED STEEL SCREW

6. FOR REINFORCED CONCRETE: HSA-M10 STAINLESS/GALVANISED STEEL SCREW

7. FOR BRICK MASONRY: HRD-H-10x80 (ANCHORAGE PLUG) & HRD-H-10x80 (ANCHORAGE BOLT) STAINLESS/GALVANISED STEEL SCREW

8. FOR METAL STUD: S-MD55S 5.5x50 STAINLESS STEEL SELF DRILLING SCREW

9. FOR WOOD STUD: 6x50-DIN 571 STAINLESS STEEL SELF DRILLING SCREW

10. ALUMINUM OMEGA PROFILE 20x140MM (3"x5 1/8") 3M (118 1/8") LONG

11. SINGLE/DOUBLE THERMAL ISOLATORS (PLASTIC PAD)

12. SINGLE ALUMINUM L-BRACKET; TYP. LENGHT 60MM (2 3/8")

13. DOUBLE ALUMINUM L-BRACKET; TYP. LENGHT 60MM (2 3/8")

14. THERMAL INSULATION SPECIFICALLY ENGINEERED FOR CAVITY WALL APPLICATIONS; BY OTHERS; RECOMMENDED OPTIONS: (1) ROXUL CAVITYROCK DD (STONE WOOL), IS A DUAL DENSITY INSULATION BOARD WITH A HIGH-DENSITY OUTER LAYER, (2) THERMAX, IS A GLASS-FIBER-REINFORCED POLYISOCYANURATE FOAM CORE FACED WITH THERMOSER-COATED ALUMINUM ON ONE SIDE AND ALUMINUM ON THE OTHER.

15. FOR L-BRACKET/PROFILE: LT SELF DRILLING SCREW

16. POWDER COATED (BLACK) ALUMINUM T-PROFILE, 100x60x2.7MM (3 15/16"x2 3/8"x 1 8") 3M (118 1/8") LONG

17. POWDER COATED (BLACK) ALUMINUM L-PROFILE, 40x60x2.7MM (1 9/16"x2 3/8"x 1 8") 3M (118 1/8") LONG

18. FOR FIXING CLIP/PROFILE: STAINLESS STEEL SELF DRILLING SCREW

19. INVISIBLE/VISIBLE CENTRAL STAINLESS STEEL FIXING PLATE; TYP. 5MM (3/16") JOINT, ALSO AVAILABLE FOR 8MM (5/16")

20. INVISIBLE/VISIBLE LATERAL STAINLESS STEEL FIXING PLATE. TYP. 5MM (3/16") JOINT, ALSO AVAILABLE FOR 8MM (5/16")

21. INVISIBLE/VISIBLE START/END FIXING PLATE

22. INVISIBLE/VISIBLE STAGGERED STAINLESS STEEL FIXING PLATE. TYP. 5MM (3/16") JOINT, ALSO AVAILABLE FOR 8MM (5/16")

23. BLACK POLYURETHENE STRUCTURAL SILICON-P-404

24. PORCELAIN TILE; PORCELANOSA, VENIS OR URBATEK COLLECTION.

25. ALUMINUM FLASHING; BY OTHERS

VFS - PORCELAIN TILE CLADDING TYPICAL DETAILS

WINDOW FLUSH WITH BACK WALL

WINDOW SILL TO BE SLOPED 1%

TYP. JOINT 3/16" [5.00] TYP. JOINT 3/16" [5.00]

TYP. BUILUP 4 1/2" [116.00] TYP. BUILUP 4 1/2" [116.00]
1. EXTERIOR STUD WALL: DRY WALL, METAL/WOOD STUDS, SHEATING; BY OTHERS
2. EXTERIOR SOLID WALL: CMU/BRICK MASONRY/REINFORCED CONCRETE; BY OTHERS;
   RECOMMENDED OPTIONS: (1) TRENCO EZO AIR 230 FOR AIR/WATER BARRIER (ROLL/LIQUID APPLIED), (2) HENRY BLUESKIN SA FOR AIR/VAPOR/WATER BARRIER (PEEL&STICK), (3) GRACE ICE AND WATER SHIELD FOR WIND DRIVEN RAIN AND ICE DAMS (PEEL&STICK).
3. WINDOW SYSTEM; BY OTHERS
4. FOR CMU WALL: HIT-MM PLUS (CHEMICAL ANCHOR), HIT SC M16X85 (SLEEVE) & HIT-V M10x95 (THREADED ROD) STAINLESS/GALVANISED STEEL SCREW
5. FOR REINFORCED CONCRETE: HSA-M10 STAINLESS/GALVANISED STEEL SCREW
6. FOR BRICK MASONRY: HRD-H-10x80 (ANCHORAGE PLUG) & HRD-H-10x80 (ANCHORAGE BOLT) STAINLESS/GALVANISED STEEL SCREW
7. FOR METAL STUD: S-MD55S 5.5x50 STAINLESS STEEL SELF DRILLING SCREW
8. FOR WOOD STUD: 6x50-DIN 571 STAINLESS STEEL SELF DRILLING SCREW
9. FOR ALUMINUM OMEGA PROFILE 20x140MM (13 16" x 5 12") 3M (118 18") LONG
10. FOR FIXING CLIP/PROFILE: STAINLESS STEEL SELF DRILLING SCREW
11. INVISIBLE/VISIBLE CENTRAL STAINLESS STEEL FIXING PLATE; TYP. 5MM (3 16") JOINT, ALSO AVAILABLE FOR 8MM (5 16")
12. INVISIBLE/VISIBLE LATERAL STAINLESS STEEL FIXING PLATE. TYP. 5MM (3 16") JOINT, ALSO AVAILABLE FOR 8MM (5 16")
13. INVISIBLE/VISIBLE START/END FIXING PLATE
14. INVISIBLE/VISIBLE STAGGERED STAINLESS STEEL FIXING PLATE. TYP. 5MM (3 16") JOINT, ALSO AVAILABLE FOR 8MM (5 16")
15. ALUMINUM FLASHING; BY OTHERS
16. ALUMINUM FLASHING; BY OTHERS
17. ALUMINUM FLASHING; BY OTHERS
18. ALUMINUM FLASHING; BY OTHERS
19. ALUMINUM FLASHING; BY OTHERS
20. ALUMINUM FLASHING; BY OTHERS
21. ALUMINUM FLASHING; BY OTHERS
22. ALUMINUM FLASHING; BY OTHERS
23. BLACK POLYURETHANE STRUCTURAL SILICON-P-404
24. PORCELAIN TILE; PORCELANOSA, VENIS OR URBATEK COLLECTION.
25. ALUMINUM FLASHING; BY OTHERS

VFS - PORCELAIN TILE CLADDING TYPICAL DETAILS
WINDOW FLUSH WITH PORCELAIN CLADDING
TYPICAL JOINT 3 16" [5.00]"
1. Exterior stud wall: DRY WALL, METAL/WOOD STUDS, SHEATING; BY OTHERS

2. Exterior solid wall: CMU/BRICK MASONRY/REINFORCED CONCRETE; BY OTHERS

3. DAMP-PROOF COARSE (DPC); BY OTHERS; RECOMMENDED OPTIONS: (1) TREMCO EZO AIR 230 FOR AIR/WATER BARRIER (ROLL/LIQUID APPLIED), (2) HENRY BLUESKIN SA FOR AIR/VAPOR/WATER BARRIER (PEEL&STICK), (3) GRACE ICE AND WATER SHIELD FOR WIND DRIVEN RAIN AND ICE DAMS (PEEL&STICK).

4. WINDOW SYSTEM; BY OTHERS

5. FOR CMU WALL: HIT-MM PLUS (CHEMICAL ANCHOR), HIT SC M16X85 (SLEEVE) & HIT-V M10x95 (THREADED ROD) STAINLESS/GALVANISED STEEL SCREW

6. FOR REINFORCED CONCRETE: HSA-M10 STAINLESS/GALVANISED STEEL SCREW

7. FOR BRICK MASONRY: HRD-H-10x80 (ANCHORAGE PLUG) & HRD-H-10x80 (ANCHORAGE BOLT) STAINLESS/GALVANISED STEEL SCREW

8. FOR METAL STUD: S-MD55S 5.5x50 STAINLESS STEEL SELF DRILLING SCREW

9. FOR WOOD STUD: 6x50-DIN 571 STAINLESS STEEL SELF DRILLING SCREW

10. ALUMINUM OMEGA PROFILE 20x140MM (3/16"x5/12") 3M (118 18") LONG

11. SINGLE/DOUBLE THERMAL ISOLATORS (PLASTIC PAD)

12. SINGLE ALUMINUM L-BRACKET; TYP. LENGHT 60MM (23/8"")

13. DOUBLE ALUMINUM L-BRACKET; TYP. LENGHT 60MM (23/8"")

14. THERMAL INSULATION SPECIFICALLY ENGINEERED FOR CAVITY WALL APPLICATIONS; BY OTHERS; RECOMMENDED OPTIONS: (1) ROXUL CAVITYROCK DD (STONE WOOL), IS A DUAL DENSITY INSULATION BOARD WITH A HIGH-DENSITY OUTER LAYER, (2) THERMAX, IS A GLASS-FIBER-REINFORCED POLYISOCYANURATE FOAM CORE FACED WITH THERMOSER-COATED ALUMINUM ON ONE SIDE AND ALUMINUM ON THE OTHER.

15. FOR L-BRACKET/PROFILE: LT SELF DRILLING SCREW

16. POWDER COATED (BLACK) ALUMINUM T-PROFILE, 100x60x2.7MM (315/16"x23/8"x18") 3M (118 18") LONG

17. POWDER COATED (BLACK) ALUMINUM L-PROFILE, 40x60x2.7MM (19/16"x23/8"x18") 3M (118 18") LONG

18. FOR FIXING CLIP/PROFILE: STAINLESS STEEL SELF DRILLING SCREW

19. INVISIBLE/VISIBLE CENTRAL STAINLESS STEEL FIXING PLATE; TYP. 5MM (3/16") JOINT, ALSO AVAILABLE FOR 8MM (5/16")

20. INVISIBLE/VISIBLE LATERAL STAINLESS STEEL FIXING PLATE. TYP. 5MM (3/16") JOINT, ALSO AVAILABLE FOR 8MM (5/16")

21. INVISIBLE/VISIBLE START/END FIXING PLATE

22. INVISIBLE/VISIBLE STAGGERED STAINLESS STEEL FIXING PLATE. TYP. 5MM (3/16") JOINT, ALSO AVAILABLE FOR 8MM (5/16")

23. BLACK POLYURETHANE STRUCTURAL SILICON-P-404

24. PORCELAIN TILE; PORCELANOSA, VENIS OR URBATEK COLLECTION.

25. ALUMINUM FLASHING; BY OTHERS

DETAIL A - TYPICAL WINDOW HEAD DETAIL

DETAIL B - TYPICAL WINDOW SILL DETAIL
DETAIL A - TYPICAL WINDOW JAMB DETAIL

*FOR 1/4" (100MM) OF THERMAL INSULATION THICKNESS, TYPICAL BUILDUP INCREASES TO 5/16" (10MM)
*L-BRACKET INCREASES TO THE NEXT SIZE UP - 3/8" (18MM)
THERMAL INSULATION SPECIFICALLY ENGINEERED

INVISIBLE/VISIBLE START/END FIXING PLATE
MAXIMUM THICKNESS OF 3M (118"

VENTILATION
AIR GAP TO BE 2" (50MM) MINIMUM

DETAIL A - TYPICAL WINDOW HEAD DETAIL

*FOR 1" (25MM) OF THERMAL INSULATION THICKNESS, TYPICAL BUILDUP INCREASES TO 5" (125MM)
*L-BRACKET INCREASES TO THE NEXT SIZE UP - 2" (50MM)

DETAIL B - TYPICAL WINDOW SILL DETAIL

MAXIMUM THICKNESS OF INSULATION WITHIN TYPICAL BUILDUP 1" (25MM)

VENTILATION
AIR GAP TO BE 2" (50MM) MINIMUM
UNDER NO CIRCUMSTANCES SHOULD DIMENSIONS BE SCALED FROM THIS DRAWING. "IF IN DOUBT ASK".

COPYRIGHT AND DISTRIBUTION TO THIRD PARTIES PROHIBITED.

ALL DIMENSIONS TO BE RE-CHECKED ON-SITE.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE RELEVANT ENGINEER.

important note
shop drawings review
status
A
status
B
status
C
date reviewed
job title
drawn
checked
drawing title
scale
BANK OF DETAILS

detail reviewed by: ......................
VFS - PORCELAIN TILE CLADDING

COPING DETAILS

COPING TO BE SLOPED 2%

*PORCELANOSA STRONGLY RECOMMENDS TO USE A FULL SERVICE WATERPROOFING MEMBRANE IN THIS CIRCUMSTANCE GIVEN THAT WATER INGRESS IS LIKELY TO OCCUR DUE TO NOT HAVING A DROP IN THE TILE.
15/02

IV/JC

Revision A

Under no circumstances should dimensions be scaled from this drawing. "If in doubt ask." Copyright and distribution to third parties prohibited. All dimensions to be re-checked on-site. This drawing is to be read in conjunction with all other relevant drawings, any discrepancies to be brought to the attention of the relevant engineer.

Drawing reviewed by: ......................

Shop drawings review

Status A

Status B

Status C

Date reviewed

Job title

Drawn

Checked

Drawing title

Scale

Bank of Details

Important note

1. Exterior Stud Wall: Dry Wall, Metal/Wood Studs, Sheathing; By Others
2. Exterior Solid Wall: CMU/Brick Masonry/Reinforced Concrete; By Others
3. Damper-Proof Course (DPC); By Others; Recommended Options: (1) Tremco EZO Air 230 for Air/Water Barrier (Roll/Liquid Applied), (2) Henry Blueskin SA for Air/Vapor/Water Barrier (Peel&Stick), (3) Grace Ice and Water Shield for Wind Driven Rain and Ice Dams (Peel&Stick).
4. Window System; By Others
5. For CMU Wall: Hit-MM Plus (Chemical Anchor), Hit SC M16x85 (Sleeve) & Hit-V M10x95 (Threaded Rod) Stainless/Galvanized Steel Screw
6. For Reinforced Concrete: HSA-M10 Stainless/Galvanized Steel Screw
7. For Brick Masonry: HRD-H-10x80 (Anchorage Plug) & HRD-H-10x80 (Anchorage Bolt) Stainless/Galvanized Steel Screw
8. For Metal Stud: S-MD55S 5.5x50 Stainless Steel Self Drilling Screw
9. For Wood Stud: 6x50-DIN 571 Stainless Steel Self Drilling Screw
10. Aluminum Omega Profile 20x140mm (1 13/16" x 5 1/2") 3M (1 18/16") Long
11. Single/Double Thermal Isolators (Plastic Pad)
12. Single Aluminum L-Bracket; Typ. Length 60mm (2 3/8")
13. Double Aluminum L-Bracket; Typ. Length 60mm (2 3/8")
14. Thermal Insulation Specifically Engineered for Cavity Wall Applications; By Others; Recommended Options: (1) Roxul Cavityrock DD (Stone Wool), is a Dual Density Insulation Board with a High-Density Outer Layer, (2) Thermax, is a Glass-Fiber-Reinforced Polyisocyanurate Foam Core Faced with Thermoser-Coated Aluminum on One Side and Aluminum on the Other.
15. For L-Bracket/Profile: LT Self Drilling Screw
16. Powder Coated (Black) Aluminum T-Profile, 100x60x2.7mm (3 15/16" x 2 3/8" x 1 8/16") 3M (1 18/16") Long
17. Powder Coated (Black) Aluminum L-Profile, 40x60x2.7mm (1 9/16" x 2 3/8" x 1 8/16") 3M (1 18/16") Long
18. For Fixing Clip/Profile: Stainless Steel Self Drilling Screw
19. Invisible/Visible Central Stainless Steel Fixing Plate; Typ. 5mm (3/16") Joint, Also Available for 8mm (5/16")
20. Invisible/Visible Lateral Stainless Steel Fixing Plate. Typ. 5mm (3/16") Joint, Also Available for 8mm (5/16")
21. Invisible/Visible Start/End Fixing Plate
22. Invisible/Visible Staggered Stainless Steel Fixing Plate. Typ. 5mm (3/16") Joint, Also Available for 8mm (5/16")
23. Black Polyurethane Structural Silicone
24. Porcelain Tile Porcelain, Taps or Grout in Color to Coordinate
25. Aluminum Flashing By Others

Detail A - Typical External Corner Detail

Detail B - Typical Internal Corner Detail
Porcelanosa’s Porcelain ventilated façade system is a versatile system that offers the option to install soffits, providing a more continuous and seamless, finished look to a project.

For a soffit installation, all system components are the same as the façade. However, specifications and substructure layout may vary according to the conditions of each project.

**DESIGN-ASSISTED PROJECT**

For a design-assist project, all soffit specifications will be drawn by Porcelanosa’s technical department.

**STANDARD PROJECT**

For standard projects, refer to this bulletin and guide for soffit installation. Please contact Porcelanosa’s Façade Technical Department for additional information and assistance.

The standard soffit installation process follows the same steps as the façade install:

1. **LAYOUT**

   A. Whenever possible, completely install the layout of the facade with which this soffit is going to be joined. This allows for square and exact references for the continuity of the joints and verification of levels.

   B. For a large soffit, as in the case of a carport for example, the installer can mark the layout on the floor, where it is easier to take exact measurements, and then move it to the soffit with a laser level.
2. INSTALL SUBSTRUCTURE

A. Once the layout is complete, the installer can start to install the substructure system: first the Omega profile, followed by the brackets, and finished with the profiles.

B. As with the façade, the **Omega profile is installed first.** Right into the marked position in the soffit. Place 2 screws at both ends of the omega profile to secure it in place. The fasten the remaining, intermediary screws into each framing member as specified.

C. Next, install the appropriate brackets, also called angles, at their predetermined locations on the omega profile piece.

D. Finally, attach the T and/or L profiles would be installed. For the adjustment of profile levels in a soffit, it is recommend- ed to use a rotary laser level with receiver control, especially if it has a large dimension. This kind of tool allows install the profiles with maximum precision.

Use suitable gripping tools to support the profile while the installers are adjusting it to the level, and during fastening.
3. INSULATION

Apply the insulation can be installed, if specified for the project, once the entire substructure (steps 1 and 2 above) are completed.

3. INSTALL PANELS

Once substructure and insulation are in place, we are ready to apply the panels.

A. Place the starter fixing clip according to layout
B. Apply construction adhesive, p404 onto the profiles according to instructions on package.

Keep in mind that soffit installation will require at least two installers to do properly.

TIP

Use small clamps to hold the piece while the installers are preparing clips and screws, to leave the piece installed in its position.
It is imperative to use the leveling wedges system provided by Porcelanosa with your order.

The Leveling Wedges:

1. Provide even spacing and proper finished look of the panels. They prevent panel movement while the construction adhesive cures.
2. Push the panel against the profiles. This pressure ensures proper distribution of the adhesive.
3. Help to leave a perfect alignment of the panels, and equal joint widths throughout the project.

It is recommended to maintain the leveling wedges as long as possible, so that the adhesive dries. At least 24 hours. Once leveling wedges are removed, the panels can be cleaned with water and a sponge, if necessary. If there is any remaining P-404 adhesive, it can be easily cleaned with alcohol or acetone. The ventilated façade system in the soffit will also prevent the accumulation of humidity, and does not require maintenance.

Please contact Porcelanosa Facades Technical Department for additional help or for more information regarding soffit installation.
EXAMPLES OF FINISHED SOFFITS

[Images of finished soffits]

Additional Installation information, Specifications, Certificates, and Warranty are available at porcelanosafacades.com
COORDINATING THE DIFFERENT JOBS, DIFFERENT ELEMENTS CAN BE INSTALLED IN THE SOFFIT WITHOUT ANY PROBLEM