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StoTherm® ci Over Masonry System Components

**Notes:**
Detail shows the components of StoTherm® ci Continuous Insulation System:
1) StoGuard® Waterproof Air Barrier (2 coats minimum)
2) Sto Adhesive
3) Sto Insulation Board
4) Sto Base Coat
5) Sto Mesh
6) Sto Finish

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StoTherm® ci Over Masonry Termination at Grade

**Notes:**

1) Provide minimum 6 inches (152 mm) clearance between StoTherm® ci termination and finished grade. Increase distance above grade for snow regions.

2) Provide cementitious damp proofing or waterproofing as needed below grade and on exposed masonry above grade. Counter flash StoTherm® ci over damp-proofing/waterproofing. Where StoTherm® ci is installed over non-cementitious damp-proofing/waterproofing verify compatibility of StoTherm® ci components.

3) Provide adequate slope of finished grade away from structure for drainage.

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www.stocorp.com
StoTherm® ci Over Masonry
Termination at Sidewalk with Expansion Joint

Masonry Substrate

Sto Adhesive

Sto Insulation Board

Sto Base Coat and Mesh

Sto Finish

StoGuard®
Waterproof Air Barrier
(2 coats minimum)

Pre-wrapped or back wrapped Sto Insulation Board

Backer Rod and Sealant

Cementitious Damp-proofing or Waterproofing as needed

Notes:
1) Detail is intended for areas of construction protected from weather - covered walk ways, balconies or decks under cover, or areas protected with large projecting eaves or soffit overhangs. Refer to Sto Detail 19.01a for weather exposed areas.

2) Provide cementitious damp proofing or waterproofing as needed below grade and on exposed masonry above grade. Counter flash StoTherm® ci over damp-proofing/waterproofing. Where StoTherm® ci is installed over non-cementitious damp-proofing/waterproofing verify compatibility of StoTherm® ci components.

3) Provide adequate slope of finished grade away from structure for drainage.

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StoTherm® ci Over Masonry
Window Head/Jamb: Rough Opening Protection

Notes:
1) Protect masonry with StoGuard® RapidSeal™. Fold up minimum 2 inches (51mm) at head and at ends onto face of masonry.
2) Refer to Sto detail 19.24a2 for window installation and Sto detail 19.24a3 for complete assembly.
3) Test the final assembly using materials and sub-trades associated with the project to verify performance.
StoTherm® ci Over Masonry
Window Head/Jamb: Window Installed

Detail No.: 19.24a2
Date: February 2019

Notes:

1) Provide gap for continuous exterior perimeter weather seal.
2) Provide gap for continuous interior perimeter air seal.
3) Consult with window and sealant manufacturers to verify installation detailing.
4) Refer to Sto detail 19.24a1 for rough opening protection and Sto detail 19.24a3 for complete assembly.
5) Test the final assembly using materials and sub-trades associated with the project to verify performance.

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Sto Therm® ci Over Masonry
Window Head/Jamb: Sto Therm® ci Return and Perimeter Seals

Notes:

1) Provide continuous exterior perimeter weather seal.
2) Provide continuous interior perimeter air seal.
3) Consult with window and sealant manufacturer to verify installation detailing.
4) Refer to Sto detail 19.24a1 for rough opening protection and Sto detail 19.24a2 for window installation.
5) Test the final assembly using materials and sub-trades associated with the project to verify performance.

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StoTherm® ci Over Masonry
Window Sill: Rough Opening Protection and Pan Flashing at Sill

Notes:
1) Protect masonry sill with StoGuard® RapidSeal™. Fold up minimum 4 inches (102mm) at jamb. Fold down 2 inches (51mm) at sill and at ends onto face of masonry.
2) Install StoGuard® RapidSeal™ strip at back of opening to create slope and fold up nailer.
3) Secure pre-fabricated pan flashing by others into place.
4) Provide pan flashing with thermal break in cold climate zones.
5) Refer to Detail 19.26a2 for protection at jamb and Sto details 19.24a1 and 19.24a2 for protection at head. Refer to Sto detail 19.26a3 for complete sill / jamb assembly.

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StoTherm® ci Over Masonry
Window Sill/Jamb: Rough Opening Protection
and Pan Flashing with Window Installed

Detail No.: 19.26a2
Date: February 2019

Notes:
1) Provide gap for continuous exterior perimeter weather seal.
2) Provide gap for continuous interior perimeter air seal.
3) Consult with window and sealant manufacturers to verify installation detailing.
4) See Sto detail 19.26a1 for rough opening protection and pan flashing at sill. See Sto detail 19.24a1 and 19.24a2 for protection at head. See Sto detail 19.26a3 for complete sill/jamb assembly.
5) Test the final assembly using materials and sub-trades associated with the project to verify performance.

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StoTherm® ci Over Masonry Window Sill/Jamb: Window Installed with StoTherm® ci Return and Perimeter Seals

Notes:
1) Provide gap for continuous exterior perimeter weather seal.
2) Provide gap for continuous interior perimeter air seal.
3) Consult with window and sealant manufacturer to verify installation detailing.
4) See Sto detail 19.26a1 and 19.26a2 for rough opening protection and pan flashing at sill. See Sto details 19.24a1 and 19.24a2 for protection at head and 19.24a3 for complete head / jamb assembly.
5) Test the final assembly using material and sub-trades associated with the project to verify performance.

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StoTherm® ci Over Masonry
Floor Line with Joint

Detail No.: 19.41
Date: February 2019

Floor Slab
Masonry Substrate
Sto Adhesive
Pre-wrapped or back wrapped Sto Insulation Board
Backer rod and Sealant
StoGuard® Transition Membrane
Sto Finish
Sto Base Coat and Mesh
Sto Insulation Board
StoGuard® Waterproof Air Barrier (2 coats minimum)

Notes:
1) Provide joint at floor line to coincide with line where masonry adjoins under side of concrete floor slab.
2) Back joint with StoGuard® Transition Membrane.

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StoTherm® ci Over Masonry
Horizontal Joint at Dissimilar Material

Detail No.: 19.42
Date: February 2019

Notes:
1) Provide flashing minimum 4 inches (100mm) behind StoTherm® ci and project flashing with drip edge beyond face of alternate cladding below.

2) Determine installation sequence in advance of construction.

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**StoTherm® ci Over Masonry Vertical Joint at Dissimilar Material**

**Detail No.: 19.50**
**Date: February 2019**

**Notes:**
1) Determine installation sequence in advance of construction. Coordinate subtrades to ensure the proper installation of materials.
2) StoGuard® Transition Membrane isolates the potentially wet environment behind the alternate cladding from StoTherm® ci.
3) Provide minimum 3/4" (20mm) joint between the StoTherm® ci and the alternate cladding. Provide drainage for the joint assembly.

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**StoTherm® ci Over Masonry**

**Vertical Expansion Joint**

**Detail No.: 19.51**

**Date:** February 2019

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**Notes:**

1) Provide minimum 3/4” (20mm) joint.

2) Refer to StoTherm ci System Bulletins and Specifications, Sto Product Bulletins, Tech Hotlines, and Sto Installation and Maintenance Guides for complete information.

3) Refer to applicable ICC or CCMC Evaluation Report for building code compliance information.

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NEWagrams

**Backer Rod**

(To support Sto Transition Membrane but not restrict its movement)

**Masonry Substrate**

**StoGuard® Transition Membrane**

(Embedded in StoGuard® Air and Moisture Barrier)

**Sto Adhesive**

**StoGuard® Air and Moisture Barrier**

**Sto EPS Insulation Board**

(Pre-wrapped or back wrapped)

**Sto Base Coat and Mesh**

**Sto Primer**

(optional)

**Sealant and Backer Rod**

**Sto Finish**

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StoTherm® ci Over Masonry
Termination at Built-Out Feature

**Notes:**

1) Terminate StoTherm® ci minimum 2 inches (51mm) above metal flashing with minimum 2 inch (51mm) overlap of flashing.

2) Provide sealant beneath flashing drip edge.

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StoTherm® ci Over Masonry
Termination at Flat Roof with Gravel Stop

Detail No.: 19.60a
Date: February 2019

Notes:

1) Provide continuity of roofing membrane with StoTherm® ci for air tight and water tight condition beneath gravel stop. Verify compatibility of materials where they overlap or interface.

2) Provide minimum 2-1/2 inch (64mm) overlap of gravel stop over terminating edge of StoTherm® ci for single story construction. Increase overlap with building height.

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**Notes:**

1) Provide continuity of roof membrane along back of parapet with base coat for air barrier continuity and verify compatibility of roof membrane if in contact with base coat.

2) Completely insulate back side of parapet if necessary to prevent condensation within parapet based on climate conditions.

3) Provide minimum 2.5 inch (65mm) overlap of parapet coping over face of StoTherm® ci. Increase overlap with building height.

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StoTherm® ci Over Masonry Termination at Eave

**Roof Assembly**

**Masonry Substrate**

**Backer rod and Sealant**

**Pre-wrapped or back wrapped Sto Insulation Board**

**Sto Adhesive**

**Sto Finish**

**Sto Base Coat and Mesh**

**Sto Insulation Board**

**StoGuard® Waterproof Air Barrier (2 coats minimum)**

**Notes:**
1) Install soffit board prior to installation StoTherm® ci to provide bearing surface for sealant and backer rod.
2) Provide air tight connection with roof / eave air barrier material with StoGuard®.

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StoTherm® ci Over Masonry
Termination at Fixture Penetration through StoTherm® ci

Notes:
1) For some penetrations a fillet bead of sealant over bond breaker around perimeter of penetration may also be acceptable. Consult with sealant manufacturer.

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StoTherm® ci Over Masonry
Surface Mount Fixture Attachment Through StoTherm® ci

Notes:

1) Provide minimum 6 inches (152 mm) clearance between StoTherm® ci termination and finished grade. Increase distance above grade for snow regions.

2) Provide cementitious damp proofing or waterproofing as needed below grade and on exposed masonry above grade. Counter flash StoTherm® ci over damp-proofing/waterproofing. Where StoTherm® ci and non-cementitious damp-proofing/waterproofing meet, verify compatibility of StoTherm® ci components.

3) Provide adequate slope of finished grade away from structure for drainage.

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StoTherm® ci Over Masonry Termination at Scupper Penetration

Detail No.: 19.75
Date: February 2019

Notes:

1) Provide leakproof scupper assembly and installation to direct water away from the wall surface.

Masonry Substrate
StoGuard® Waterproof Air Barrier (2 coats minimum)
Back-wrap Termination
Waterproof membrane
Backer rod with Sealant entire perimeter
Scupper Assembly
Sto Finish
Sto Base Coat and Mesh
Sto Insulation Board
Roof or deck assembly

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www.stocorp.com
Masonry Substrate

StoGuard®
Waterproof Air Barrier
(2 coats minimum)

Sto Adhesive

Spray foam around perimeter of penetrating element.

Backer rod with Sealant entire perimeter

Pipe Penetration

Back-wrap Termination

Sto Finish

Sto Base Coat and Mesh

Sto Insulation Board

Notes:
1) For some penetrations a fillet bead of sealant over bond breaker around perimeter of penetration may also be acceptable. Consult with sealant manufacturer.

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