



LISTING INFORMATION OF  
**James Hardie 7/16" Panel Siding**  
SPEC ID: 39761

James Hardie Building Products, Inc.  
10901 Elm Avenue  
Fontana, CA 92337  
United States

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## LISTING INFORMATION

James Hardie Reveal® and Pressed Reveal® are fiber cement panel sidings.

| Product         | Dimensions                                             | Weight     |
|-----------------|--------------------------------------------------------|------------|
| Reveal®         | Width: 48 in.<br>Length: 96 in.<br>Thickness: 7/16 in. | 3.1 lbs/ft |
| Pressed Reveal® | Width: 48 in.<br>Length: 96 in.<br>Thickness: 7/16 in. | 4.3 lbs/ft |

## PHYSICAL RATINGS

| Product                                   | Standard    | Rating                             |
|-------------------------------------------|-------------|------------------------------------|
| Reveal® and Pressed Reveal® Panel Sidings | ASTM C1186  | Meets Grade II, Type A             |
|                                           | BS EN 12467 | Meets Category A, Class 2, Level I |
|                                           | ISO 8336    | Meets Category A, Class 2, Level I |

## FIRE RATINGS

| Product                                   | Standard                  | Rating                                            | Design Listing Number |
|-------------------------------------------|---------------------------|---------------------------------------------------|-----------------------|
| Reveal® and Pressed Reveal® Panel Sidings | ASTM E136                 | Non-combustible                                   | N/A                   |
|                                           | CAN/ULC S114              | Non-combustible                                   | N/A                   |
|                                           | ASTM E84                  | Flame Spread Index: 0<br>Smoke Developed Index: 0 | N/A                   |
|                                           | CAN/ULC S102              | Flame Spread Index: 0<br>Smoke Developed Index: 5 | N/A                   |
|                                           | ASTM E119<br>CAN/ULC S101 | 1 Hour                                            | JH/FCS 60-01          |
|                                           |                           |                                                   | JH/FCS 60-02          |
|                                           |                           |                                                   | JH/FCS 60-03          |
|                                           |                           |                                                   | JH/FCS 60-04          |
|                                           |                           | 2 Hours                                           | JH/FCS 120-01         |
|                                           |                           |                                                   | JH/FCS 120-02         |

## STRUCTURAL RATINGS

Structural rating for Reveal® and Pressed Reveal® Panel Sidings per ASTM E330:

|            |                                                                                      |
|------------|--------------------------------------------------------------------------------------|
| System No. | #1                                                                                   |
| Results:   | Ultimate Load: 127.4 psf                                                             |
| Details:   | <ul style="list-style-type: none"> <li>Framing: 20 GA Steel (nominal 2x4)</li> </ul> |

|                      |                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <ul style="list-style-type: none"> <li>• Stud spacing: 16 in. on center</li> <li>• Fastener Type: #8 x 1-5/8 in. long buglehead self-tapping screw, 0.397 in. head diameter, 0.121 in. shank diameter</li> <li>• Fastener spacing: 3 fasteners at 16" o.c</li> </ul>                                                                                                                    |
| <b>System No.</b>    | #2                                                                                                                                                                                                                                                                                                                                                                                      |
| Results:<br>Details: | Ultimate Load: 99.5 psf <ul style="list-style-type: none"> <li>• Framing: 20 GA Steel (nominal 2x4)</li> <li>• Stud spacing: 24 in. on center</li> <li>• Fastener Type: #8 x 1-5/8 in. long buglehead self-tapping screw, 0.397 in. head diameter, 0.121 in. shank diameter</li> <li>• Fastener spacing: 3 fasteners at 16" o.c</li> </ul>                                              |
| <b>System No.</b>    | #3                                                                                                                                                                                                                                                                                                                                                                                      |
| Results:<br>Details: | Ultimate Load: 128.5 psf <ul style="list-style-type: none"> <li>• Framing: 20 GA Steel (nominal 2x4)</li> <li>• Stud spacing: 16 in. on center</li> <li>• Fastener Type: #8 x 1-5/8 in. long buglehead self-tapping screw, 0.397 in. head diameter, 0.121 in. shank diameter</li> <li>• Fastener spacing: 4 fasteners at 12" o.c</li> </ul>                                             |
| <b>System No.</b>    | #4                                                                                                                                                                                                                                                                                                                                                                                      |
| Results:<br>Details: | Ultimate Load: 111.3 psf <ul style="list-style-type: none"> <li>• Framing: Wood nominal 2x4 SPF #2+BTR</li> <li>• Furring: Treated ¾ in. x 4 in.</li> <li>• Stud spacing: 16 in. on center</li> <li>• Fastener Type: #8 x 1-5/8 in. long buglehead self-tapping screw, 0.397 in. head diameter, 0.121 in. shank diameter</li> <li>• Fastener spacing: 3 fasteners at 16" o.c</li> </ul> |
| <b>System No.</b>    | #5                                                                                                                                                                                                                                                                                                                                                                                      |
| Results:<br>Details: | Ultimate Load: 110.1 psf <ul style="list-style-type: none"> <li>• Framing: Wood nominal 2x4 SPF #2+BTR</li> <li>• Furring: Treated ¾ in. x 4 in.</li> <li>• Stud spacing: 24 in. on center</li> <li>• Fastener Type: #8 x 1-5/8 in. long buglehead self-tapping screw, 0.397 in. head diameter, 0.121 in. shank diameter</li> <li>• Fastener spacing: 3 fasteners at 16" o.c</li> </ul> |
| <b>System No.</b>    | #6                                                                                                                                                                                                                                                                                                                                                                                      |
| Results:<br>Details: | Ultimate Load: 134.4 psf <ul style="list-style-type: none"> <li>• Framing: Wood nominal 2x4 SPF #2+BTR</li> <li>• Furring: Treated ¾ in. x 4 in.</li> <li>• Stud spacing: 16 in. on center</li> <li>• Fastener Type: #8 x 1-5/8 in. long buglehead self-tapping screw, 0.397 in.</li> </ul>                                                                                             |

|                      |                                                                                                                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | head diameter, 0.121 in. shank diameter<br>• Fastener spacing: 4 fasteners at 12" o.c                                                                                                                                                                                                                   |
| <b>System No.</b>    | #7                                                                                                                                                                                                                                                                                                      |
| Results:<br>Details: | Ultimate Load: 150 psf<br><br>• Framing: 20 GA Steel (nominal 2x4)<br>• Stud spacing: 24 in. on center<br>• Fastener Type: #8 x 1-1/2 in. long panhead screw, 0.476 in. head diameter, 0.132 in. shank diameter<br>• Fastener spacing: 4 fasteners at 12" o.c                                           |
| <b>System No.</b>    | #8                                                                                                                                                                                                                                                                                                      |
| Results:<br>Details: | Ultimate Load: 168.9 psf<br><br>• Framing: 20 GA Steel (nominal 2x4)<br>• Stud spacing: 16 in. on center<br>• Fastener Type: #10-12 x 1.2 in. long, 0.472 in. head dia. button head screw<br>• Fastener spacing: 3 fasteners at 16" o.c                                                                 |
| <b>System No.</b>    | #9                                                                                                                                                                                                                                                                                                      |
| Results:<br>Details: | Ultimate Load: 207.6 psf<br><br>• Framing: 20 GA Steel (nominal 2x4)<br>• Stud spacing: 16 in. on center<br>• Fastener Type: #10-12 x 1.2 in. long, 0.472 in. head dia. button head screw<br>• Fastener spacing: 4 fasteners at 12" o.c                                                                 |
| <b>System No.</b>    | #10                                                                                                                                                                                                                                                                                                     |
| Results:<br>Details: | Ultimate Load: 172.2 psf<br><br>• Framing: Wood nominal 2x4 SPF #2+BTR<br>• Furring: treated 3/4 in. x 4 in.<br>• Stud spacing: 24 in. on center<br>• Fastener Type: #8 x 1-1/2 in. long panhead screw, 0.476 in. head diameter, 0.132 in. shank diameter<br>• Fastener spacing: 4 fasteners at 12" o.c |
| <b>System No.</b>    | #11                                                                                                                                                                                                                                                                                                     |
| Results:<br>Details: | Ultimate Load: 127.6 psf<br><br>• Framing: Wood nominal 2x4 SPF #2+BTR<br>• Furring: 3/4 in. x 1-1/2 in. 6 ply plywood<br>• Stud spacing: 16 in. on center<br>• Fastener Type: #10-12 x 1.2 in. long, 0.472 in. head dia. button head screw<br>• Fastener spacing: 3 fasteners at 16" o.c               |
| <b>System No.</b>    | #12                                                                                                                                                                                                                                                                                                     |
| Results:<br>Details: | Ultimate Load: 206.2 psf<br><br>• Framing: Wood nominal 2x4 SPF #2+BTR                                                                                                                                                                                                                                  |

|                      |                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <ul style="list-style-type: none"> <li>Furring: 3/4 in. x 1-1/2 in. 6 ply plywood</li> <li>Stud spacing: 16 in. on center</li> <li>Fastener Type: #10-12 x 1.2 in. long, 0.472 in. head dia. button head screw</li> <li>Fastener spacing: 4 fasteners at 12" o.c</li> </ul>                                                                     |
| <b>System No.</b>    | #13                                                                                                                                                                                                                                                                                                                                             |
| Results:<br>Details: | Ultimate Load: 137.1 psf<br><br><ul style="list-style-type: none"> <li>Framing: Wood nominal 2x4 SPF #2+BTR</li> <li>Furring: 3/4 in. x 1-1/2 in. 6 ply plywood</li> <li>Stud spacing: 16 in. on center</li> <li>Fastener Type: #20 Torx Head Screw (SFS Intec TW-S-D12- 4.8 x 38)</li> <li>Fastener spacing: 2 fasteners at 24" o.c</li> </ul> |
| <b>System No.</b>    | #14                                                                                                                                                                                                                                                                                                                                             |
| Results:<br>Details: | Ultimate Load: 137.1 psf<br><br><ul style="list-style-type: none"> <li>Framing: Wood nominal 2x4 SPF #2+BTR</li> <li>Furring: 3/4 in. x 1-1/2 in. 6 ply plywood</li> <li>Stud spacing: 16 in. on center</li> <li>Fastener Type: #20 Torx Head Screw (SFS Intec TW-S-D12- 4.8 x 38)</li> <li>Fastener spacing: 2 fasteners at 24" o.c</li> </ul> |

Reveal® and Pressed Reveal® Siding comply with the requirements of AAMA 509 when tested with the following installation details:

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>System No.</b>    | #1                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Results:<br>Details: | Meets the requirements of AAMA 509<br><br><ul style="list-style-type: none"> <li>Framing: SPF wood framing, nominal 2 in. x 6 in.</li> <li>Furring: 3/4 in. thick x 4 in. wide pressure treated plywood</li> <li>Weather Barrier: One layer of Tyvek® HomeWrap® installed over framing, stapled at 24 in. on center</li> <li>Fastener Type: Countersunk #8 x 1-5/8 in. long buglehead screws</li> <li>Fastener Spacing: 16 in. at o.c</li> </ul> |

#### FLORIDA PRODUCT INFORMATION

|                                                 |               |
|-------------------------------------------------|---------------|
| <b>Product Evaluated</b>                        | <b>FL No.</b> |
| James Hardie Reveal® and Pressed Reveal® Siding | 19901         |

| Attribute    | Value                 |
|--------------|-----------------------|
| Code Reports | No                    |
| Criteria     | CAN / ULC S101 (2007) |
| Criteria     | CAN / ULC S114 (2005) |

|                      |                                                                                                                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Criteria             | CAN / ULC S102 (2010)                                                                                                                                                                                                                                                             |
| Criteria             | AAMA 509 (2009)                                                                                                                                                                                                                                                                   |
| Criteria             | ASTM E136 (2012)                                                                                                                                                                                                                                                                  |
| Criteria             | CAN / ULC S101 (2014)                                                                                                                                                                                                                                                             |
| Criteria             | ASTM E136 (2019)                                                                                                                                                                                                                                                                  |
| Criteria             | ASTM E119 (2018b)                                                                                                                                                                                                                                                                 |
| Criteria             | ASTM C1186 (2022) E1                                                                                                                                                                                                                                                              |
| Criteria             | ASTM E84 (2016)                                                                                                                                                                                                                                                                   |
| Criteria             | ASTM E136 (2016) Ed.16a                                                                                                                                                                                                                                                           |
| Criteria             | ASTM E119 (2016)                                                                                                                                                                                                                                                                  |
| Criteria             | ASTM C1186 (2008) (R2016)                                                                                                                                                                                                                                                         |
| Criteria             | ISO 8336:2017 Ed.3                                                                                                                                                                                                                                                                |
| Criteria             | ASTM E84 (2018b)                                                                                                                                                                                                                                                                  |
| Criteria             | ASTM E84 (2015)                                                                                                                                                                                                                                                                   |
| Criteria             | ASTM E119 (2015)                                                                                                                                                                                                                                                                  |
| Criteria             | ASTM E330 (2014) (R2021)                                                                                                                                                                                                                                                          |
| Criteria             | ASTM C1186-08 (R2012)                                                                                                                                                                                                                                                             |
| Criteria             | ISO 8336 (2009)                                                                                                                                                                                                                                                                   |
| Criteria             | EN 12467:2012 +A1                                                                                                                                                                                                                                                                 |
| CSI Code             | 07 46 00 Siding                                                                                                                                                                                                                                                                   |
| Intertek Services    | Certification                                                                                                                                                                                                                                                                     |
| Listed or Inspected  | LISTED                                                                                                                                                                                                                                                                            |
| Listing Section      | WALL ASSEMBLIES                                                                                                                                                                                                                                                                   |
| Report Number        | G101575558; G102753016; G100461561; G100844583; G101505709; G101414684; G10247028; G102477668; G102573914; G3180889; G103029590; G102848623; G103235027; G103112417, G102753016, G103942655, G103470658, G104368432, G104563615, , G104617462, G104966062; G105328747; G105616307 |
| Spec ID              | 39761                                                                                                                                                                                                                                                                             |
| Verification Testing | No                                                                                                                                                                                                                                                                                |

## DRAWING INDEX

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JH-FCS 120-02

JH-FCS 60-01

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JH-FCS 60-03

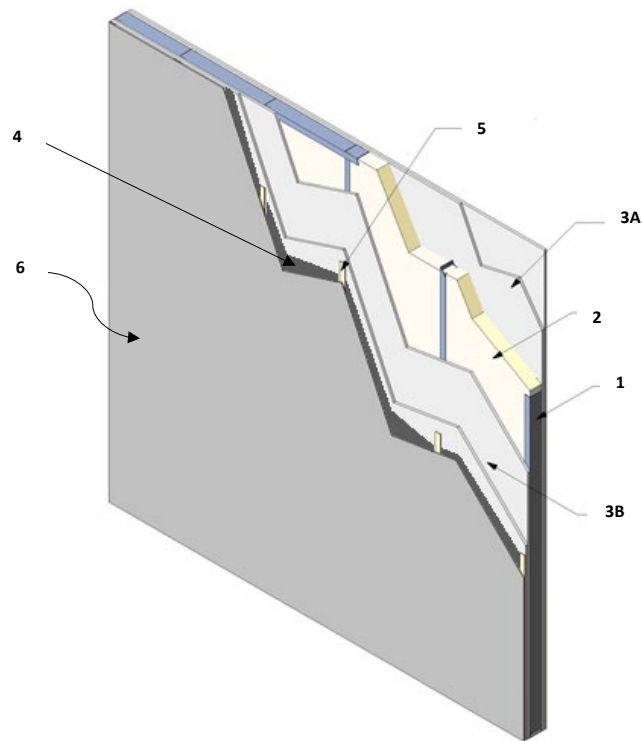
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# JH-FCS 120-01



Division 07 – Thermal and Moisture Protection  
07 46 00 Siding  
07 46 46 Fiber-Cement Siding

**James Hardie Building Products**  
**Design No. JH/FCS 120-01**  
**James Hardie Fiber Cement Siding**  
**Non-Symmetrical, Non-Load-Bearing Wall Assembly**  
**ASTM E119, CAN/ULC S101**  
**Fire Resistance Rating – 2 Hour (Rating applies to both sides)**



- 1. STEEL STUDS:** Min. 3-5/8 in. depth 20 GA (0.0359 in.) galvanized steel studs, spaced 16 in. on center (oc) max.
- 2. CAVITY INSULATION (Required):** Stud cavities filled with R12 un-faced fiberglass insulation.
- 3. GYPSUM WALLBOARD, SIDE A:** Two layers of 5/8 in. Type X gypsum board or 5/8 in. Densglass Gold board, oriented horizontally, and fastened to the steel studs using 1-5/8 in. DW screws

every 8 in. oc for the first layer and 2-1/4 in. DW screws every 8 in. oc for the second layer. All joints and screws covered with joint compound.

**GYPSUM WALLBOARD, SIDE B:** Two layers of 5/8 in. Type X gypsum board or 5/8 in. Densglass Gold board, oriented horizontally, and fastened to the steel studs using 1-5/8 in. DW screws every 8 in. oc for the first layer and 2-1/4 in. DW screws every 8 in. oc for the second layer. All joints and screws covered with joint compound.

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Division 07 – Thermal and Moisture Protection  
07 46 00 Siding  
07 46 46 Fiber-Cement Siding

- 4. WOOD SHEATHING (Optional): ADDITIONAL LAYER(S) (Optional):** Any one or two of the following components can be used in any order outward of the gypsum sheathing (Item 3B):

**COMPONENT 1 – EXTERIOR INSULATION:** The exterior insulation may be installed up to the max. thickness and density recognized in the certification document.

- ICC-ES AC377 certified open cell, spray-applied polyurethane insulation
- ASTM C578 certified extruded polystyrene (XPS) insulation
- ASTM C1289 certified polyiso insulation
- Mineral wool batt insulation

**COMPONENT 2 – WOOD STRUCTURAL PANEL SHEATHING:**

- Code prescribed wood structural panel sheathing

One layer of the wood structural panel sheathing may also be installed on the interior of Item 3B.

- 5. FURRING (Optional):**

- Min. 1-1/2 in. wide × 3/8 in. thick furring (Wood: Min. 0.42 SG; Metal: Corrosion Resistant min. 20 GA 33 ksi metal hat channel, z-girt or u-bar), or
- Min. 4.574 in. wide × 3/4 in. thick James Hardie Horizontal Steel Furring installed per manufacturer's installation instructions (min. 18 GA 33 ksi metal)

- 6. CERTIFIED MANUFACTURER:** James Hardie Building Products Inc.

**CERTIFIED PRODUCT:** HardiePlank® smooth and textured Lap Siding (HZ5 and HZ10), CemPlank® Lap Siding, Prevail® Lap Siding, HardieShingle® smooth and textured (HZ5 and HZ10), Artisan® Shingle, HardiePanel® Vertical Siding smooth and textured (HZ5 and HZ10), CemPanel® Vertical Siding, Prevail™ Panel Siding, Artisan® Lap Siding, Artisan® V-Groove Siding, Artisan® Bevel Channel, Artisan® Square Channel, Artisan® Shiplap Lap Siding, Reveal®, Hardie® Architectural Panels (textured/nontextured, HZ5/HZ10), and Pressed Reveal® sidings.

**FIBER-CEMENT EXTERIOR SIDING:** HardiePlank® smooth and textured Lap Siding (HZ5 and HZ10), CemPlank® Lap Siding, Prevail® Lap Siding, HardieShingle® smooth and textured (HZ5 and HZ10), Artisan® Shingle, HardiePanel® Vertical Siding smooth and textured (HZ5 and HZ10), CemPanel® Vertical Siding, Prevail™ Panel Siding, Artisan® Lap Siding, Artisan® V-Groove Siding, Artisan® Bevel Channel, Artisan® Square Channel, Artisan® Shiplap Lap Siding, Reveal®, Hardie® Architectural Panels (textured/ nontextured, HZ5/HZ10), or Pressed Reveal® sidings, installed in accordance with manufacturer's installation instructions.

Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.

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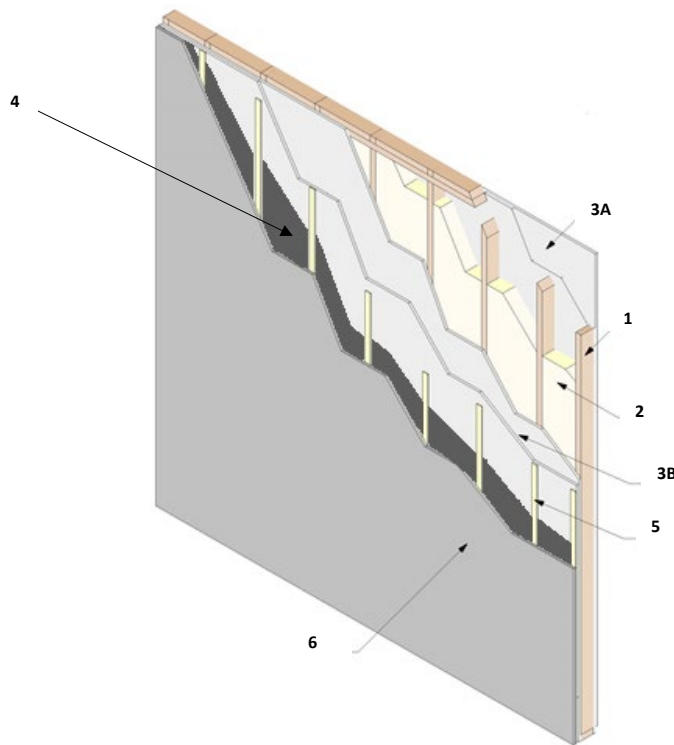
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## JH-FCS 120-02



Division 07 – Thermal and Moisture Protection  
07 46 00 Siding  
07 46 46 Fiber-Cement Siding

**James Hardie Building Products**  
**Design No. JH/FCS 120-02**  
**James Hardie Fiber Cement Siding**  
**Non-Symmetrical, Load-Bearing Wall Assembly – Full Design Load**  
**ASTM E119, CAN/ULC S101**  
**Fire Resistance Rating – 2 Hour (Rating applies to both sides)**



1. **WOOD STUDS:** Nominal 2 in. × 4 in. solid sawn wood studs located 16 in. on center (oc), with top and bottom plates using 3 in. framing nails.
2. **INSULATION (Required):** Stud cavities filled with R12 un-faced fiberglass insulation.
3. **GYPSUM WALLBOARD:** Two layers of 5/8 in. Type X gypsum board or 5/8 in. Densglass Gold board, oriented horizontally, and fastened to the steel studs using 1-5/8 in. DW screws every

8 in. oc for the first layer and 2-1/4 in. DW screws every 8 in. oc for the second layer. All joints and screws covered with joint compound.

**GYPSUM WALLBOARD, SIDE B:** Two layers of 5/8 in. Type X gypsum board or 5/8 in. Densglass Gold board, oriented horizontally, and fastened to the steel studs using 1-5/8 in. DW screws every 8 in. oc for the first layer and 2-1/4 in. DW screws every 8 in. oc for the second layer. All joints and screws covered with joint compound.

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**JH-FCS 120-02 (2 OF 2)**

Division 07 – Thermal and Moisture Protection  
07 46 00 Siding  
07 46 46 Fiber-Cement Siding

- 4. WOOD SHEATHING (Optional): ADDITIONAL LAYER(S) (Optional):** Any one or two of the following components can be used in any order outward of the gypsum sheathing (Item 3B):

**COMPONENT 1 – EXTERIOR INSULATION:** The exterior insulation may be installed up to the max. thickness and density recognized in the certification document.

- ICC-ES AC377 certified open cell, spray-applied polyurethane insulation
- ASTM C578 certified extruded polystyrene (XPS) insulation
- ASTM C1289 certified polyiso insulation
- Mineral wool batt insulation

**COMPONENT 2 – WOOD STRUCTURAL PANEL SHEATHING:**

- Code prescribed wood structural panel sheathing

One layer of the wood structural panel sheathing may also be installed on the interior of Item 3B.

- 5. FURRING (Optional):**

- Min. 1-1/2 in. wide × 3/8 in. thick furring (Wood: Min. 0.42SG; Metal: Corrosion Resistant min. 20 GA 33 ksi metal hat channel, z-girt or u-bar), or
- Min. 4.574 in. wide × 3/4 in. thick James Hardie Horizontal Steel Furring installed per manufacturer's installation instructions (min. 18 GA 33 ksi metal)

- 6. CERTIFIED MANUFACTURER:** James Hardie Building Products Inc.

**CERTIFIED PRODUCT:** HardiePlank® smooth and textured Lap Siding (HZ5 and HZ10), CemPlank® Lap Siding, Prevail® Lap Siding, HardieShingle® smooth and textured (HZ5 and HZ10), Artisan® Shingle, HardiePanel® Vertical Siding smooth and textured (HZ5 and HZ10), CemPanel® Vertical Siding, Prevail™ Panel Siding, Artisan® Lap Siding, Artisan® V-Groove Siding, Artisan® Bevel Channel, Artisan® Square Channel, Artisan® Shiplap Lap Siding, Reveal®, Hardie® Architectural Panels (textured/nontextured, HZ5/HZ10), and Pressed Reveal® sidings.

**FIBER-CEMENT EXTERIOR SIDING:** HardiePlank® smooth and textured Lap Siding (HZ5 and HZ10), CemPlank® Lap Siding, Prevail® Lap Siding, HardieShingle® smooth and textured (HZ5 and HZ10), Artisan® Shingle, HardiePanel® Vertical Siding smooth and textured (HZ5 and HZ10), CemPanel® Vertical Siding, Prevail™ Panel Siding, Artisan® Lap Siding, Artisan® V-Groove Siding, Artisan® Bevel Channel, Artisan® Square Channel, Artisan® Shiplap Lap Siding, Reveal®, Hardie® Architectural Panels (textured/nontextured, HZ5/HZ10), or Pressed Reveal® sidings, installed in accordance with manufacturer's installation instructions.

Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.

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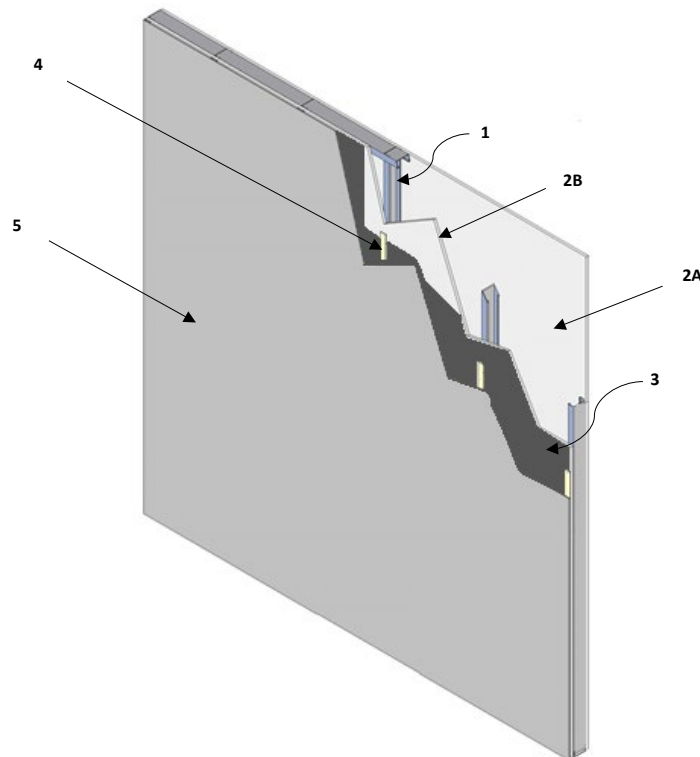
## JH-FCS 60-01



Division 07 – Thermal and Moisture Protection  
07 46 00 Siding  
07 46 46 Fiber-Cement Siding

**James Hardie Building Products**  
**JH/FCS 60-01**  
**James Hardie Fiber Cement Siding**  
**ASTM E119, CAN/ULC S101**

**Non-Symmetrical, 1 Hour Non-Load-Bearing Wall Assembly (Rating applies to both sides)**



**1. STEEL STUDS:** Min. 3-5/8 in. depth 20 GA (0.0359 in.) galvanized steel studs, spaced 24 in. on center (oc) max.

**2. GYPSUM WALLBOARD, SIDE A:** 5/8 in. Type X gypsum wallboard, oriented vertically and fastened with 1-1/4 in. Type S drywall screws, spaced 8 in. oc at board edges and 12 in. oc in field areas of the board.

**GYPSUM SHEATHING, SIDE B:** 1/2 in. Type X or 5/8 in. Type X gypsum sheathing, oriented vertically with edge joints staggered from those of Side A, fastened with 1-1/4 in. Type S drywall screws spaced 24 in. oc.

**3. ADDITIONAL LAYER(S) (Optional):** Any one or two of the following components can be used in any order outward of the gypsum sheathing (Item 2B):

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Division 07 – Thermal and Moisture Protection  
07 46 00 Siding  
07 46 46 Fiber-Cement Siding

**COMPONENT 1 – EXTERIOR INSULATION:** The exterior insulation may be installed up to the max. thickness and density recognized in the certification document.

- ICC-ES AC377 certified open cell, spray-applied polyurethane insulation
- ASTM C578 certified extruded polystyrene (XPS) insulation
- ASTM C1289 certified polyiso insulation
- Mineral wool batt insulation

**COMPONENT 2 – WOOD STRUCTURAL PANEL SHEATHING:**

- Code prescribed wood structural panel sheathing

One layer of the wood structural panel sheathing may also be installed interior of Item 3B.

**4. FURRING (Optional):**

- Min. 1-1/2 in. wide × 3/8 in. thick furring (Wood: Min. 0.42 s.g.; Metal: Corrosion Resistant min. 20 GA 33 ksi metal hat channel, z-girt or u-bar), or

- Min. 4.574 in. wide × 3/4 in. thick James Hardie Horizontal Steel Furring installed per manufacturer's installation instructions (min. 18 GA 33 ksi metal)

**5. CERTIFIED MANUFACTURER:** James Hardie Building Products Inc.

**CERTIFIED PRODUCTS:** HardiePlank® smooth and textured Lap Siding (HZ5 and HZ10), CemPlank® Lap Siding, Prevail® Lap Siding, HardieShingle® smooth and textured (HZ5 and HZ10), Artisan® Shingle, HardiePanel® Vertical Siding smooth and textured (HZ5 and HZ10), CemPanel® Vertical Siding, Prevail™ Panel Siding, Artisan® Lap Siding, Artisan® V-Groove Siding, Artisan® Bevel Channel, Artisan® Square Channel, Artisan® Shiplap Lap Siding, Reveal®, Hardie® Architectural Panels (textured/nontextured, HZ5/HZ10), or Pressed Reveal® sidings, installed in accordance with manufacturer's installation instructions.

Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.

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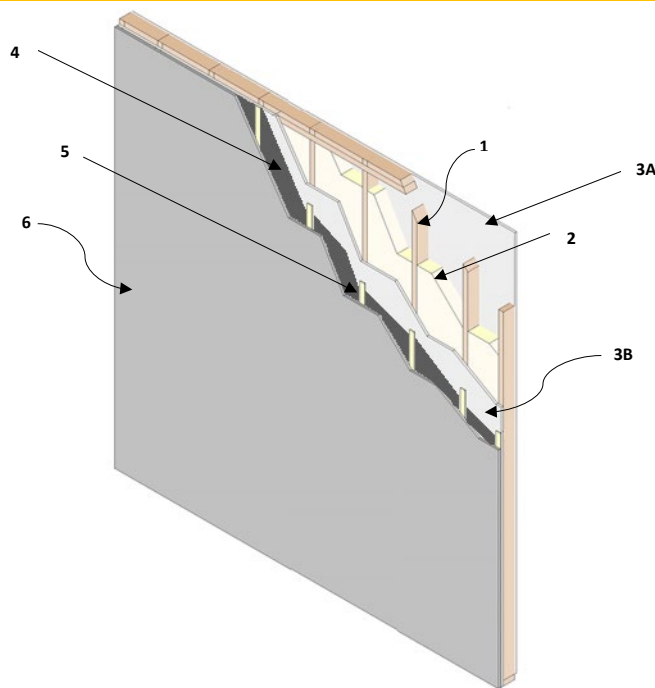
SFT-BC-OP-191

## JH-FCS 60-02



Division 07 – Thermal and Moisture Protection  
07 46 00 Siding  
07 46 46 Fiber-Cement Siding

**James Hardie Building Products**  
**JH/FCS 60-02**  
**James Hardie Fiber Cement Siding**  
**ASTM E119, CAN/ULC S101**  
**Non-Symmetrical, 1 Hour Load-Bearing Wall Assembly – Full Design Load**  
**(Rating applies to both sides)**



- 1. WOOD STUDS:** Nominal 2 in. × 4 in. solid sawn wood studs located 16 in. on center (oc), with two top plates and a single bottom plate.
- 2. CAVITY INSULATION (Optional):** Glass fiber batt insulation, conforming to CSA A101; Glass fiber insulation min. 0.6 kg/m<sup>3</sup>.
- 3. GYPSUM WALLBOARD, SIDE A:** 5/8 in. Type X gypsum wallboard, oriented vertically and fastened with 1-3/4 in. cup-head gypsum nails, spaced 7 in. oc at board edges and in field areas,

or 1-1/2 in. Type S drywall screws, spaced 8 in. oc at board edges and in field areas of boards.

**GYPSUM SHEATHING, SIDE B:** 5/8 in. Type X gypsum sheathing fastened with 1-3/4 in. long roofing nails spaced 7 in. oc. Sheathing edge joints shall be staggered from those on opposite side of the wall.

- 4. ADDITIONAL LAYER(S) (Optional):** Any one or two of the following components can be used in any order outward of the gypsum sheathing (Item 3B):

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**JH-FCS 60-02 (2 OF 2)**

Division 07 – Thermal and Moisture Protection  
07 46 00 Siding  
07 46 46 Fiber-Cement Siding

**COMPONENT 1 – EXTERIOR INSULATION:** The exterior insulation may be installed up to the max. thickness and density recognized in the certification document.

- ICC-ES AC377 certified open cell, spray-applied polyurethane insulation
- ASTM C578 certified extruded polystyrene (XPS) insulation
- ASTM C1289 certified polyiso insulation
- Mineral wool batt insulation

**COMPONENT 2 – WOOD STRUCTURAL PANEL SHEATHING:**

- Code prescribed wood structural panel sheathing

One layer of the wood structural panel sheathing may also be installed on the interior of Item 3B.

**5. FURRING (Optional):**

- Min. 1-1/2 in. wide × 3/8 in. thick furring (Wood: Min. 0.42 s.g.; Metal: Corrosion Resistant min. 20 GA 33 ksi metal hat channel, z-girt or u-bar), or
- Min. 4.574 in. wide × 3/4 in. thick James Hardie Horizontal Steel Furring installed per manufacturer's installation instructions (min. 18 GA 33 ksi metal)

**6. CERTIFIED MANUFACTURER:** James Hardie Building Products Inc.

**CERTIFIED PRODUCT:** HardiePlank® smooth and textured Lap Siding (HZ5 and HZ10), CemPlank® Lap Siding, Prevail® Lap Siding, HardieShingle® smooth and textured (HZ5 and HZ10), Artisan® Shingle, HardiePanel® Vertical Siding smooth and textured (HZ5 and HZ10), CemPanel® Vertical Siding, Prevail™ Panel Siding, Artisan® Lap Siding, Artisan® V-Groove Siding, Artisan® Bevel Channel, Artisan® Square Channel, Artisan® Shiplap Lap Siding, Reveal®, Hardie® Architectural Panels (textured/nontextured, HZ5/HZ10), and Pressed Reveal® sidings.

**FIBRE-CEMENT EXTERIOR SIDING:** HardiePlank® smooth and textured Lap Siding (HZ5 and HZ10), CemPlank® Lap Siding, Prevail® Lap Siding, HardieShingle® smooth and textured (HZ5 and HZ10), Artisan® Shingle, HardiePanel® Vertical Siding smooth and textured (HZ5 and HZ10), CemPanel® Vertical Siding, Prevail™ Panel Siding, Artisan® Lap Siding, Artisan® V-Groove Siding, Artisan® Bevel Channel, Artisan® Square Channel, Artisan® Shiplap Lap Siding, Reveal®, Hardie® Architectural Panels (textured/nontextured, HZ5/HZ10), or Pressed Reveal® sidings, installed in accordance with manufacturer's installation instructions.

Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.

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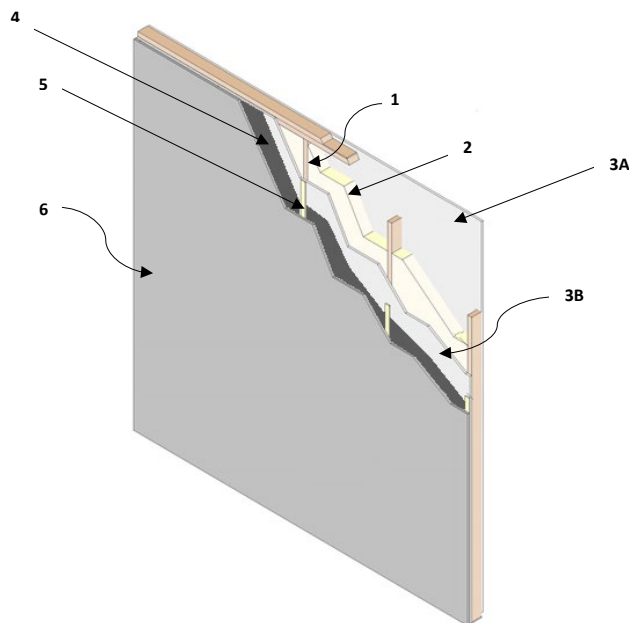
SFT-BC-OP-191

## JH-FCS 60-03



Division 07 – Thermal and Moisture Protection  
07 46 00 Siding  
07 46 46 Fiber-Cement Siding

**James Hardie Building Products**  
**Design No. JH/FCS 60-03**  
**James Hardie Fiber Cement Siding**  
**Non-Symmetrical, Load-Bearing Wall Assembly – Full Design Load**  
**ASTM E119, CAN/ULC S101**  
**Fire Resistance Rating – 1 Hour (Rating applies to both sides)**



- 1. WOOD STUDS:** Nominal 2 in. × 4 in. solid sawn wood studs located 24 in. on center (oc), with two top plates and a single bottom plate.
- 2. CAVITY INSULATION (Required):** Glass fiber batt insulation, conforming to CSA A101; Glass fiber insulation min. 0.6 kg/m<sup>3</sup>.
- 3. GYPSUM WALLBOARD, SIDE A:** 5/8 in. Type X gypsum wallboard, oriented vertically and fastened with 1-3/4 in. cup-head gypsum nails, spaced 7 in. oc at board edges and in field areas,

or 1-1/2 in. Type S drywall screws, spaced 8 in. oc at board edges and in field areas of boards.

**GYPSUM SHEATHING, SIDE B:** 5/8 in. Type X gypsum sheathing fastened with 1-3/4 in. long roofing nails spaced 7 in. oc. Sheathing edge joints shall be staggered from those on opposite side of the wall.

- 4. ADDITIONAL LAYER(S) (Optional):** Any one or two of the following components can be used in any order outward of the gypsum sheathing (Item 3B):

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**JH-FCS 60-03 (2 OF 2)**

Division 07 – Thermal and Moisture Protection  
07 46 00 Siding  
07 46 46 Fiber-Cement Siding

**COMPONENT 1 – EXTERIOR INSULATION:** The exterior insulation may be installed up to the max. thickness and density recognized in the certification document.

- ICC-ES AC377 certified open cell, spray-applied polyurethane insulation
- ASTM C578 certified extruded polystyrene (XPS) insulation
- ASTM C1289 certified polyiso insulation
- Mineral wool batt insulation

**COMPONENT 2 – WOOD STRUCTURAL PANEL SHEATHING:**

- Code prescribed wood structural panel sheathing

One layer of the wood structural panel sheathing may also be installed on the interior of Item 3B.

**5. FURRING (Optional):**

- Min. 1-1/2 in. wide × 3/8 in. thick furring (Wood: Min. 0.42 s.g.; Metal: Corrosion Resistant min. 20 GA 33 ksi metal hat channel, z-girt or u-bar), or
- Min. 4.574 in. wide × 3/4 in. thick James Hardie Horizontal Steel Furring installed per manufacturer's installation instructions (min. 18 GA 33 ksi metal)

**6. CERTIFIED MANUFACTURER:** James Hardie Building Products Inc.

**CERTIFIED PRODUCT:** HardiePlank® smooth and textured Lap Siding (HZ5 and HZ10), CemPlank® Lap Siding, Prevail® Lap Siding, HardieShingle® smooth and textured (HZ5 and HZ10), Artisan® Shingle, HardiePanel® Vertical Siding smooth and textured (HZ5 and HZ10), CemPanel® Vertical Siding, Prevail™ Panel Siding, Artisan® Lap Siding, Artisan® V-Groove Siding, Artisan® Bevel Channel, Artisan® Square Channel, Artisan® Shiplap Lap Siding, Reveal®, Hardie® Architectural Panels (textured/nontextured, HZ5/HZ10), and Pressed Reveal® sidings.

**FIBRE-CEMENT EXTERIOR SIDING:** HardiePlank® smooth and textured Lap Siding (HZ5 and HZ10), CemPlank® Lap Siding, Prevail® Lap Siding, HardieShingle® smooth and textured (HZ5 and HZ10), Artisan® Shingle, HardiePanel® Vertical Siding smooth and textured (HZ5 and HZ10), CemPanel® Vertical Siding, Prevail™ Panel Siding, Artisan® Lap Siding, Artisan® V-Groove Siding, Artisan® Bevel Channel, Artisan® Square Channel, Artisan® Shiplap Lap Siding, Reveal®, Hardie® Architectural Panels (textured/nontextured, HZ5/HZ10), or Pressed Reveal® sidings, installed in accordance with manufacturer's installation instructions.

Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.

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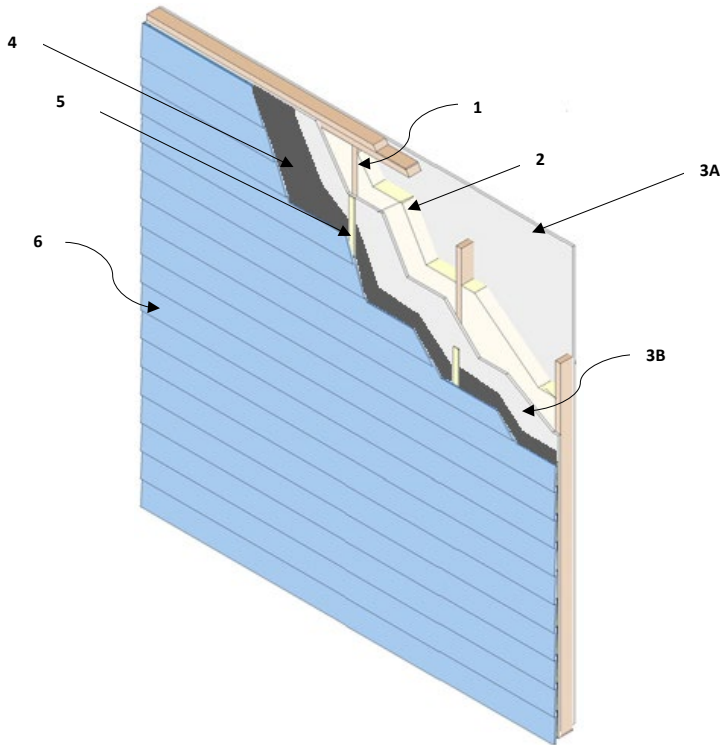
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JH-FCS 60-04



Division 07 – Thermal and Moisture Protection  
07 46 00 Siding  
07 46 46 Fiber-Cement Siding

James Hardie Building Products  
JH/FCS 60-04  
James Hardie Fiber Cement Siding  
ASTM E119, CAN/ULC S101  
Non-Symmetrical, 1 Hour Load-Bearing Wall Assembly  
Full Design Load per ASTM E119, 92% Design Load per CAN/ULC S101  
(Rating applies to both sides)



- 1. WOOD STUDS:** Nominal 2 in. × 4 in. solid sawn wood studs located 24 in. on center (oc), with two top plates and a single bottom plate.

**2. CAVITY INSULATION (Optional):** R13 glass fiber batt insulation.
- 3. GYPSUM WALLBOARD, SIDE A:** 5/8 in. Type X gypsum wallboard, oriented vertically and fastened with 1-3/4 in. cup-head gypsum nails, spaced 7 in. oc at board edges and in field areas, or 1-1/2 in. Type S drywall screws, spaced 8 in. oc at board edges and in field areas of boards.

**JH-FCS 60-04 (2 OF 2)**

Division 07 – Thermal and Moisture Protection  
07 46 00 Siding  
07 46 46 Fiber-Cement Siding

**GYPSUM SHEATHING, SIDE B:** 1/2 in. Type X or 5/8 in. Type X gypsum sheathing fastened with 1-3/4 in. long roofing nails spaced 7 in. oc. Sheathing edge joints shall be staggered from those on opposite sides of the wall.

4. **ADDITIONAL LAYER(S) (Optional):** Any one or two of the following components can be used in any order outward of the gypsum sheathing (Item 3B):

**COMPONENT 1 – EXTERIOR INSULATION:** The exterior insulation may be installed up to the max. thickness and density recognized in the certification document.

- ICC-ES AC377 certified open cell, spray-applied polyurethane insulation
- ASTM C578 certified extruded polystyrene (XPS) insulation
- ASTM C1289 certified polyiso insulation
- Mineral wool batt insulation

**COMPONENT 2 – WOOD STRUCTURAL PANEL SHEATHING:**

- Code prescribed wood structural panel sheathing

One layer of the Wood Structural Panel Sheathing may also be installed on the interior of Item 3B.

5. **FURRING (Optional):**

- Min. 1-1/2 in. wide × 3/8 in. thick furring (Wood: Min. 0.42 s.g.; Metal: Corrosion Resistant min. 20 GA 33 ksi metal hat channel, z-girt or u-bar), or

- Min. 4.574 in. wide × 3/4 in. thick James Hardie Horizontal Steel Furring installed per manufacturer's installation instructions (min. 18 GA 33 ksi metal)

6. **CERTIFIED MANUFACTURER:** James Hardie Building Products Inc.

**CERTIFIED PRODUCT:** HardiePlank® smooth and textured Lap Siding (HZ5 and HZ10), CemPlank® Lap Siding, Prevail® Lap Siding, HardieShingle® smooth and textured (HZ5 and HZ10), Artisan® Shingle, HardiePanel® Vertical Siding smooth and textured (HZ5 and HZ10), CemPanel® Vertical Siding, Prevail™ Panel Siding, Artisan® Lap Siding, Artisan® V-Groove Siding, Artisan® Bevel Channel, Artisan® Square Channel, Artisan® Shiplap Lap Siding, Reveal®, Hardie® Architectural Panels (textured/nontextured, HZ5/HZ10), and Pressed Reveal® sidings.

**FIBRE CEMENT EXTERIOR SIDING:** HardiePlank® smooth and textured Lap Siding (HZ5 and HZ10), CemPlank® Lap Siding, Prevail® Lap Siding, HardieShingle® smooth and textured (HZ5 and HZ10), Artisan® Shingle, HardiePanel® Vertical Siding smooth and textured (HZ5 and HZ10), CemPanel® Vertical Siding, Prevail™ Panel Siding, Artisan® Lap Siding, Artisan® V-Groove Siding, Artisan® Bevel Channel, Artisan® Square Channel, Artisan® Shiplap Lap Siding, Reveal®, Hardie® Architectural Panels (textured/nontextured, HZ5/HZ10), or Pressed Reveal® sidings, installed in accordance with manufacturer's installation instructions.

Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.

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