Continuous Insulation:
StoTherm®ci
Residential over Wood Frame
Series 2.xx
January 2015

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Continuous Insulation: StoTherm® ci Residential over Wood Frame

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StoTherm® ci
System Components over Wood Frame

Notes:
1] Detail shows the components of a StoTherm ci Exterior Insulation and Finish System (EIFS) with StoGuard Moisture Protection over wood frame construction.
2] StoGuard detail component options:
   a) StoGuard RapidFill
   b) Sto Gold Fill and StoGuard Mesh
   c) Sto Gold Coat with StoGuard Fabric
3] StoGuard joint treatment options:
   a) StoGuard RapidFill
   b) Sto Gold Fill and StoGuard Mesh
   c) Sto Gold Coat with StoGuard Fabric
   d) StoGuard RapidSeal with StoGuard Mesh
4] StoGuard door and window rough opening options:
   a) StoGuard RapidSeal
   b) Sto Gold Fill and StoGuard Mesh
   c) Sto Gold Coat with StoGuard Fabric

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Sto Therm® ci
System Termination at Grade over Wood Frame

Date: January 2015

Notes:
1] Terminate system a minimum of 8” (200mm) above grade or as required by code.

2] Provide ultra-high impact resistance (Sto Detail 1.00b) to a minimum height of 6'-0” (1.8m) above finished grade at areas accessible to pedestrian traffic and other areas exposed to abnormal stress or impact.

3] Additional details for installation of StoGuard are available in Sto Detail Series 20.xx.

4] Alternate starter tracks and base termination details are presented in details 2.12 an 2.13

5] Materials not labeled as Sto products are by others.

6] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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StoTherm® ci
Termination at Grade with Below Grade Waterproofing

Substrate
Sto Gold Coat®
Sto insulation
Sto base coat and mesh
Sto finish
Starter track with weep holes
Sealant with backer rod
Terminate finish a minimum of 8” (200mm) above grade
Slope finished grade away from building
Below Grade System (See note 3)
Sto foundation waterproofing
Foundation drainage system
Back-wrap termination

Notes:
1] Local codes may prohibit foam plastic below grade. Consult codes before constructing this detail.
2] Melting snow and ice may hold water against the system for prolonged periods, resulting in greater maintenance requirements for the finish. In these locations provide greater separation between the finish and finished grade.
3] Consult Sto for information on Below Grade System.

ATTENTION
Termination at Grade with Below Grade Waterproofing
Detail No.: 2.11
Date: January 2015

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StoTherm® ci
Rough Opening Preparation on Wood Frame

Step 1
Wrap inside corners with Sto Guard Mesh®

Step 2
Wrap sill with 9" (230 mm) wide Sto Guard® Mesh returning up the jambs a minimum of 4" (100 mm)

Step 3
Wrap jambs with minimum 9" (230 mm) wide Sto Guard Mesh® lapping minimum 2.5" (65 mm) over extension from sill, then wrap head

Coat all mesh surfaces with Sto Gold Fill® and allow to dry.

Step 4
Coat the entire surface of the wall and into rough opening with Sto Gold Coat®

Notes:
1] Prepare opening prior to the installation of the window or mechanical equipment.

2] Incorporate flashing as illustrated in 2.21 and 2.22 or as per other details where flashing is shown* (e.g. 2.32).

3] The complete installation of window or mechanical equipment should include an airseal between the object and the Sto Guard® protection inbound of the outer sealant joint.

* See details 20.20F and 20.20R for alternative options.

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**StoTherm® ci**
Head Flashing Preparation over Wood Frame

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**Notes:**
1] Provide head flashing as required by local building codes* and window manufacturer.

2] Coordinate Sto Guard® installation sequence with window installer and other related trades.

3] See details 20.20F and 20.20R for alternate options.

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**Detail No.: 2.21**

**Date:** January 2015

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**Supporting structure**

**Substrate**

**StoGuard® Detail Component**

**Head flashing**

**Rough window opening wrapped with Sto Guard® prior to installation of head flashing (Refer to Sto Detail 2.20)**

**Sto Gold Coat®**

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**Notes:**

1] Provide head flashing as required by local building codes* and window manufacturer.

2] Coordinate Sto Guard® installation sequence with window installer and other related trades.

3] See details 20.20F and 20.20R for alternate options.

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**Head Flashing Preparation over Wood Frame**

1] Provide head flashing as required by local building codes* and window manufacturer.

2] Coordinate Sto Guard® installation sequence with window installer and other related trades.

3] See details 20.20F and 20.20R for alternate options.

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StoTherm® ci
Rough Opening Sill Preparation over Wood Frame

Date: January 2015

Notes:
1) Prepare rough opening as illustrated in Sto Detail 2.20.
2) Provide flashing as part of the sub-sill drainage assembly used in lieu of pan flashing.
3) Size width of flashing to drain water penetration through the window and the perimeter sealant joint.
4) Coordinate StoGuard installation sequence with window installer and other related trades.
5) Install window so that adequate space for drainage is maintained between nail fin and StoGuard.
6) The complete installation of window or mechanical equipment should include an air seal connection between the object and StoGuard Waterproofing/Air Barrier. Provide the air seal connection in bound of the outer perimeter sealant joint.
7) Additional transition membrane treatments are presented in Sto Detail Series 20.xx
8) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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StoTherm® ci
Flanged Window Head over Wood Frame

Date: January 2015

Notes:

1] Prepare rough opening as illustrated in Sto Detail 2.20.
2] Provide flashing over window as mandated by code.
3] Coordinate StoGuard installation sequence with window installer and other related trades.
4] Install window so that adequate space for drainage is maintained between nail fin and StoGuard.
5] The complete installation of window or mechanical equipment should include an air seal connection between the object and StoGuard Waterproofing/Air barrier. Provide the air seal connection inbound of the outer perimeter sealant joint.
6] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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StoTherm® ci
Sill Flashing: Nail Fin Window over Wood Frame

Date: January 2015

### Step 1
Prepare opening with StoGuard® (Sto Detail 2.20)

### Step 2
Install window with seals at head (Sto Detail 2.23) and jamb flanges
- Install spacers at sill flange
- Install sill flashing (Sto Detail 2.22)

### Step 3
Install air seal at interior perimeter
- Install sill feature to permit drainage from the window

### Step 4
Install backer rod and sealant around window perimeter

---

**Notes:**

1. Prepare rough opening as illustrated in Sto Detail 2.20.
2. Provide flashing as part of the sub-sill drainage assembly used in lieu of pan flashing.
3. Size width of flashing to drain water penetration through the window and the perimeter sealant joint.
4. Coordinate StoGuard installation sequence with window installer and other related trades.
5. Install window so that adequate space for drainage is maintained between nail fin and StoGuard.
6. The complete installation of window should include an air seal connection between window and StoGuard Waterproofing/Air Barrier. Provide the air seal connection inbound of the outer perimeter sealant joint.
7. Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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StoTherm® ci
Sill Flashing: Brick Mold Window over Wood Frame

Date: January 2015

Details No.: 2.26

Step 1
Install a ribbon of sealant over the StoGuard® Waterproofing/Air Barrier

Step 2
Immediately press the sill flashing into the wet sealant and allow sealant to cure

Position of window shown in red

Step 3
Install StoGuard® Detail Component lapping over end dams of the flashing

Step 4
Install window
Install air seal
Install cladding

Step 1
1) Install sealant to provide an air seal between the StoGuard and pan flashing.

Step 2
2) Press the pan flashing into place and, if necessary, fasten through the wet sealant.

Step 3
3) Install StoGuard Detail Component over the enddam of the flashing so water draining down the jamb will be directed into the pan flashing. See details 20.20F and 20.20R for alternate options.

Step 4
4) Install the window and seal the interior perimeter with an air seal.
5) Install the cladding and provide a seal between the head and jambs of the window. Allow water to drain from the sill.

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Attention
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## StoTherm® ci

**Deck Connection over Wood Frame**

**Date:** January 2015

### Notes:

1. StoTherm ci installation terminates at deck attachment.
2. Deck attachment should be adequately flashed and drained away from the cladding.
3. Maintain a 3/4" (20mm) joint between StoTherm ci termination and flashing. Provide backer rod and sealant around the perimeter of the deck flashing.
4. Deck assembly and attachment are not part of the StoTherm ci cladding. Caution should be exercised to ensure that water does not penetrate through the attachment into the wall assembly.
5. Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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**StoTherm® ci**

Floor Line Joint over Wood Frame

**Detail No.: 2.50**

**Date: January 2015**

**Notes:**

1. Joint required at floor lines in wood frame construction.

2. Gap wood sheathing edge and end joints in accordance with APA (American Plywood Association) recommendations.

3. Maintain waterproofing and air barrier continuity with a barrier membrane across the sheathing joint. Support the barrier membrane with a backer rod.

4. Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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StoTherm® ci
Termination at Roof Rake Over Wood Frame

Date: January 2015

Detail No.: 2.62

Notes:

1) Coordinate installation of StoGuard Waterproofing/Air Barrier and roofing.

2) Install StoGuard on wall prior to roof installation.

3) After roof installation, integrate step and diverter flashing into StoGuard to ensure drainage onto the roof.

4) Terminate StoTherm 2" (50 mm) minimum above finished roof.

5) Install gutter or eaves trough after the installation of the StoTherm to ensure adequate clearance.

6) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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StoTherm® ci
Surface Mount Penetration over Wood Frame

Step 1
- StoGuard®
- StoGuard® over blocking
- Blocking
- Hole for electrical conduit

Step 2
- StoTherm® ci
- Backer rod and sealant
- Electrical box set in sealant
- Conduit set in sealant

Notes:
1] Install StoGuard and mount blocking where fixture is to be installed. Coat blocking with StoGuard, or install blocking to substrate and install StoGuard over entire wall surface.

2] Drill hole through blocking for conduit. Line hole with neutral cure sealant when installing conduit.

3] Install bead of sealant on back of electrical box and fasten box over blocking.

4] Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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StoTherm® ci
Downspout Attachment

Detail No.: 2.74
Date: January 2015

Notes:

1) Mark the location of the fastener on the finish.

2) Drill hole through StoTherm ci to sheathing.

3) Line hole with sealant and insert PVC sleeve 1/8" (3 mm) longer than the thickness of the StoTherm ci. Tool the excess sealant around the PVC sleeve.

4) Fill the PVC sleeve with sealant and immediately fasten downspout strap with screw through the wet sealant into the substrate. Tool sealant around screw head and remove excess.

5) Refer to Sto specifications and product bulletins for detailed information on substrates and Sto material options.

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