# Code Compliance Research Report
# CCRR-0634

**Issue Date: 11-14-2025**
**Revised Date: 06-01-2026**
**Renewal Date: 11-30-2026**

**DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION**
**Section: 07 42 43 – Composite Wall Panels**

**REPORT HOLDER:**
**Parklex Prodema USA, Inc.**
**218 River Park North Drive**
**Woodstock, Georgia 30188**
**www.parklexprodema.com**

**REPORT SUBJECT:**
**NATURCLAD-B F Wall Panel Cladding System**

## 1.0 SCOPE OF EVALUATION

**1.1** This Research Report addresses compliance with the following Codes:

- 2024, 2021, and 2018 *International Building Code®* (IBC)
- 2024, 2021 and 2018 *International Residential Code®* (IRC)
- 2025, 2022 *California Building Code* (see Section 9)
- 2023, 2020 *Florida Building Code* (see Section 9)

NOTE: This report references the most recent Code editions noted. Section numbers in earlier editions may differ.

**1.2** The NATURCLAD-B F Wall Panel Cladding System has been evaluated for the following properties (see Table 1):

- Physical properties
- Weather resistance
- Wind load resistance
- Surface burning characteristics

**1.3** The NATURCLAD-B F Wall Panel Cladding System has been evaluated for the following uses (see Table 1):

- Use as exterior wall covering on buildings of Types I, II, III, IV and V construction
- Use as interior finish

## 2.0 STATEMENT OF COMPLIANCE

The NATURCLAD-B F Wall Panel Cladding System complies with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.0.

**2.1 2024 IBC and IRC Evaluation Reports:** The Intertek CCRR is an *Evaluation Report* for approval of an alternate material, design, or method of construction in accordance with Section 104.2.3.6.1 of the 2024 IBC and Section R104.2.2.6.1 of the 2024 IRC.

## 3.0 DESCRIPTION

**3.1 NATURCLAD-B F Panels:** The panels are decorative high-pressure laminates (HPL) complying with IBC Section 1408. The panels are supplied in the following nominal dimensions:

- 8mm thickness and a 4-foot by 8-foot panel dimension when using the exposed installation systems.
- 8 mm thickness and 6-inch, 8-inch and 12-inch by 8-foot panel dimensions when using the siding installation system.

The panels have an integrated decorative wood-grain surface in a variety of colors.

**3.2 Substructure System:** The substructure may use the following components. See Table 2 for dimensions of these components:

- Z-girts of 16 ga. (0.0538 in.) galvanized steel (min. yield strength of 35 ksi)
- L-profile rails, J-channels, perforated J-channels, Hat channels, perforated Hat channels, hanging rails, hangers of ASTM B317, 6063-T5 aluminum
- Treated lumber complying with Chapter 23 of the IBC and fixing clips (for use with the siding system)

**3.3 Fasteners:**

- Exposed Fasteners: Fasteners used for the exposed fastening system are SX3 #12-11 irius Drive E420, Torx Drive D12 pan-head or SX4-5.8, stainless steel self-drilling screws.
- Fasteners for siding system: Aluminum fixing clips are attached with DIN 7505B M3.5 screws for wood battens and with DIN 7504N M3.5 screws for J-channels and Hat-channels Where the last row of slats is cut

lengthwise, a TW-S-4.8 screw and washer are used to attach the slat when using treated lumber battens, and an SX3 screw is used when attaching to aluminum J-channels and Hat-channels.
- Fasteners shall be galvanized steel or stainless steel.

## 4.0 PERFORMANCE CHARACTERISTICS

**4.1 Flame Spread Characteristics:** The panels have a Class A classification (flame spread index of 25 or less and a smoke developed index of 450 or less) when tested in accordance with ASTM E84 (UL 723).

**4.2 Wind Resistance:** Assemblies tested in accordance with ASTM E330 are described in Section 5.3.

**4.3 Ignition Resistance:** The panels, when installed in accordance with this report, comply with NFPA 268 when tested at an incident heat flux of 12.5 kW/m$^2$.

## 5.0 INSTALLATION

**5.1 General:** The NATURCLAD-B F Wall Panel Cladding System must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

The panels are installed as an open-jointed wall covering that allows air to circulate behind the panels. The cladding system must be installed over flashing and a water-resistive barrier complying with IBC Section 1402 or IRC Section R703.

The base wall to which the system is attached must be capable of supporting the applied loads.

The panels are installed over one of the following systems:
- Exposed fasteners: horizontal and vertical Z-girts
- Exposed fasteners: horizontal L-profile rails, J-channels and hat channels
- Siding System: 2x preservative treated lumber attached to supporting wall; lumber is covered with a strip of EPDM membrane; use of J-channels and hat channels is permitted. The system may be installed with panels oriented horizontally, or vertically when using perforated J-channels and Hat channels.

The attachment system is designed to create space for insulation and to provide a maximum 1-inch air cavity between the insulation or water-resistive barrier and the back of the wall panel for the exposed system, and a maximum 1-5/32-inch space for the Siding System. See Figures 1 through 10.

Minimum 1-inch, 4 pcf noncombustible mineral wool insulation may be used in the systems provided the air gap limits are maintained. The mineral wool is installed with girts sized for the insulation thickness.

**5.2 Interior Walls:** The NATURCLAD-B F wall panels may be used where a Class A, B, or C interior finish is required. When installed with space between panels, the panels must be installed over a substrate having an equal classification.

**5.3 Wind Resistance:** See Table 3 for allowable wind loads when installed as described in this report.

Anchorage of the NATURCLAD-B F system and the supporting wall structure must be designed for each jobsite. Calculations must be provided to the building official demonstrating the system anchorage and supporting wall meets project specified design loads and local Code requirements. Design loads must not exceed the allowable wind loads for the system, as described in Table 3.

**5.4 Exterior Walls of Types I, II, III, and IV Construction:** Construction of exterior walls incorporating the NATURCLAD-B F Wall Panel Cladding System are described in Intertek Design Listings PUI/CWP 30-03 and PUI/CWP 30-05. See Intertek Listing Report 75704 on the Intertek Directory (https://bpdirectory.intertek.com).

**5.5 Exterior Walls of Type V Construction:** When installed in accordance with this report, the NATURCLAD-B F Wall Panel Cladding System may be used on exterior walls of buildings permitted to be of Type V construction.

## 6.0 CONDITIONS OF USE

**6.1** Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

**6.2** Wind design loads determined from nominal design wind speeds ($V_{asd}$) in accordance with Section 1609.3.1 of

the IBC shall not exceed the maximum allowable wind loads given in Table 3.

**6.3** Drawings, design details and calculations verifying compliance with this report and the adequacy of connections and supporting framing must be submitted to the Code official for approval. The drawings and calculations must be prepared by a registered design professional when required by the statutes of the jurisdiction in which the project is to be constructed.

**6.4** Use on walls required to be of fire-resistance-rated construction is outside the scope of this report.

**6.5** The cladding system must be installed by qualified installers acceptable to Parklex Prodema USA, Inc.

**6.6** The NATURCLAD-B F wall panels are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

## 7.0 SUPPORTING EVIDENCE

**7.1** Reports of tests in accordance with ASTM E330, NFPA 268, NFPA 285, TAS 201, TAS 202 and TAS 203.

**7.2** Data in accordance with the ICC-ES Acceptance Criteria Polymer-Based, Polymer-Modified and High-Pressure Laminate Exterior and Interior Wall Cladding (AC92), dated December 2013.

**7.3** Intertek Listing Report "Parklex Prodema NATURCLAD-B F Panels," on the Intertek Directory of Building Products.

## 8.0 IDENTIFICATION

The NATURCLAD-B F Panels are identified with the manufacturer's name (Parklex Prodema USA, Inc.), the product name, the Intertek Mark as shown below, the Intertek Control Number and the Code Compliance Research Report number (CCRR-0634).

## 9.0 OTHER CODES

**9.1 California Building Code:** The NATURCLAD-B F Wall Panel Cladding System described in Sections 2 through 8 of this report complies with the 2025 and 2022 *California Building Code* (excluding Chapter 7A) and 2025 and 2022 *California Residential Code* (excluding Section R337). Section numbers referenced for the IBC and IRC are the same for the CBC and CRC, respectively.

**9.2 Florida Building Code:** The NATURCLAD-B F Wall Panel Cladding System described in Sections 2 through 8 of this report complies with the 2023 and 2020 *Florida Building Code - Building* and *Florida Building Code - Residential*, subject to the following conditions:

- Siding System: The Siding System is limited to areas not in the High Velocity Hurricane Zones.
- Exposed Fasteners: When installed with exposed fasteners, the system may be installed in High Velocity Hurricane Zones.
- The system has been evaluated for maximum design pressures of 60 psf, positive and negative, in accordance with FBC Section 1626.
- The system may be used on construction units, assemblies and materials to be used above 30 feet in height in any and all structures, except Risk Category IV - Essential Facility buildings or structures, in accordance with FBC Section 1626.3.1.

Intertek is an approved evaluation entity and quality assurance entity pursuant to Florida Statute 553.842 – *Product Evaluation and Approval*.

## 10.0 CODE COMPLIANCE RESEARCH REPORT USE

**10.1** Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

**10.2** Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

**10.3** Reference to the https://bpdirectory.intertek.com is recommended to ascertain the current version and status of this report.

**TABLE 1A – PROPERTIES EVALUATED - IBC AND CBC**

| PROPERTY | APPLICABLE CODE SECTIONS[1] | | | |
|---|---|---|---|---|
| | IBC | IRC | CBC | CRC |
| Physical properties / durability | 1408.7 | R104.2.2.4 | 1408.7 | 104.11 |
| Weather resistance | 1408.6 | R703.1.1 | 1408.6 | R703.1.1 |
| Wind load resistance | 1408.4 | R703.1.2 | 1408.4 | R703.1.2 |
| Surface burning characteristics | 803.1<br>1408.9<br>1408.10.1 | R302.9 | 803.1<br>1408.9<br>1408.10.1 | R302.9 |
| Use in Types I-IV construction | 1408.10 | Not applicable | 1408.10 | Not applicable |

[1] Section numbers relate to the most recent Code edition cited in Section 1.1 of this report.

**TABLE 1B – PROPERTIES EVALUATED - FBC**

| PROPERTY | 2023 FBC-BUILDING SECTION | 2023 FBC-RESIDENTIAL SECTION |
|---|---|---|
| Physical properties / durability | 1405.1<br>1409.7 | 104.11 |
| Weather resistance | 1409.6 | R703.1.1 |
| Wind load resistance | 1409.4 | R703.1.2 |
| Surface burning characteristics | 803.1<br>1409.9<br>1409.10.1 | R302.9 |
| Use in Types I-IV construction | 1409.10 | Not applicable |
| High velocity hurricane zones | 1626 | R4401.1 |

**TABLE 2 – ATTACHMENT SYSTEM COMPONENTS**

| COMPONENT | DESCRIPTION |
|---|---|
| Horizontal Z-girt | 1-1/2” x 3-1/2” x 2-1/2” |
| Vertical Z-girt | 1-1/2” x 1” x 2-1/2” |
| Wall bracket | 3/16” x 3-9/16” x 5-5/16” |
| L-profile rails | 3/32” x 2-1/8” x 1-9/16” |
| J-channels, Hat channels | 1/8” x 1” |

[1]See Section 3.2 for material specifications.

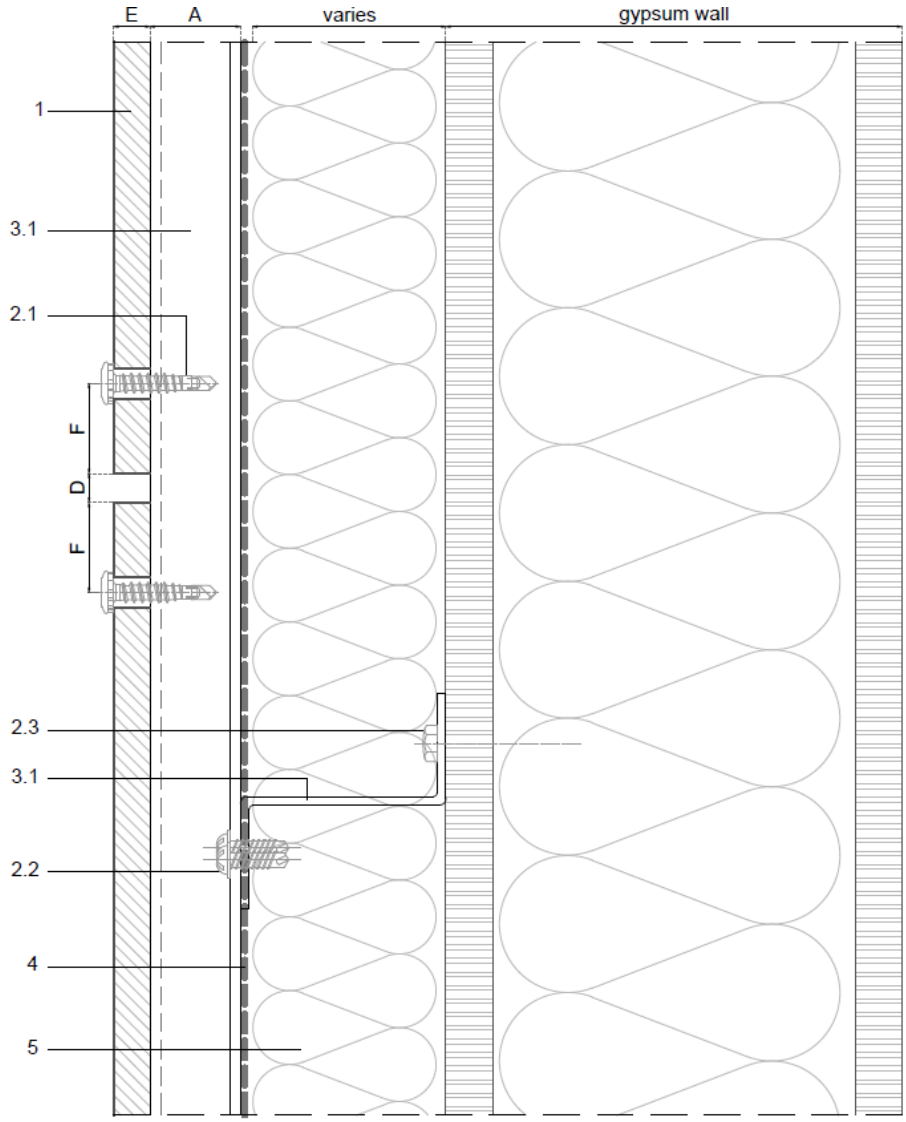
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**TABLE 3 – ALLOWABLE WIND RESISTANCE**

| FASTENING SYSTEM | PANEL THICKNESS (mm) | MAXIMUM SPACING OF FASTENERS AND SUPPORTS[1] (in.) | ALLOWABLE WIND RESISTANCE[4] (psf) | |
|---|---|---|---|---|
| | | | Positive | Negative |
| Exposed – 16 Ga. (0.0538 in.) galvanized-steel Z-Girts | 10 | 24[2] | 37 | 34 |
| | 12 | | | |
| Exposed – 1/8-inch-thick aluminum J-channels and hat channels placed vertically | 8 | | 38 | 23 |
| Siding – Panels attached using a fixing clip[3] to treated wood battens placed vertically, or aluminum J- or H- channels placed horizontally or vertically | 8 | 16 | 62 | 25 |

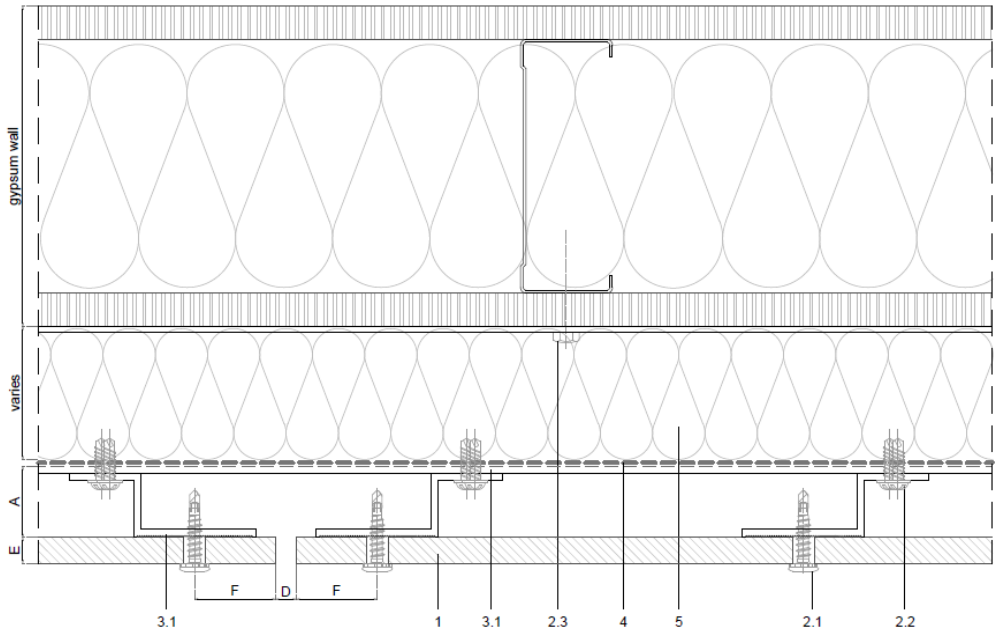
[1]Testing was carried out in a multi-span support configuration.
[2]Maximum spacing for girts, channels, fasteners, and panel span is 24 inches.
[3]Values based on SYP wood or other species with specific gravity equal or greater than 0.55.
[4]Allowable values are determined based on a factor of safety of 3.




| | | |
|---|---|---|
| 1 | NATURCLAD | |
| 2 | Screws | |
| | 2.1 | Panel fastener metal |
| | 2.2 | Channel fastener - by others |
| | 2.3 | Wall fixing screw - by others |
| 3 | Profiles | |
| | 3.1 | Z-girt - by others |
| | 3.2 | Jamb profile - by others |
| | 3.3 | Sill profile - by others |
| | 3.4 | Coronation profile - by others |
| 4 | Water resistant barrier - by others | |
| 5 | Thermal insulation - by others | |
| 6 | Vent. screen - by others | |

| | |
|---|---|
| A | Required min. air chamber = 1" (25,4mm) |
| B | Circulation of air • •3/4" (20mm) |
| D | Expansion joint 1/4" - 3/8" (6-10mm) |
| E | Panel thickness • •5/16" (8mm) |
| F | Distance from the screws to the panel edges 3/4" - 1 1/2" (20-40mm) |

**Figure 1 – Typical Installation - Horizontal Joint – Z-girts, Exposed Fasteners**




| | | |
|---|---|---|
| 1 | NATURCLAD | |
| 2 | Screws | |
| | 2.1 | Panel fastener metal |
| | 2.2 | Channel fastener - by others |
| | 2.3 | Wall fixing screw - by others |
| 3 | Profiles | |
| | 3.1 | Z-girt - by others |
| | 3.2 | Jamb profile - by others |
| | 3.3 | Sill profile - by others |
| | 3.4 | Coronation profile - by others |
| 4 | Water resistant barrier - by others | |
| 5 | Thermal insulation - by others | |
| 6 | Vent. screen - by others | |

| | |
|---|---|
| A | Required min. air chamber = 1" (25,4mm) |
| B | Circulation of air - 3/4" (20mm) |
| D | Expansion joint 1/4" - 3/8" (6-10mm) |
| E | Panel thickness - 5/16" (8mm) |
| F | Distance from the screws to the panel edges 3/4" - 1 1/2" (20-40mm) |

**Figure 2 – Typical Installation – Vertical Joint – Z-girts, Exposed Fasteners**

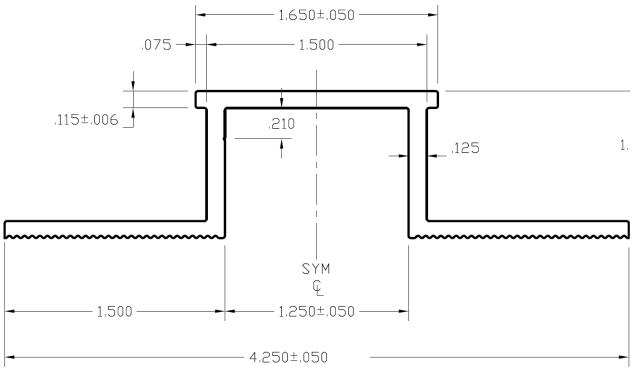



**Figure 3 – Hat Channel**

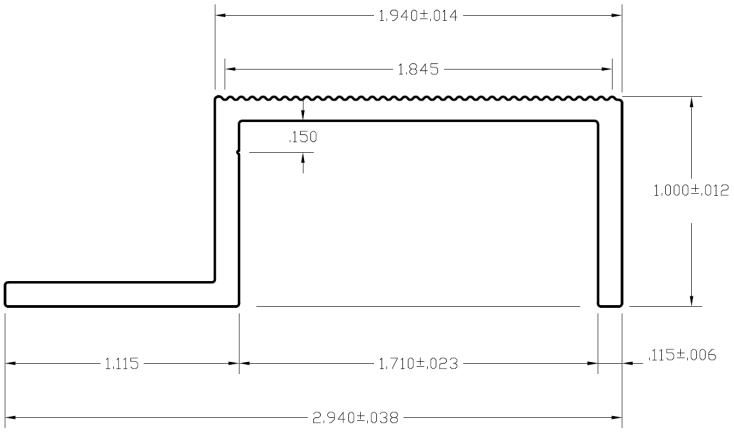
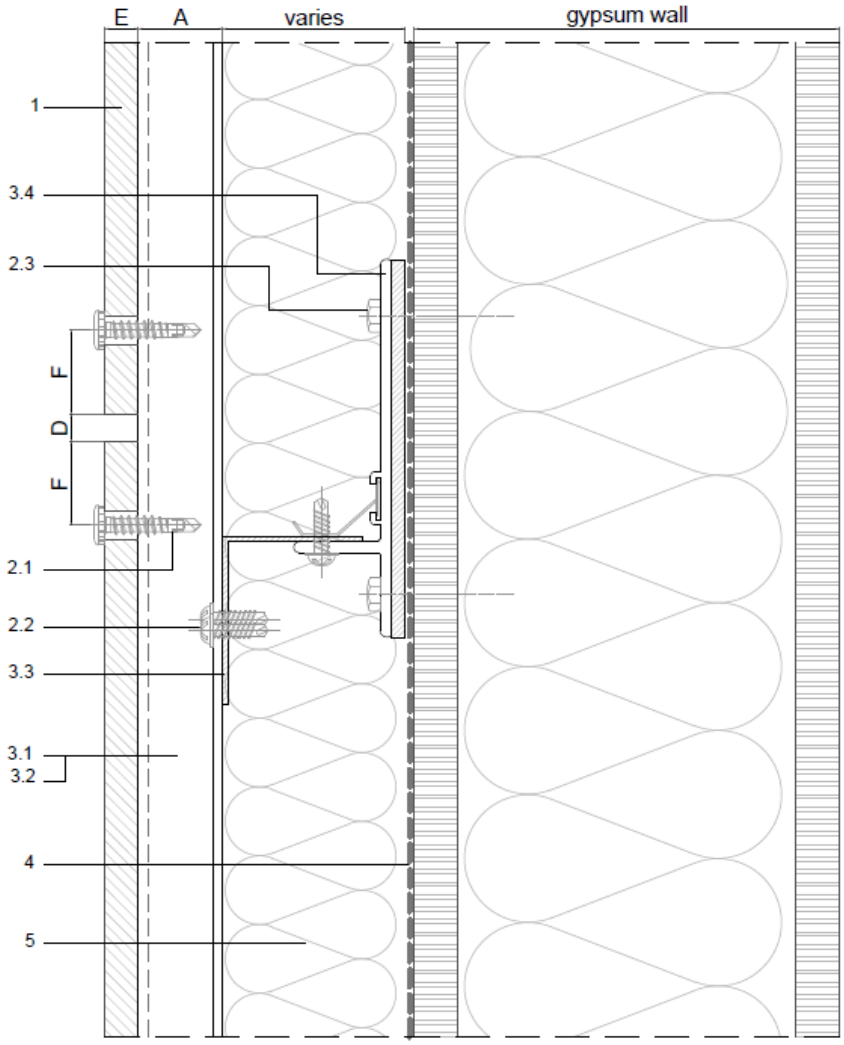


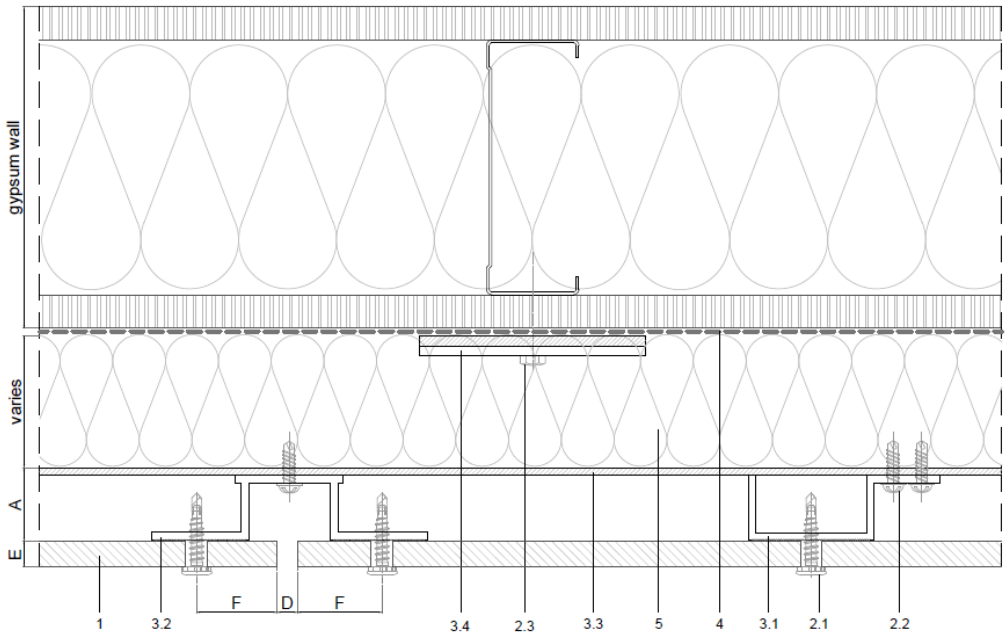

**Figure 4 – J-channel**




| | | |
|---|---|---|
| 1 | NATURCLAD | |
| 2 | Screws | |
| | 2.1 | Panel fastener metal |
| | 2.2 | Channel fastener - by others |
| | 2.3 | **Wall fixing screw - by others** |
| 3 | Profiles | |
| | 3.1 | Aluminum J profile |
| | 3.2 | Aluminum HAT profile |
| | 3.3 | Aluminum L profile |
| | 3.4 | Alum. wall bracket + Insulator pad |
| | 3.5 | Jamb profile - by others |
| | 3.6 | Sill profile - by others |
| | 3.7 | Coronation profile - by others |
| 4 | Water resistant barrier - by others | |
| 5 | Thermal insulation - by others | |
| 6 | Vent. screen - by others | |

| | |
|---|---|
| A | Air chamber= 1" (25,4mm) |
| B | Circulation of air • •3/4" (20mm) |
| D | Expansion joint 1/4" - 3/8" (6-10mm) |
| E | Panel thickness • •5/16" (8mm) |
| F | Distance from the screws to the panel edges 3/4" - 1 1/2" (20-40mm) |

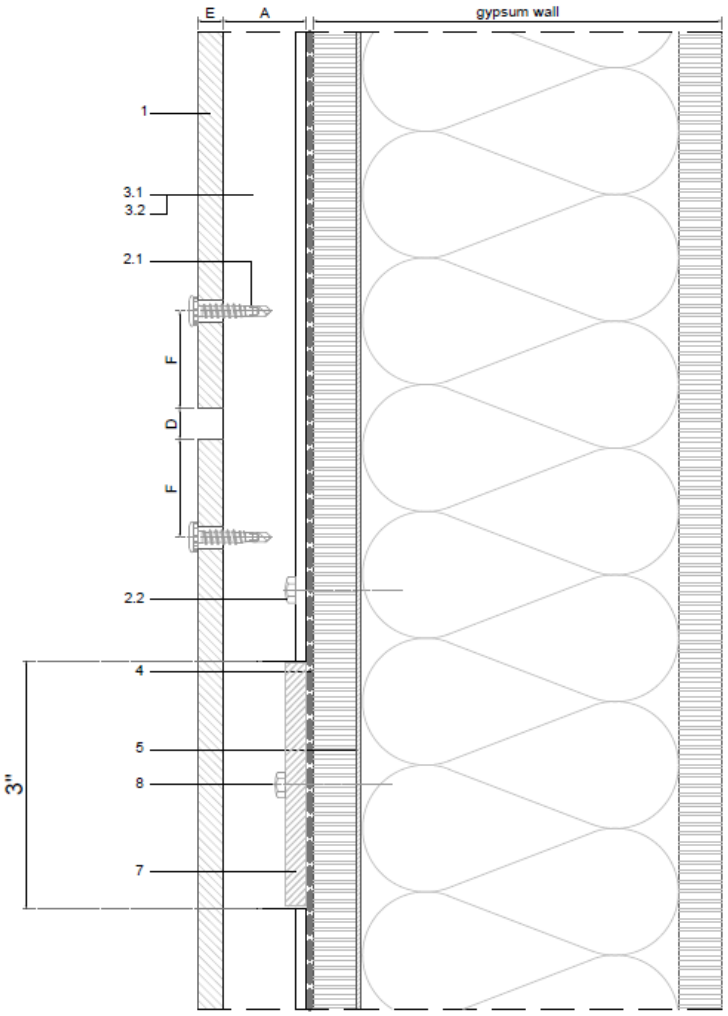
**Figure 5 – Typical Installation – Horizontal Joint – Aluminum J and Hat Channel, Exposed Fastener**




| | | |
|---|---|---|
| 1 | NATURCLAD | |
| 2 | Screws | |
| | 2.1 | Panel fastener metal |
| | 2.2 | Channel fastener - by others |
| | 2.3 | Wall fixing screw - by others |
| 3 | Profiles | |
| | 3.1 | Aluminum J profile |
| | 3.2 | Aluminum HAT profile |
| | 3.3 | Aluminum L profile |
| | 3.4 | Alum. wall bracket + Insulator pad |
| | 3.5 | Jamb profile - by others |
| | 3.6 | Sill profile - by others |
| | 3.7 | Coronation profile - by others |
| 4 | Water resistant barrier - by others | |
| 5 | Thermal insulation - by others | |
| 6 | Vent. screen - by others | |

| | |
|---|---|
| A | Air chamber= 1" (25,4mm) |
| B | Circulation of air - 3/4" (20mm) |
| D | Expansion joint 1/4" - 3/8" (6-10mm) |
| E | Panel thickness - 5/16" (8mm) |
| F | Distance from the screws to the panel edges 3/4" - 1 1/2" (20-40mm) |

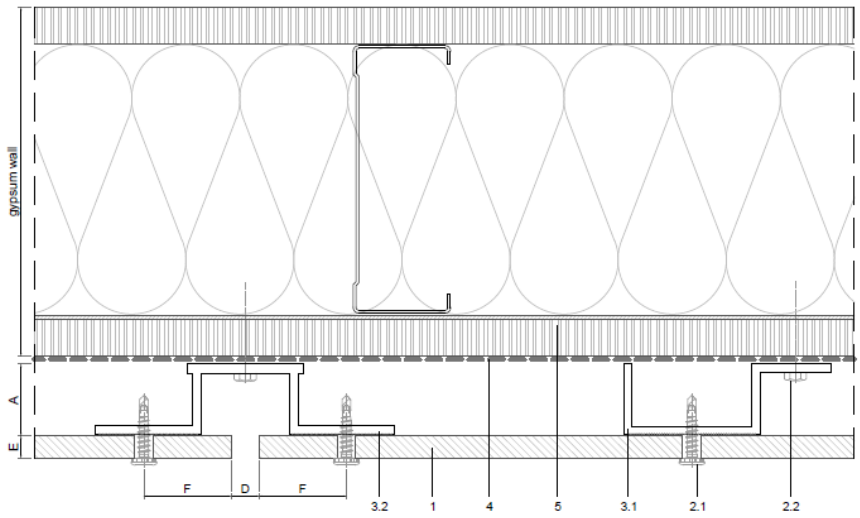
**Figure 6 – Typical Installation – Vertical Joint – Aluminum J and Hat Channel, Exposed Fastener**




| | | |
|---|---|---|
| 1 | NATURCLAD | |
| 2 | Screws | |
| | 2.1 | Panel fastener metal |
| | 2.2 | Wall fixing screw - by others |
| 3 | Profiles | |
| | 3.1 | Aluminum J profile |
| | 3.2 | Aluminum HAT profile |
| | 3.3 | Jamb profile - by others |
| | 3.4 | Sill profile - by others |
| | 3.5 | Coronation profile - by others |
| 4 | Water resistant barrier - by others | |
| 5 | Steel backing plate - by others | |
| 6 | Vent. screen - by others | |
| 7 | Tenmat FF102/50 Fire stopper<br>vertically placed every 40" (1000mm) - by others | |
| 8 | Fastener horizontally placed every 10" (250mm) - by others | |

| | |
|---|---|
| A | Air chamber = 1" (25,4mm) |
| B | Circulation of air • ·3/4" (20mm) |
| D | Expansion joint 1/4" - 5/16" (6-8mm) |
| E | Panel thickness • ·5/16" (8mm) |
| F | Distance from the screws to the panel<br>edges 3/4" - 1 1/2" (20-40mm) |

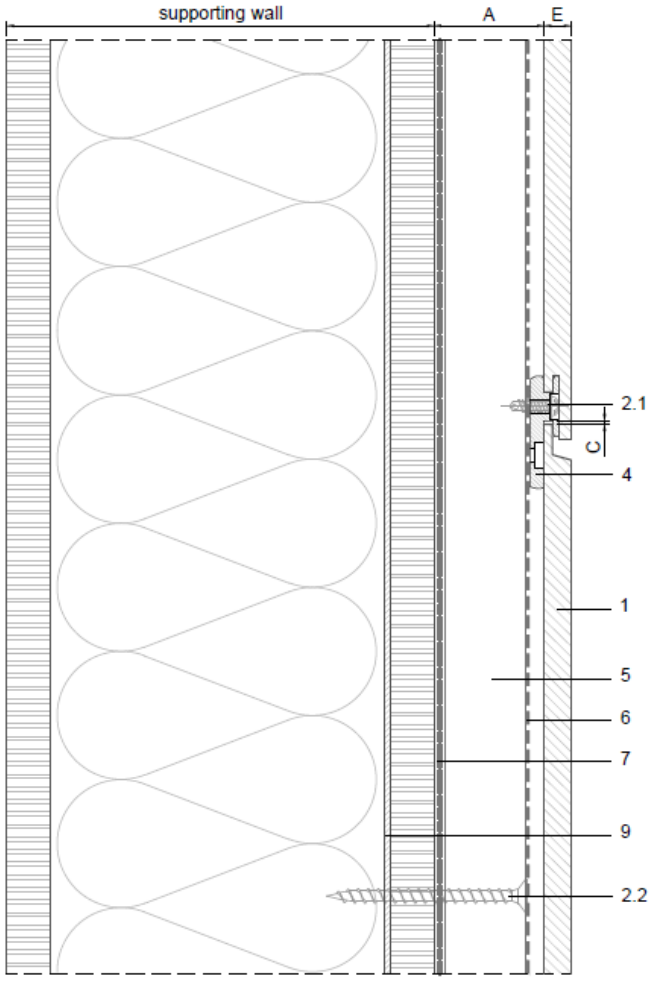
**Figure 7 – Typical Installation – Horizontal Joint – Aluminum J and Hat Channel, Exposed Fastener**




| | | |
|---|---|---|
| 1 | NATURCLAD | |
| 2 | Screws | |
| | 2.1 | Panel fastener metal |
| | 2.2 | Wall fixing screw - by others |
| 3 | Profiles | |
| | 3.1 | Aluminum J profile |
| | 3.2 | Aluminum HAT profile |
| | 3.3 | Jamb profile - by others |
| | 3.4 | Sill profile - by others |
| | 3.5 | Coronation profile - by others |
| 4 | Water resistant barrier - by others | |
| 5 | Steel backing plate - by others | |
| 6 | Vent. screen - by others | |
| 7 | Tenmat FF102/50 Fire stopper vertically placed every 40" (1000mm) - by others | |
| 8 | Fastener horizontally placed every 10" (250mm) - by others | |

| | |
|---|---|
| A | Air chamber = 1" (25,4mm) |
| B | Circulation of air - ·3/4" (20mm) |
| D | Expansion joint 1/4" - 5/16" (6-8mm) |
| E | Panel thickness - ·5/16" (8mm) |
| F | Distance from the screws to the panel edges 3/4" - 1 1/2" (20-40mm) |

**Figure 8 – Typical Installation – Vertical Joint – Aluminum J and Hat Channel, Exposed Fastener**




| | |
|---|---|
| 1 | NATURCLAD |
| 2 | Screws |
| 2.1 | Clip fixing screw |
| 2.2 | Wall fixing screw - by others |
| 2.3 | Twd-s screw |
| 2.4 | Washer 1/8" (3mm) - by others |
| 2.5 | Vent. screen fixing screw- by others |
| 3 | Profiles |
| 3.1 | Coronation profile - by others |
| 3.2 | Sill profile - by others |
| 3.3 | Jamb profile - by others |
| 3.4 | Corner profile - by others |
| 4 | Fixing clip |
| 5 | Wood batten - by others |
| 6 | EPDM tape - by others |
| 7 | Water resistant barrier - by others |
| 8 | Vent. screen - by others |
| 9 | Steel backing plate - by others |

| | |
|---|---|
| A | Required min. air chamber - ~~ø~~3/4" (20mm) |
| B | Circulation of air - ~~ø~~3/4" (20mm) |
| C | Horizontal expansion joint 1/16" (1mm) |
| D | Vertical expansion joint 5/8" (8mm) |
| E | Panel thickness 5/16" (8mm) |

**Figure 9 – Typical Installation – Horizontal Joint Siding System with Horizontal Panels**

| | | |
|---|---|---|
| 1 | NATURCLAD | |
| 2 | Screws | |
| | 2.1 | Clip fixing screw |
| | 2.2 | Wall fixing screw - by others |
| | 2.3 | Twd-s screw |
| | 2.4 | Washer 1/8" (3mm) - by others |
| | 2.5 | Vent. screen fixing screw- by others |
| 3 | Profiles | |
| | 3.1 | Coronation profile - by others |
| | 3.2 | Sill profile - by others |
| | 3.3 | Jamb profile - by others |
| | 3.4 | Corner profile - by others |
| 4 | Fixing clip | |
| 5 | Wood batten - by others | |
| 6 | EPDM tape - by others | |
| 7 | Water resistant barrier - by others | |
| 8 | Vent. screen - by others | |
| 9 | Steel backing plate - by others | |

| | |
|---|---|
| A | Required min. air chamber - 3/4" (20mm) |
| B | Circulation of air - 3/4" (20mm) |
| C | Horizontal expansion joint 1/16" (1mm) |
| D | Vertical expansion joint 5/6" (8mm) |
| E | Panel thickness 5/16" (8mm) |

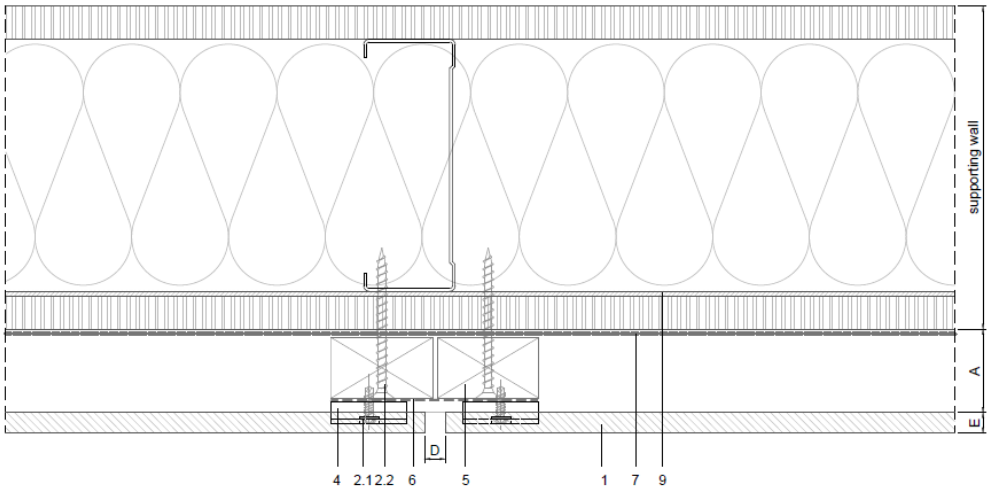



**Figure 10 – Vertical Joint – Siding System with Horizontal Panels**

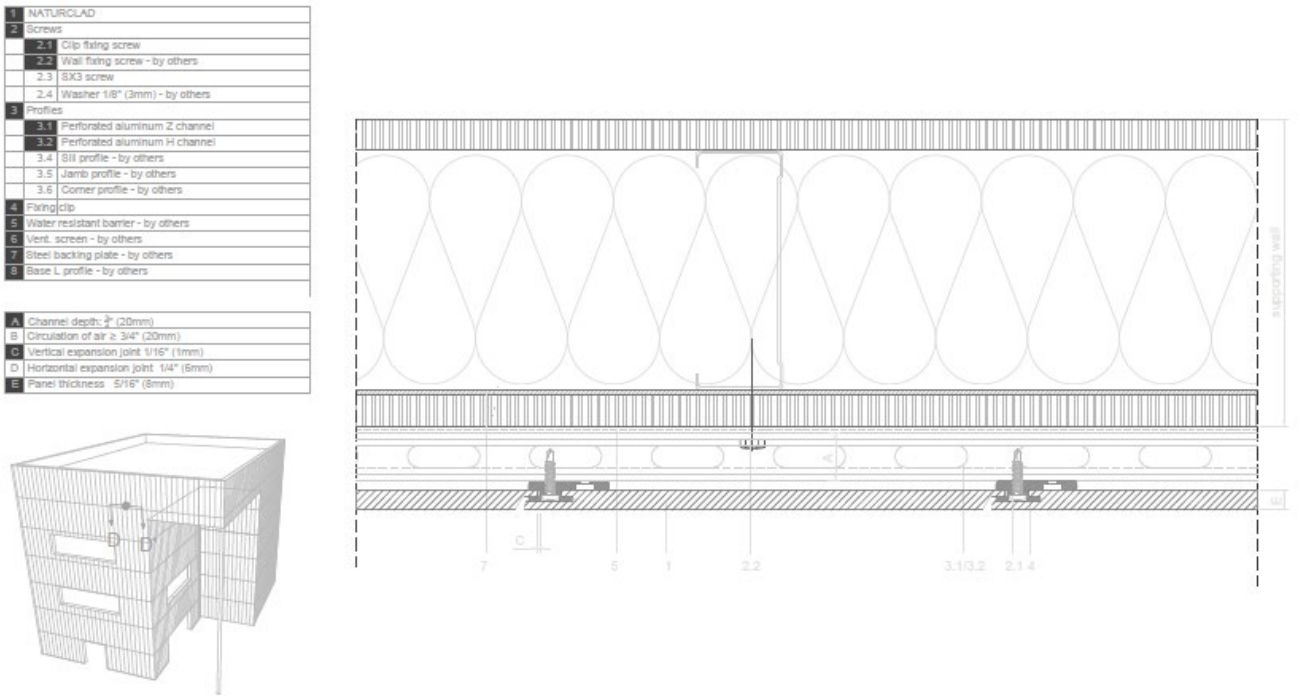



**Figure 11 – Vertical Joint – Siding System with Vertical Panels**

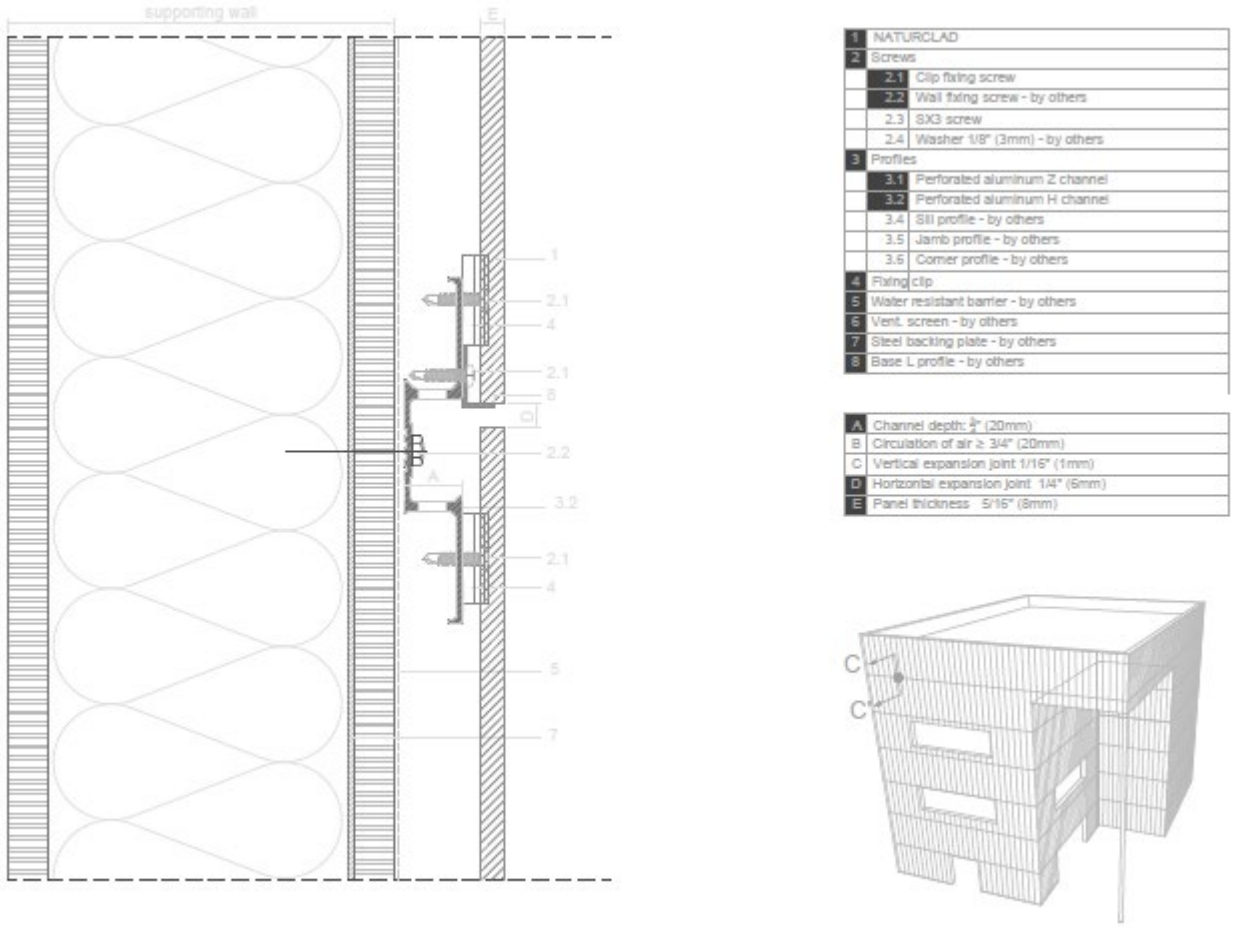



**Figure 12 – Horizontal Joint – Siding System with Vertical Panels**