ThermoryUSA

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select of deselect HIDDEN TEXT.

This guide specification section has been prepared by ThermoryUSA for use in the preparation of a project specification section covering Thermory thermally modified wood for use as an exterior cladding for walls and soffits.

ThermoryUSA also provides guide specifications for the following Thermory thermally modified wood products:

Section 06 15 00 – Thermally Modified Wood Decking.

Section 06 20 00 – Thermally Modified Finish Carpentry.

Section 09 78 31 – Thermally Modified Wood Wall and Ceiling Cladding.

The following should be noted in using this specification:

Hypertext links to manufacturer websites are included after manufacturer names to assist in product selection and further research. Hypertext links are shown in blue text, e.g.:

www.acme.com

Optional text requiring a selection by the user is enclosed within brackets and shown in red text, e.g.: AColor: [Red.] [Black.]"

Items requiring user input are enclosed within brackets and shown in red text, e.g.: "Section [\_\_ \_\_ \_\_ - \_\_\_\_\_\_\_\_]."

Optional paragraphs are separated by an "OR" statement shown in red text, e.g.:

\*\*\*\* OR \*\*\*\*

For assistance in the use of products in this section, contact Thermory USA by calling 585-250-4074 or visit their website at [www.thermoryusa.com.](http://www.thermoryusa.com/)

**SECTION 07 46 23 – THERMALLY MODIFIED WOOD CLADDING**

1. **GENERAL**
   1. SUBMITTALS
      1. Action Submittals:
         1. Product Data: Manufacturer’s descriptive data and product attributes for wood materials.
         2. Samples: [Selection samples.] [Verification samples.]
   2. QUALITY ASSURANCE
      1. Installer Qualifications: Firm specializing in work of this Section, with minimum [2] [\_\_] years’ experience.
      2. Mockup: Minimum [\_\_ x \_\_] feet. Approved mockup [may] [may not] remain as part of the Work.
2. **PRODUCTS**
   1. MANUFACTURERS
      1. Contract Documents are based on products by ThermoryUSA, [www.thermoryusa.com](http://www.thermoryusa.com/).
      2. Substitutions: [Refer to Division 01.] [Not permitted.]
   2. MATERIALS

Retain the following for 1 x 4 inch White Ash tongue-and-groove cladding installed with screws.

* + 1. Thermally Modified Wood [Wall] [and] [Ceiling] Cladding:
       1. Species: White Ash.
       2. Nominal size: 1 x 4 inches.
       3. Actual size: 0.79 x 3.7 inches.
       4. Coverage: 3.5 inches.
       5. Profile: Tongue and groove edges, joint end matched (JEM).
       6. Color: Exotic Brown.
       7. Surface texture: Smooth.
       8. Finish: [Unoiled.] [Pre-oiled with Cutek Extreme.]

Retain the following when a Class B fire hazard classification is required. Class A rating is available at additional cost.

* + - 1. Fire hazard classification: Class B flame spread/smoke developed rating, tested to ASTM E84.
      2. Installation type: Blind fasten.
      3. Installation method: Screws.

\*\*\*\* OR \*\*\*\*

Retain the following for 1 x 5 inch White Ash tongue-and-groove cladding installed with screws.

* + 1. Thermally Modified Wood [Wall] [and] [Ceiling] Cladding:
       1. Species: White Ash.
       2. Nominal size: 1 x 5 inches.
       3. Actual size: 0.79 x 4.4 inches.
       4. Coverage: 4.2 inches.
       5. Profile: Tongue and groove edges, joint end matched (JEM).
       6. Color: Exotic Brown.
       7. Surface texture: Smooth.
       8. Finish: [Unoiled.] [Pre-oiled with Cutek Extreme].

Retain the following when a Class B fire hazard classification is required. Class A rating is available at additional cost.

* + - 1. Fire hazard classification: Class B flame spread/smoke developed rating, tested to ASTM E84.
      2. Installation type: Blind fasten.
      3. Installation method: Screws.

Retain the following for 1 x 6 inch White Ash cladding installed with PaCS press-and-click system.

* + 1. Thermally Modified Wood [Wall] [and] [Ceiling] Cladding:
       1. Species: White Ash.
       2. Nominal size: 1 x 6 inches.
       3. Actual size: 0.79 x 6.1 inches.
       4. Coverage: 5.9 inches.
       5. Profile: C23J Shiplap, joint end matched (JEM), back side grooved for PaCS press-and-click system.
       6. Color: Exotic Brown.
       7. Surface texture: Smooth.
       8. Finish: [Unoiled.] [Pre-oiled with Cutek Extreme.]

Retain the following when a Class B fire hazard classification is required. Class A rating is available at additional cost.

* + - 1. Fire hazard classification: Class B flame spread/smoke developed rating, tested to ASTM E84.
      2. Installation type: Blind fasten.
      3. Installation method: Screws.

\*\*\* OR \*\*\*

Retain the following for 1 x 6 inch White Ash cladding installed with C20 shadow gap profile.

* + 1. Thermally Modified Wood [Wall] [and] [Ceiling] Cladding:
       1. Species: White Ash.
       2. Nominal size: 1 x 6 inches.
       3. Actual size: 0.79 x 5.9 inches.
       4. Coverage: 5.6 inches.
       5. Profile: C23J shadow gap, joint end matched (JEM).
       6. Color: Exotic Brown.
       7. Surface texture: Smooth.
       8. Finish: [Unoiled.] [Pre-oiled with Cutek Extreme.]

Retain the following when a Class B fire hazard classification is required. Class A rating is available at additional cost.

* + - 1. Fire hazard classification: Class B flame spread/smoke developed rating, tested to ASTM E84.
      2. Installation type: Visible.
      3. Installation method: Screws.

\*\*\* OR \*\*\*

Retain the following for 1 x 6 inch White Ash cladding installed with PaCS press-and-click system.

* + 1. Thermally Modified Wood [Wall] [and] [Ceiling] Cladding:
       1. Species: White Ash.
       2. Nominal size: 1 x 6 inches.
       3. Actual size: 0.79 x 5.9 inches.
       4. Coverage: 5.6 inches.
       5. Profile: Shiplap, joint end matched (JEM), back side grooved for PaCS press-and-click system.
       6. Color: Exotic Brown.
       7. Surface texture: Smooth.
       8. Finish: [Unoiled.] [Pre-oiled with Cutek Extreme.]

Retain the following when a Class B fire hazard classification is required. Class A rating is available at additional cost.

* + - 1. Fire hazard classification: Class B flame spread/smoke developed rating, tested to ASTM E84.
      2. Installation type: Hidden.
      3. Installation method: PaCS press-and-click system.

\*\*\* OR \*\*\*

Retain the following for 1 x 6 inch Red Oak standard tongue-and-groove cladding installed with screws.

* + 1. Thermally Modified Wood [Wall] [and] [Ceiling] Cladding:
       1. Species: Red Oak Standard.
       2. Nominal size: 1 x 6 inches.
       3. Actual size: 0.79 x 5.2 inches.
       4. Coverage: 4.9 inches.
       5. Profile: C57 Tongue and groove edges, joint end matched (JEM).
       6. Color: Exotic Brown.
       7. Surface texture: Smooth.
       8. Finish: [Unoiled.] [Pre-oiled with Cutek Extreme.]

Retain the following when a Class B fire hazard classification is required.

* + - 1. Fire hazard classification: Class B flame spread/smoke developed rating, tested to ASTM E84.
      2. Installation type: Blind fasten.
      3. Installation method: Screws.

\*\*\* OR \*\*\*

Retain the following for 1 x 6 inch Red Oak Max tongue-and-groove cladding installed with screws.

* + 1. Thermally Modified Wood [Wall] [and] [Ceiling] Cladding:
       1. Species: Red Oak Max.
       2. Nominal size: 1 x 6 inches.
       3. Actual size: 0.79 x 5.9 inches.
       4. Coverage: 5.5 inches.
       5. Profile: C57 Tongue and groove edges, joint end matched (JEM).
       6. Color: Exotic Brown.
       7. Surface texture: Smooth.
       8. Finish: [Unoiled.] [Pre-oiled with Cutek Extreme.]

Retain the following when a Class B fire hazard classification is required.

* + - 1. Fire hazard classification: Class B flame spread/smoke developed rating, tested to ASTM E84.
      2. Installation type: Blind fasten.
      3. Installation method: Screws.

Retain the following for 1 x 6 inch Scott Pine (knotty) C19 tongue and groove cladding installed with screws.

* + 1. Thermally Modified Wood [Wall] [and] [Ceiling] Cladding:
       1. Species: Scotts Pine, Knotty.
       2. Nominal size: 1 x 6 inches.
       3. Actual size: 0.79 x 5.5 inches.
       4. Coverage: 5.2 inches.
       5. Profile: C19 tongue and groove edges (shiplap), joint end matched (JEM).
       6. Color: Golden Brown
       7. Surface texture: Reversible; smooth one side, rough other side.
       8. Finish: [Unoiled.] [Pre-oiled with Cutek Extreme.]
       9. Installation type: Visible.
       10. Installation method: Screws.

\*\*\* OR \*\*\*

Retain the following for 1 x 8 inch Kodiak Spruce cladding installed with screws.

* + 1. Thermally Modified Wood [Wall] [and] [Ceiling] Cladding
       1. Species: Kodiak Spruce.
       2. Nominal size: 1 x 8 inches.
       3. Actual size: 0.79 x 7.3 inches.
       4. Coverage: 6.9 inches.
       5. Profile: C15 tongue and groove edges, joint end matched (JEM).
       6. Color: Golden Brown.
       7. Surface texture: Wire brushed.
       8. Finish: [Unoiled.] [Pre-oiled with Cutek Extreme.
       9. Installation type: Blind fasten.
       10. Installation method: Screws.

\*\*\* OR \*\*\*

Retain the following for Ignite Spruce cladding installed with screws.

* + 1. Thermally Modified Wood Cladding:
       1. Species: Ignite Spruce.
       2. Nominal size: 1 x 6 inches.
       3. Actual size: 0.79 x 5.5 inches.
       4. Coverage: 5.2 inches.
       5. Profile: C24 tongue and groove edges, joint end matched (JEM).
       6. Color: Black.
       7. Surface texture: [Wire brushed.] [Dragon Scale embossed.]
       8. Finish: Painted.
       9. Installation type: Visible.
       10. Installation method: Black finish stainless steel screws.

Retain the following for Ignite Spruce cladding installed with screws.

* + 1. Thermally Modified Wood Cladding:
       1. Species: Ignite Spruce.
       2. Nominal size: 1 x 8 inches.
       3. Actual size: 0.79 x 7.3 inches.
       4. Coverage: 6.9 inches.
       5. Profile: C24 tongue and groove edges, joint end matched (JEM).
       6. Color: Black.
       7. Surface texture: [Wire brushed.] [Dragon Scale embossed.]
       8. Finish: Painted.
       9. Installation type: Visible.
       10. Installation method: Black finish stainless steel screws.

\*\*\*\* OR \*\*\*\*

Retain the following for 1 x 6 inch Radiata Pine installed with screws.

* + 1. Thermally Modified Wood:
       1. Species: Clear Pine, Radiata Pine.
       2. Nominal size: 1 x 6 inches.
       3. Actual size: 0.79 x 5.5 inches.
       4. Coverage: 5.2 inches.
       5. Profile: C19 tongue and groove edges (shiplap), joint end matched (JEM).
       6. Color: Brown.
       7. Surface texture: Reversible; smooth one side, wire brushed on other side.
       8. Finish: [Unoiled.] [Pre-oiled with Cutek Extreme.]
       9. Installation type: Blind fasten.
       10. Installation method: Screws.

\*\*\*\* OR \*\*\*\*

Retain the following for 1 x 3 inch Radiata Pine installed with PaCS press-and-click system.

* + 1. Thermally Modified Wood:
       1. Species: Clear Pine, Radiata.
       2. Nominal size: 1 x 3 inches.
       3. Actual size: 0.79 x 2.5 inches.
       4. Coverage: 2.75 inches.
       5. Profile: C7J rambus, 45 degree angle.
       6. Color: Brown.
       7. Surface texture: Smooth.
       8. Finish: [Unoiled.] [Pre-oiled with Cutek Extreme.]
       9. Installation type: Hidden.
       10. Installation method: PaCS press-and-click system.
  1. ACCESSORIES

Retain one of the following three paragraphs for metal flashings.

* + 1. Metal Flashings: Aluminum sheet, ASTM B209, [0.026] [0.032] [\_\_] inch thick, [mill finish.] [[clear] [bronze] [black] anodized] finish.] [fluoropolymer coated finish, [\_\_\_\_] color [to be selected.]

\*\*\* OR \*\*\*

* + 1. Metal Flashings: Stainless steel sheet, ASTM A666, Type 305, [0.018] [\_\_] inch thick.

\*\*\* OR \*\*\*

* + 1. Metal Flashings: Copper sheet, ASTM B370, [0.027] [\_\_] inch thick.
    2. PaCS Press and Click System: Cladding manufacturer’s standard.

For coastal areas and other locations where corrosion is a concern consider utilizing Type 316 stainless steel fasteners.

* + 1. Fasteners: Type 305 stainless steel screws.

1. **EXECUTION**
   1. INSTALLATION
      1. Install in accordance with manufacturer's instructions.
      2. Installation Method: [Screws.] [PaCS press-and-clip system.]
      3. Install metal flashings at [internal and external corners] [sills] [and] [heads of wall openings]. Provide air space to allow for air movement.

END OF SECTION