

# **StoPowerwall®ci**

Commercial
Frame Construction
Series 63s.xx
Insulaton Outbound
March 2016

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# Sto Powerwall®ci System Components

Metal Frame Glass Mat Gypsum Sheathing (Compliance with ASTM C 1177) StoGuard® Joint Treatment StoGuard® Waterproof Air and Moisture Barrier Dow Type IV XPS Insulation Board (See Note 6) Code Compliant Building Paper or Felt (optional if assembly is drained behind insulation board) Sto DrainScreen™ Expanded Galvanized Self-Furred Diamond Mesh Metal Lath -StoPowerwall™Scratch Coat -StoPowerwall™Brown Coat Sto Primer Sto Textured Finish IMPORTANT: Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents. Property of Sto Corp. All Rights Reserved

## **Notes:**

1. StoGuard® joint treatment options:
a. StoGuard® RapidFill®
(joints ≤ 1/4 inch [6 mm])
b. Sto Gold Fill® with StoGuard®
Mesh (joints ≤ 1/8 inch [3 mm])
c. StoGuard® Fabric with StoGuard®
air and moisture barrier
(joints ≤ 1/8 inch [3 mm])

Detail No.: 63s.00

Date: March 2016

- 2. StoGuard® air and moisture barrier options:
  - a. Sto Gold Coat® (vapor permeable)
  - b. Sto EmeraldCoat® (high perm)
  - c. Sto VaporSeal™(vapor impermeable) d. Sto AirSeal™ (high perm)
  - (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction.
- 5. Prevent the accumulation of water into or behind the stucco, either by condensation or leakage into the wall construction, in the design and detailing of the wall assembly.

  Drainage is not a replacement for sound design and construction practice. Refer to Sto Tech Hotline Nos. 0403-BSc, Critical Detail Checklist for Wall Assemblies, and 0603-BSc, Moisture Control Principles for Design and Construction of Wall Assemblies, for more information.
- 6. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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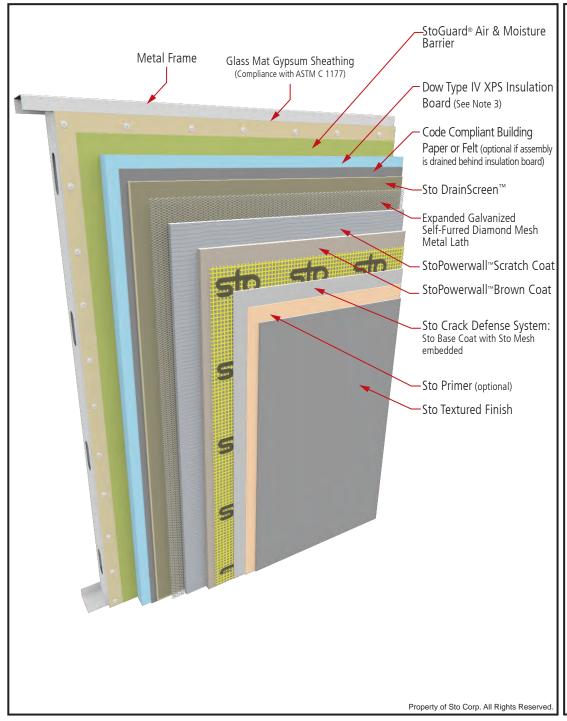
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# **StoPowerwall® ci** with Sto Crack Defense System System Components - Insulation Outbound



#### **Notes:**

1. StoGuard® Air & Moisture Barrier options:

Detail No.: 63s.01

Date: March 2016

- a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)
- 2. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air & Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 3. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction

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# Sto®Powerwall®ci Termination at Grade: Sheathing Flush with Foundation

## Metal Frame StoGuard® Joint Treatment Glass Mat Gypsum Sheathing (Compliance with ASTM C 1177) StoGuard® Air and Moisture Barrier Dow Type IV XPS Insulation Board (See Insulation Note) Code Compliant Building Paper or Felt (optional if assembly is drained behind insulation board) Sto DrainScreen™ Expanded Galvanized Self-Furred Diamond Mesh Metal Lath StoPowerwall™Scratch Coat StoPowerwall™Brown Coat Sto Primer Sto Textured Finish Sto Smooth Coating (Or other compatible UV resistant top coat) See Inset for details Corrosion-Resistant Weep Screed or Flashing StoGuard® Transition (See Note 5) Membane 4"Min **Insulation Note:** Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2'x8' (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with

## **Notes:**

- 1. StoGuard® joint treatment options:
- a. StoGuard® RapidFill

Detail No.: 63s.02

Date: March 2016

- ( joints ≤ 1/4 inch [6 mm] )
- b. Sto Gold Fill® with StoGuard®
- Mesh (joints  $\leq 1/8$  inch [3 mm])
- c. StoGuard® Fabric with StoGuard® air and moisture barrier
- ( joints ≤ 1/8 inch [3 mm])
- 2. StoGuard® Transition Membrane Options:
- a. StoGuard® RaidSeal® with StoGuard® Mesh
- b. Sto Gold Fill with StoGuard® Mesh
- 3. StoGuard® air and moisture barrier options:
  - a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal<sup>™</sup>(vapor impermeable)
- d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)
- 4. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 5. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 6. Cladding termination minimum 4" (101 mm) above finish grade, minimum 2" (51mm) above paved surfaces. In areas where the probability of termite infestation is very heavy, foam plastic insulation may require at least 6" (152 mm) clearance above grade (see IBC Section 2903.9).

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channels oriented vertically, OR use other code approved method.

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Inset - Ground Clearance

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# Sto®Powerwall®ci Termination at Grade: Sheathing over Foundation

## Metal Frame StoGuard® Joint Treatment Glass Mat Gypsum Sheathing (Compliance with ASTM C 1177) StoGuard® Air and Moisture Barrier Dow Type IV XPS Insulation Board (See Insulation Note) Code Compliant Building Paper or Felt (optional if assembly is drained behind insulation board) Sto DrainScreen™ Expanded Galvanized Self-Furred Diamond Mesh Metal Lath -StoPowerwall™Scratch Coat StoPowerwall™Brown Coat Sto Primer Sto Textured Finish StoGuard® Transition Membrane Sto Smooth Coating (Or other compatible UV resistant top Corrosion-Resistant Weep Screed or Flashing StoGuard® Transition (See Note 5) Membrane 1"Min. **Insulation Note:** Provide drainage behind insulation Clearance board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2'x8' (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented Inset - Ground Clearance (See Note 7) vertically, OR use other code approved method.

## Notes:

1. StoGuard® joint treatment options:
a. StoGuard® RapidFill
(joints ≤ 1/4 inch [6 mm])
b. Sto Gold Fill® with StoGuard®
Mesh (joints ≤ 1/8 inch [3 mm])
c. StoGuard® Fabric with StoGuard®
air and amoisture barrier
(joints ≤ 1/8 inch [3 mm])

Detail No.: 63s.03

Date: March 2016

- 2. StoGuard® Transition Membrane Options:
- a. StoGuard® RaidSeal® with StoGuard® Mesh
- b. Sto Gold Fill with StoGuard® Mesh c. StoGuard® Fabric with StoGuard® waterproof air barrier membrane (for transition at weep screed only)
- 3. StoGuard® air and moisture barrier options:
- a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)
- 4. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 5. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 6. Cladding termination minimum 4" (101 mm) above finish grade, minimum 2" (51mm) above paved surfaces. In areas where the probability of termite infestation is very heavy, foam plastic insulation may require at least 6" (152 mm) clearance above grade (see IBC Section 2903.9).

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# Sto®Powerwall®ci Rough Opening Protection with StoGuard®Fabric

Step 1 Apply StoGuard® air and moisture barrier liberally at corners of rough openings and place StoGuard® RediCorners<sup>™</sup> in wet membrane. Use brush, roller, trowel or taping knife to fully embed StoGuard® RediCorner™ StoGuard® RediCorners<sup>™</sup> Glass Mat Gypsum Sheathing (Compliance with ASTM C 1177) StoGuard® Air and Moisture StoGuard® Joint Treatment Step 2 Immediately apply StoGuard® air and mositure barrier liberally to inside of opening and around outside of head, sill and jambs. Center 6"(150 mm) wide StoGuard®Fabric on outside corners and press into wet membrane along the head, jambs, and sill with minimum StoGuard® Fabric. 2" (50 mm) overlaps of adjacent fabric. Use

Detail No.: 63s.04F Date: March 2016 Page 1 of 2

### Notes:

- 1. StoGuard® joint treatment options:
  a. StoGuard® RapidFill
  ( joints ≤ 1/4 inch [6 mm] )
  b. Sto Gold Fill® with StoGuard®
  Mesh ( joints ≤ 1/8 inch [3 mm])
  c. StoGuard® Fabric with StoGuard®
  air and moisture barrier
  ( joints ≤ 1/8 inch [3 mm])
- 2. Rough Opening Protection Options:
  a.Sto Gold Fill with StoGuard®Mesh
  (refer to Sto Detail 20.20M)
  b. Sto Waterproof Air Barrier with
  StoGuard® Fabric
  (refer to Sto Detail 20.20F)
  c. Sto Waterproof Air Barrier with
  StoGuard® Fabric and StoGuard® Tape
  (refer to Sto Detail 20.20FT)
  d. StoGuard® Tape
  (refer to Sto Detail 20.20T)
  e. StoGuard® RapidSeal®
  (refer to Sto Detail 20.20R)
- 3. StoGuard® air and moisture barrier options:
  - a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal  $^{\scriptscriptstyle{\text{TM}}}$  (vapor impermeable)
- d. Sto AirSeal™ (high perm)
  (Not for use with Sto Guard Fabric)
- 4. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 5. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction

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embed.

brush, roller, trowel or taping knife to fully

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# Sto®Powerwall®ci Rough Opening Protection with StoGuard®Fabric

Step 3 Immediately coat the entire surface of the wall and into rough opening with StoGuard® waterproof air barrier membrane to produce a void and pinhole free surface. Edges of StoGuard®RediCorners™ and StoGuard®Fabric must lay flat, wrinkle-free, and be fully embedded in the membrane and fully adhered to the substrate or previous layer of StoGuard® Fabric. StoGuard® Waterproof Air Barrier Membrane StoGuard® Transition Membrane See note #3 # Head Flashing Dow Type IV XPS Insulation Board (See Insulation Note) StoGuard® Transition Membrane Pan Flashing Insulation Note: Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2'x8' (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented

Detail No.: 63s.04F Date: March 2016 Page 2 of 2

#### Notes:

- 1. StoGuard® joint treatment options:
  a. StoGuard® RapidFill
  ( joints ≤ 1/4 inch [6 mm] )
  b. Sto Gold Fill® with StoGuard®
  Mesh ( joints ≤ 1/8 inch [3 mm])
  c. StoGuard® Fabric with StoGuard®
  air and moisture barrier
  ( joints ≤ 1/8 inch [3 mm])
- 2. Rough Opening Protection Options:
  a.Sto Gold Fill with StoGuard®Mesh
  (refer to Sto Detail 20.20M)
  b. Sto Waterproof Air Barrier with
  StoGuard® Fabric
  (refer to Sto Detail 20.20F)
  c. Sto Waterproof Air Barrier with
  StoGuard® Fabric and StoGuard® Tape
  (refer to Sto Detail 20.20FT)
  d. StoGuard® Tape
  (refer to Sto Detail 20.20T)
  e. StoGuard® RapidSeal®
  (refer to Sto Detail 20.20R)
- 3. StoGuard® air and moisture barrier options:
- a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat $^{\circ}$  (high perm)
- c. Sto VaporSeal $^{\text{\tiny TM}}$ (vapor impermeable)
- d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)
- 4. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 5. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction

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# Sto®Powerwall®ci Rough Opening Protection with StoGuard®Mesh

Place 2"(50mm) wide strip of StoGuard® Mesh lapping onto face of wall diagonally at corners of opening. Step 2 StoGuard® Mesh Wrap sill with 9"(230mm) wide StoGuard® Mesh returning up the jambs a minimum of 4"(100mm) (3) Step 3 Wrap jambs with minimum 9"(230mm) wide StoGuard® StoGuard® Joint Mesh, lapping minimum Treatment 2.5"(64mm) over extension from sill, then wrap head. Step 4 Coat StoGuard® Mesh with Sto Gold Fill®. StoGuard® Gold Fill Glass Mat Gypsum Sheathing (Compliance with ASTM C 1177) Property of Sto Corp. All Rights Reserved.

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### **Notes:**

- a. StoGuard® joint treatment options:
  a. StoGuard® RapidSeal® with
  StoGuard® Mesh
  ( joints ≤ 1/4 inch [6 mm] )
  b. Sto Gold Fill® with StoGuard®
  Mesh ( joints ≤ 1/8 inch [3 mm])
  c. StoGuard® Fabric with StoGuard®
  waterproof air barrier membrane
  ( joints ≤ 1/8 inch [3 mm])
- 2. Rough Opening Protection Options:
  a.Sto Gold Fill with StoGuard®Mesh
  (refer to Sto Detail 20.20M)
  b. Sto Waterproof Air Barrier with
  StoGuard® Fabric
  (refer to Sto Detail 20.20F)
  c. Sto Waterproof Air Barrier with
  StoGuard® Fabric and StoGuard® Tape
  (refer to Sto Detail 20.20FT)
  d. StoGuard® Tape
  (refer to Sto Detail 20.20T)
  e. StoGuard® RapidSeal®
  (refer to Sto Detail 20.20R)
- 3. StoGuard® waterproof air barrier membrane options:
- a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)
- 4. Refer to product bulletins and Sto Specification S 507 for complete information on Sto products. Refer to StoGuard® Waterproof Air Barrier detail series 20.XX for information on detailing with StoGuard®.
- 5. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction

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# Sto®Powerwall®ci Rough Opening Protection with StoGuard®Mesh

Step 4 Coat the entire surface of the wall and into rough opening with StoGuard® air and moisture barrier. StoGuard® EmeraldCoat® StoGuard® Transition Membrane (See note #3) Head Flashing StoGuard®Air and Moisture Barrier StoGuard® Transition Membrane Pan Flashing-Dow Type IV XPS Insulation-Board (See Insulation Note) **Insulation Note:** Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2'x8' (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method. Property of Sto Corp. All Rights Reserved.

Detail No.: 63s.04M Date: March 2016 Page 2 of 2

#### Notes:

- 1. StoGuard® joint treatment options: a. StoGuard® RapidSeal® with StoGuard® Mesh (joints  $\leq 1/4$  inch [6 mm]) b. Sto Gold Fill® with StoGuard® Mesh (joints  $\leq 1/8$  inch [3 mm]) c. StoGuard® Fabric with StoGuard® waterproof air barrier membrane (joints  $\leq 1/8$  inch [3 mm])
- 2. Rough Opening Protection Options: a.Sto Gold Fill with StoGuard®Mesh (refer to Sto Detail 20.20M) b. Sto Waterproof Air Barrier with StoGuard® Fabric (refer to Sto Detail 20.20F) c. Sto Waterproof Air Barrier with StoGuard® Fabric and StoGuard® Tape (refer to Sto Detail 20.20FT) d. StoGuard® Tape (refer to Sto Detail 20.20T) e. StoGuard® RapidSeal® (refer to Sto Detail 20.20R)
- 3. StoGuard® waterproof air barrier membrane options:
  - a. Sto Gold Coat® (vapor permeable)
  - b. Sto EmeraldCoat® (high perm)
  - c. Sto VaporSeal™(vapor impermeable)
  - d. Sto AirSeal<sup>™</sup> (high perm) (Not for use with Sto Guard Fabric)
- 4. Refer to product bulletins and Sto Specification S 507 for complete information on Sto products. Refer to StoGuard® Waterproof Air Barrier detail series 20.XX for information on detailing with StoGuard®.
- 5. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction

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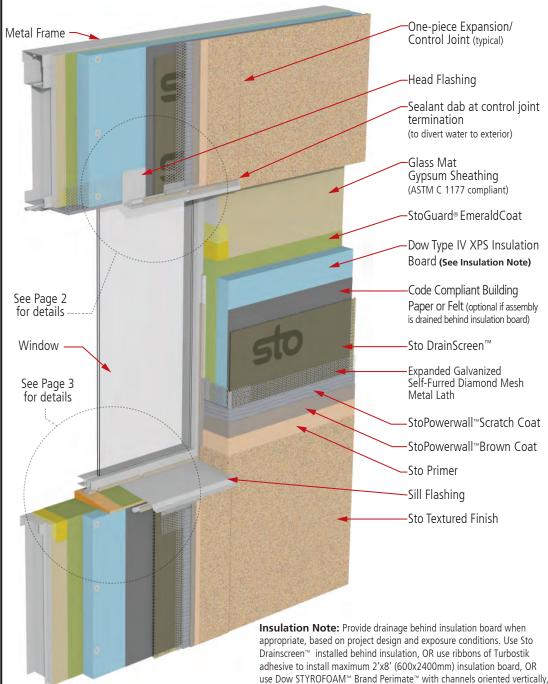
# Sto®Powerwall®ci Box Window at Sill, Jamb, and Head

Detail No.: 63s.05
Date: March 2016
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Notes:

One-piece Expansion/
Control Joint (typical)

a StoGuard® RapidFill
a StoGuard® RapidFill



- 1. StoGuard® joint treatment options:
  a. StoGuard® RapidFill
  (joints ≤ 1/4 inch [6 mm])
  b. Sto Gold Fill® with StoGuard®
  Mesh (joints ≤ 1/8 inch [3 mm])
  c. StoGuard® Fabric with StoGuard®
  waterproof air barrier membrane
  (joints ≤ 1/8 inch [3 mm])
- 2. StoGuard® air and moisture barrier options:
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  - c. Sto VaporSeal™(vapor impermeable)
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  (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 62s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 5. Consult with window and sealant manufacturers to verify window installation and detailing to assure no leakage into the wall assembly. Consult with window manufacturer regarding window and flashing assemblies with thermal breaks to avoid condensation. Test the final assembly using materials and sub-trades associated with the project to verify performance.

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OR use other code approved method.



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# Sto®Powerwall®ci Box Window at Head/Jamb

Code Compliant Building Paper or Felt (optional if assembly is drained behind insulation board)

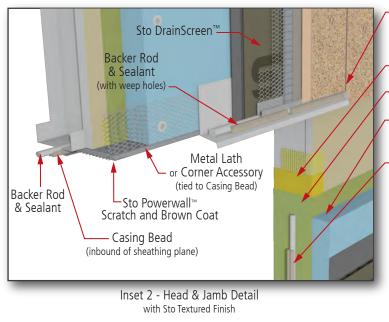
One piece Expansion/
Control Joint (typical)

Flashing End Dam

Metal Lath or Corner Accessory
(folded onto Styrofoam surface)

Head Flashing

Inset 1 - Head & Jamb & End Dam Detail
without Sto Textured Finish



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**ATTENTION** 

-Sealant dab at control joint termination (to divert water to exterior)

-StoGuard® Joint Treatment

-StoGuard® EmeraldCoat

Dow Type IV XPS Insulation
Board (See Insulation Note)

Backer Rod & Sealant

Insulation Note: Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

## Date: March 2016 Page 2 of 3

Detail No.: 63s.05

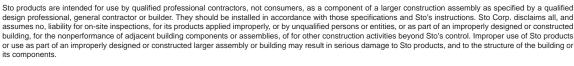
## Notes:

- StoGuard® joint treatment options:

   StoGuard® RapidFill
   (joints ≤ 1/4 inch [6 mm])
   Sto Gold Fill® with StoGuard®

   Mesh (joints ≤ 1/8 inch [3 mm])
   C. StoGuard® Fabric with StoGuard® waterproof air barrier membrane
   (joints ≤ 1/8 inch [3 mm])
- 2. StoGuard® air and moisture barrier options:
- a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal™ (high perm)
  (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 62s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 5. Consult with window and sealant manufacturers to verify window installation and detailing to assure no leakage into the wall assembly. Consult with window manufacturer regarding window and flashing assemblies with thermal breaks to avoid condensation. Test the final assembly using materials and sub-trades associated with the project to verify performance.

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# Sto®Powerwall®ci Box Window at Sill/Jamb

Treatment

Air Seal
- interior around entire
perimeter of window frame
Sealant Bead
StoGuard® Joint

Corner Bead
(tied to Casing Bead)
Casing Bead
Flashing End Dam

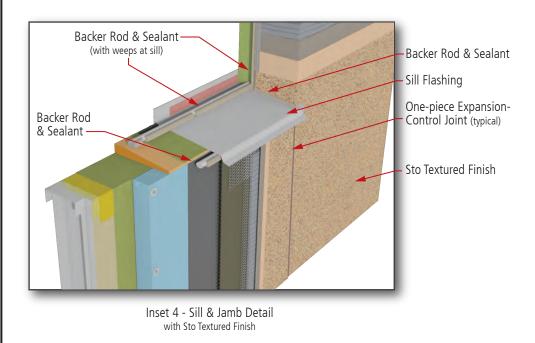
Sto DrainScreen™

Sill Flashing

One piece Expansion/ Control Joint (typical)

Inset 3 - Sill & Jamb Detail without Sto Textured Finish

Sill Wedge



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Detail No.: 63s.05 Date: March 2016

# Page 3 of 3 Notes:

- 1. StoGuard® joint treatment options:
  a. StoGuard® RapidFill
  ( joints ≤ 1/4 inch [6 mm] )
  b. Sto Gold Fill® with StoGuard®
  Mesh ( joints ≤ 1/8 inch [3 mm])
  c. StoGuard® Fabric with StoGuard®
  waterproof air barrier membrane
  ( joints ≤ 1/8 inch [3 mm])
- 2. StoGuard® air and moisture barrier options:
- a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal<sup>™</sup>(vapor impermeable)
- d. Sto AirSeal™ (high perm)

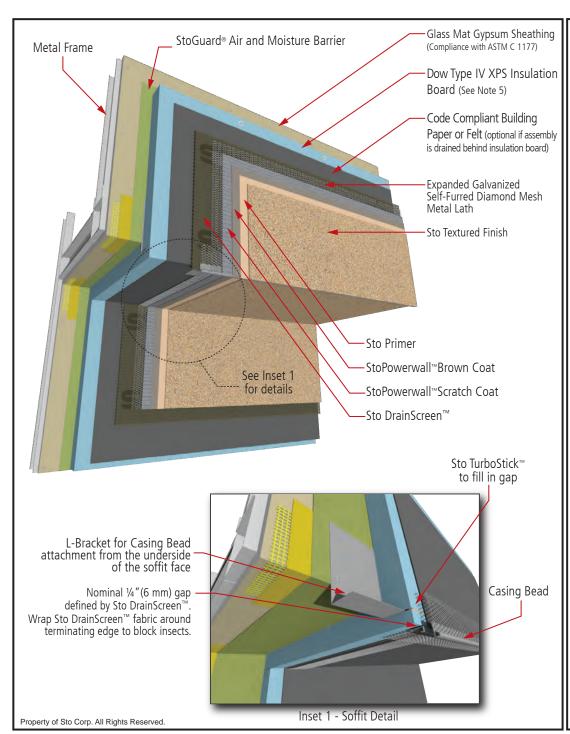
  (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 62s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 5. Consult with window and sealant manufacturers to verify window installation and detailing to assure no leakage into the wall assembly. Consult with window manufacturer regarding window and flashing assemblies with thermal breaks to avoid condensation. Test the final assembly using materials and sub-trades associated with the project to verify performance.

Insulation Note: Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.





## Sto®Powerwall®ci Soffit Return



#### Votes:

1. StoGuard® joint treatment options:

Detail No.: 63s.07

Date: March 2016

- a. StoGuard® RapidFill
- ( joints ≤ 1/4 inch [6 mm] )
- b. Sto Gold Fill® with StoGuard®
- Mesh ( joints  $\leq$  1/8 inch [3 mm]) c. StoGuard® Fabric with StoGuard®
- air and moisture barrier (joints ≤ 1/8 inch [3 mm])
- 2. StoGuard® air and moisture barrier options:
  - a. Sto Gold Coat® (vapor permeable)
  - b. Sto EmeraldCoat® (high perm)
  - c. Sto VaporSeal™(vapor impermeable)
  - d. Sto AirSeal™ (high perm)
    (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 5. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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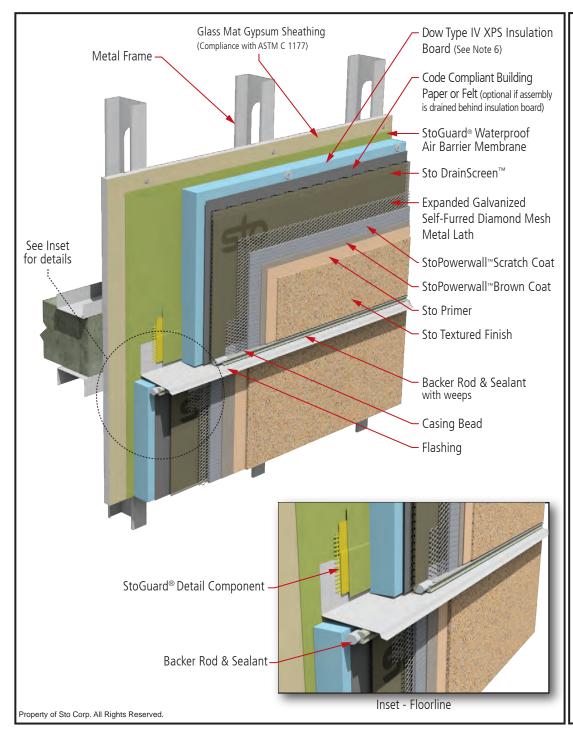
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## StoPowerwall®ci Floorline without Deflection Track



## **Notes:**

1. StoGuard® Detail Component options:

Detail No.: 63s.08

Date: March 2016

- a. StoGuard® RapidFill
- b. Sto Gold Fill® with StoGuard® Mesh
- c. StoGuard® Fabric with StoGuard® air and moisture barrier
- 2. StoGuard® air and moisture barrier options:
  - a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction.
- 5. Design professional to determine need for deflection track. If a deflection track is required, refer to Sto Detail 63s.09 for more information.
- 6. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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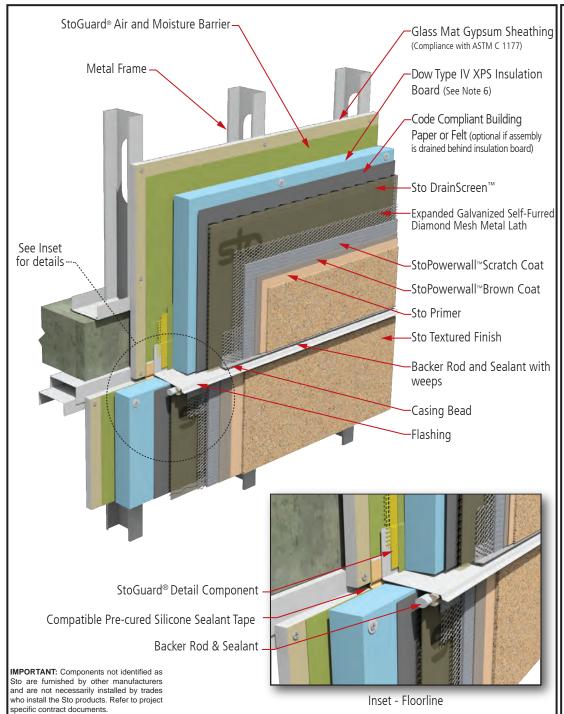
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## Sto®Powerwall®ci Floorline with Deflection Track

ATTENTION



### **Notes:**

1. StoGuard® Detail Component options:

Detail No.: 63s.09

Date: March 2016

- a. StoGuard® RapidFill
- b. Sto Gold Fill® with StoGuard® Mesh
- c. StoGuard® Fabric with StoGuard® air and moisture membrane
- 2. StoGuard® air and moisture barrier options:
- a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)
- 3. Attach assembly components above floor line joint to deep leg track.
  Attach assembly components below floor line joint to embedded track with sufficient distance from deep leg track to allow for unimpeded floor line deflection.
- 4. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 5. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 6. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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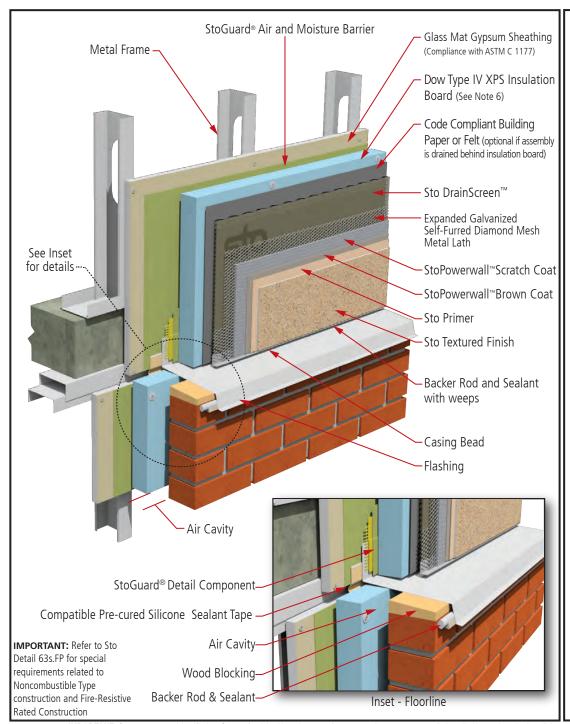
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# StoPowerwall®ci Horizontal Joint at Dissimilar Material



## **Notes:**

1. StoGuard® Detail Component options:

Detail No.: 63s.10

Date: March 2016

- a. StoGuard® RapidFill
- b. Sto Gold Fill® with StoGuard® Mesh
- c. StoGuard® Fabric with StoGuard® air and moisture barrier
- 2. StoGuard® air and moisture barrier options:
- a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal<sup>™</sup>(vapor impermeable)
- d. Sto AirSeal™ (high perm)
  (Not for use with Sto Guard Fabric)
- 3. Attach assembly components above floor line joint to deep leg track.
  Attach assembly components below floor line joint to embedded track with sufficient distance from deep leg track to allow for unimpeded floor line deflection.
- 4. Refer to product bulletins for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 5. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 6. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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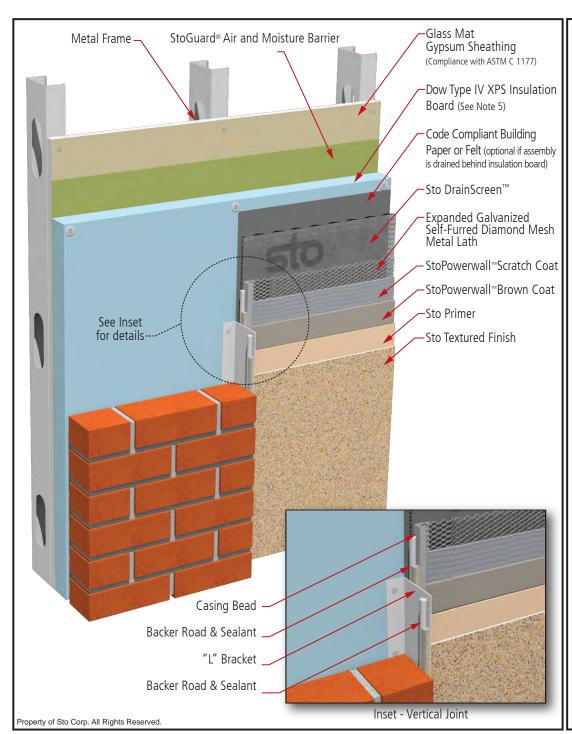
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## StoPowerwall®ci Vertical Joint at Dissimilar Material



### Notes:

- 1. StoGuard® Joint Treatment options:
- a. StoGuard® RapidFill

Detail No.: 63s.11

Date: March 2016

- (joints  $\leq 1/4$  inch [6 mm])
- b. Sto Gold Fill® with StoGuard®
- Mesh (joints  $\leq$  1/8 inch [3 mm])
- c. StoGuard® Fabric with StoGuard® air and moisture barrier
- (joints  $\leq$  1/8 inch [3 mm])
- 2. StoGuard® air and moisture barrier options:
  - a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 63Ps.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 5. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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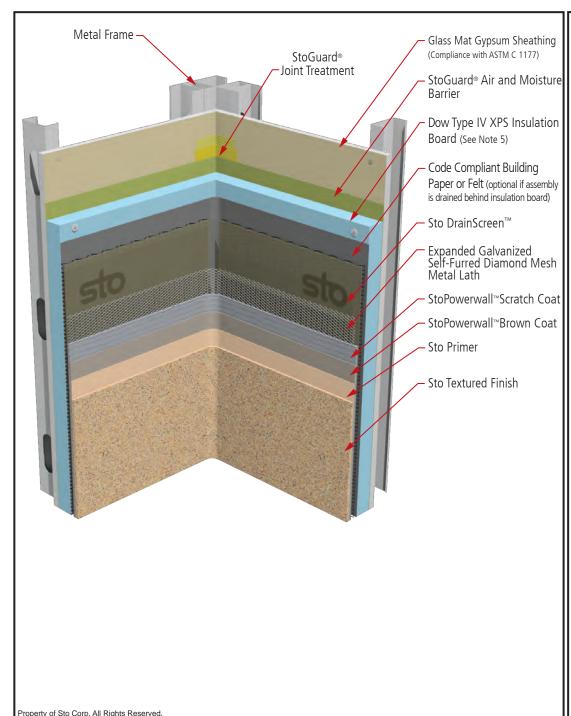
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# StoPowerwall®ci Vertical Joint at Inside Corner: Common Substrate



## **Notes:**

- 1. StoGuard® Joint Treatment options:
- a. StoGuard® RapidFill

Detail No.: 63s.12

Date: March 2016

- (joints  $\leq 1/4$  inch [6 mm])
- b. Sto Gold Fill® with StoGuard®
- Mesh ( joints ≤ 1/8 inch [3 mm])
- c. StoGuard® Fabric with StoGuard® air and moisture barrier (joints ≤ 1/8 inch [3 mm])
- 2. StoGuard® air and moisture barrier options:
  - a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 5. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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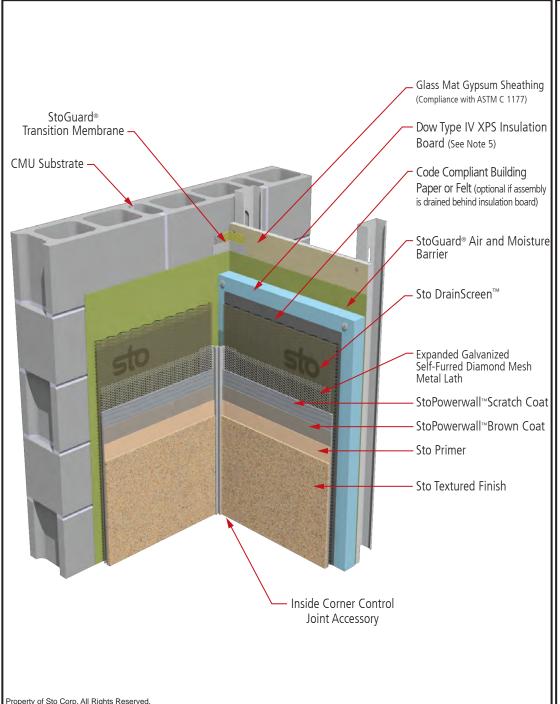
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# StoPowerwall®ci Vertical Joint at Inside Corner: Different Substrate



## **Notes:**

1. StoGuard® Detail Component options:

Detail No.: 63s.13

Date: March 2016

- a. StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
- b. Sto Gold Fill® with StoGuard®
- Mesh ( joints  $\leq$  1/8 inch [3 mm])
- c. StoGuard® Fabric with StoGuard® air and moisture barrier
- ( joints ≤ 1/8 inch [3 mm])
- d. StoGuard® Tape
- ( joints  $\leq$  1/4 inch [6 mm])
- 2. StoGuard® air and moisture barrier options:
  - a. Sto Gold Coat® (vapor permeable)
  - b. Sto EmeraldCoat® (high perm)
  - c. Sto VaporSeal™(vapor impermeable)
  - d. Sto AirSeal™ (high perm)
    (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 5. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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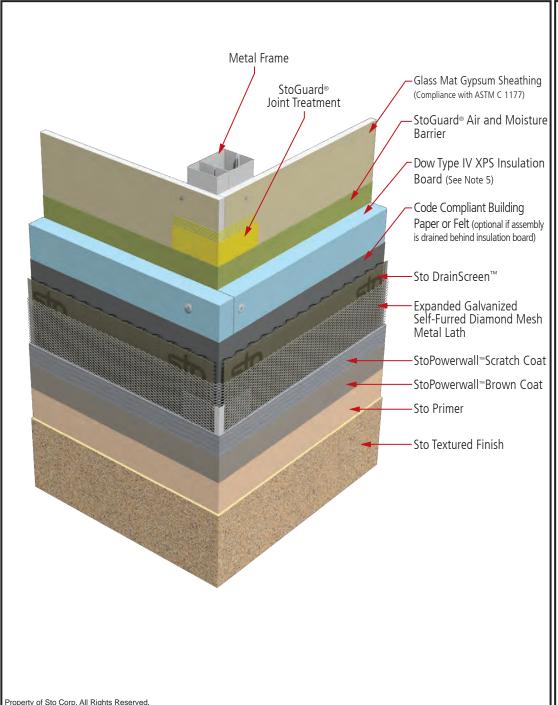
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# StoPowerwall®ci Outside Corner: Common Substrate



## Notes:

- 1. StoGuard® Joint Treatment options:
- a. StoGuard® RapidFill

Detail No.: 63s.14

Date: March 2016

- (joints  $\leq 1/4$  inch [6 mm])
- b. Sto Gold Fill® with StoGuard®
- Mesh (joints  $\leq 1/8$  inch [3 mm])
- c. StoGuard® Fabric with StoGuard® air and moisture barrier
- air and moisture parrier (joints  $\leq 1/8$  inch [3 mm])
- 2. StoGuard® air and moisture barrier options:
  - a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 5.Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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# Sto®Powerwall®ci Termination at Parapet

Cap Flashing Cap Attachment Cleat & Sealant Roof Membrane Dow Type IV XPS Insulation Blocking Board (See Note 5) StoGuard® Joint Treatment Code Compliant Building Paper or Felt (optional if assembly is drained behind insulation board) Glass Mat Gypsum Sheathing (Compliance with ASTM C 1177) Sto DrainScreen™ StoGuard® Air and Moisture Barrier Metal Frame Sto Textured Finish Sto Primer StoPowerwall<sup>1</sup> StoPowerwall™Scratch Coat **Brown Coat** with Expanded Galvanized Self-Furred Diamond Mesh Metal Lath

### **Notes:**

- 1. StoGuard® Joint Treatment options:
- a. StoGuard® RapidFill
- (joints  $\leq 1/4$  inch [6 mm])

Detail No.: 63s.15

Date: March 2015

- b. Sto Gold Fill® with StoGuard®
- Mesh (joints  $\leq 1/8$  inch [3 mm])
- c. StoGuard® Fabric with StoGuard® air and moisture barrier
- ( joints ≤ 1/8 inch [3 mm])
- 2. StoGuard® air and moisture barrier options:
  - a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal  $^{\scriptscriptstyle{\text{TM}}}$  (vapor impermeable)
- d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 5. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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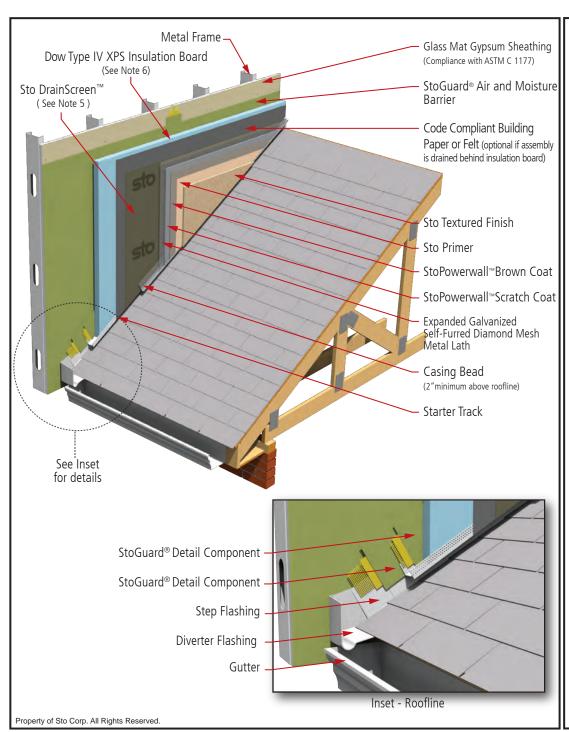
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## Sto®Powerwall®ci Roof/Wall Abutment



## **Notes:**

1. StoGuard® Detail Component options:

Detail No.: 63s.16

Date: March 2016

- a. StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
- b. Sto Gold Fill® with StoGuard®
- Mesh ( joints  $\leq$  1/8 inch [3 mm])
- c. StoGuard® Fabric with StoGuard® air and moisture barrier (joints ≤ 1/8 inch [3 mm])
- 2. StoGuard® air and moisture barrier options:
- a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal<sup>™</sup> (high perm) (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 5. Nominal ¼"(6 mm) gap defined by Sto DrainScreen™. Wrap Sto DrainScreen™ fabric around terminating edge to block insects.
- 6. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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# StoPowerwall®ci Saddle Flashing

StoGuard® Air and Moisture Glass Mat Gypsum Sheathing Metal Frame (Compliance with ASTM C 1177) Dow Type IV XPS Insulation StoGuard® Board (See Note 5) **Detail Component** Code Compliant Building Paper or Felt (optional if assembly is drained behind insulation board) Sto DrainScreen™ See Inset 1 Expanded Galvanized Self-Furred Diamond Mesh for details Metal Lath StoPowerwall™Scratch Coat StoPowerwall™Brown Coat Sto Primer Sto Textured Finish Weep Screed Saddle Flashing Assembly (see Page 2) Parapet Cap Flashing Barrier Membrane Casing Bead See Page 2 for StoGuard® Installation on Parapet details Inset 1 Casing Bead Backer Rod and Sealant Weep Track Accessory (termination of finish) Property of Sto Corp. All Rights Reserved.

Detail No.: 63s.17 Date: March 2016 Page 1 of 2

#### **Notes:**

- 1. StoGuard® Detail Component options:
- a. StoGuard® RapidFill
- b. Sto Gold Fill® with StoGuard® Mesh
- c. StoGuard® Fabric with StoGuard® air and moisture barrier
- 2. StoGuard® air and moisture barrier options:
- a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal<sup>™</sup> (high perm) (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 5. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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# StoPowerwall®ci Saddle Flashing

Step 1 Turnout Flanges (to match the thickness of the component layers to the finished surface plus 1/4" (6mm)) Upturned Flange Step 2 Glass Mat Gypsum Sheathing (Compliance with ASTM C 1177) Interlocking Legs StoGuard® Waterproof Air Barrier Membrane StoGuard® Joint Treatment IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction Property of Sto Corp. All Rights Reserved.

Detail No.: 63s.17 Date: March 2016 Page 2 of 2

#### Notes:

#### Step 1

- 1. Parapet flashing pieces 'B' and 'C' are folded as shown and are mirror images of each other. The flat upper portions are designed to overlap over the parapet wall and flat against the upper, intersecting wall. The folded turnouts are to match the thickness of the component layers to the finished surface plus 1/4" (6mm).
- 2. Parapet flashing piece 'A' is designed to straddle the parapet wall. The upturned flange is placed behind the upper flat flanges of flashing piece 'B' and 'C' and the two downturned legs interlock over the lower portions of the flashing pieces 'B' and 'C' respectively, in a shingle like fashion.

#### Step 2

- 1. StoGuard® Joint Treatment options:
  a. StoGuard® RapidSeal® with
  StoGuard® Mesh
  (joints ≤ 1/4 inch [6 mm])
  b. Sto Gold Fill® with StoGuard®
  Mesh (joints ≤ 1/8 inch [3 mm])
  c. StoGuard® Fabric with StoGuard®
  waterproof air barrier membrane
  (joints ≤ 1/8 inch [3 mm])
- 2. StoGuard® waterproof air barrier membrane options:
- a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507 for complete information on Sto products. Refer to StoGuard® Waterproof Air Barrier detail series 20.XX for information on detailing with StoGuard®.

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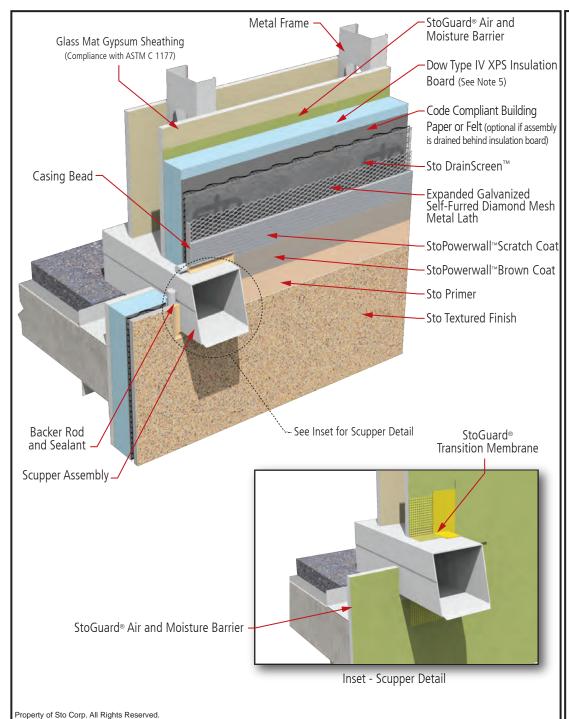
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# Sto®Powerwall®ci Scupper Penetration Through Wall



### **Notes:**

1. StoGuard® Detail Component options:

Detail No.: 63s.18

Date: March 2016

- a. StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
- 2. StoGuard® air and moisture barrier options:
  - a. Sto Gold Coat $^{\circ}$  (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal™ (high perm)
  (Not for use with Sto Guard Fabric)
- 3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 4. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 5. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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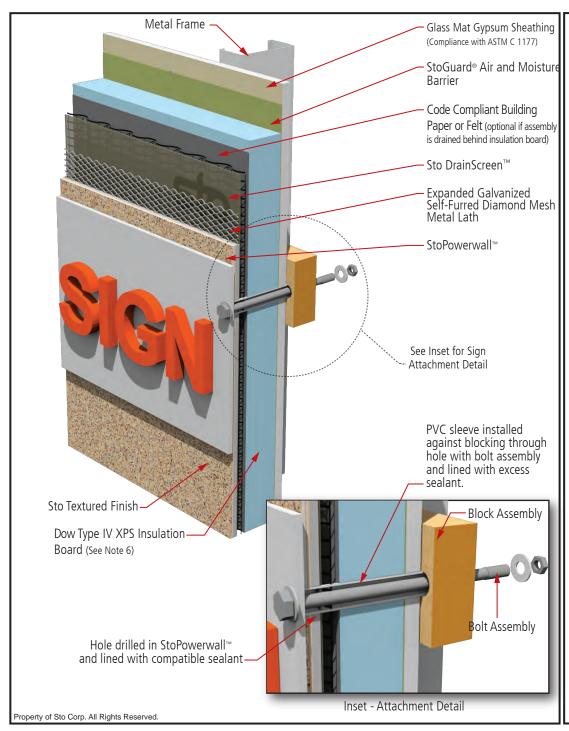
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# Sto®Powerwall®ci Sign Attachment



## **Notes:**

1. StoGuard® air and moisture barrier options:

Detail No.: 63s.19

Date: March 2016

- a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal<sup>™</sup> (high perm)
  (Not for use with Sto Guard Fabric)
- 2. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 5. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
- 6. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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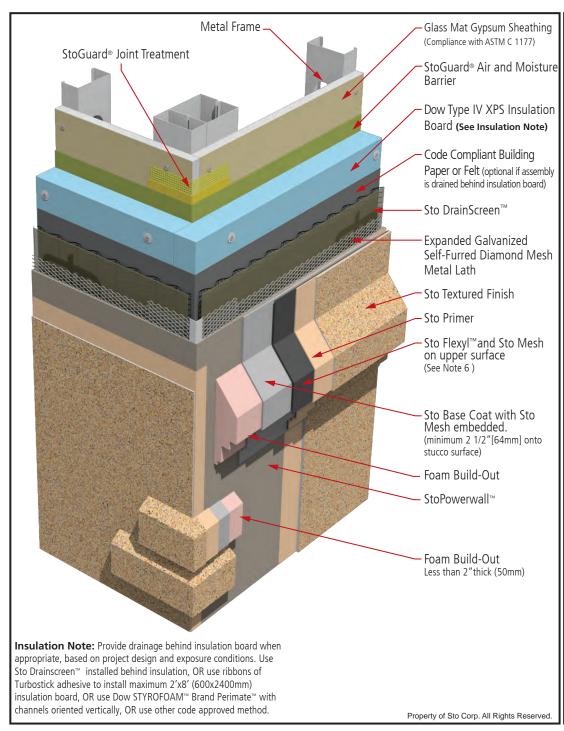
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## Sto®Powerwall®ci Foam Buildouts



#### Notes:

- 1. StoGuard® Joint Treatment options:
- a. StoGuard® RapidFill
- ( joints  $\leq 1/4$  inch [6 mm])

Detail No.: 63s.20

Date: March 2016

- b. Sto Gold Fill® with StoGuard®
- Mesh (joints  $\leq$  1/8 inch [3 mm])
- c. StoGuard® Fabric with StoGuard® air and moisture barrier (joints ≤ 1/8 inch [3 mm])
- 2. StoGuard® air and moisture barrier options:
  - a. Sto Gold Coat® (vapor permeable)
- b. Sto EmeraldCoat® (high perm)
- c. Sto VaporSeal™(vapor impermeable)
- d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)
- 3. The maximum thickness of foam plastic insulation allowed by code is typically 4" (100mm).
- 4. The exposed surface must have a minimum slope of 1:2 (27°). In locations where ice and snow may accumulate, increase the slope.
- 5. Provide Sto Flexyl<sup>™</sup> and mesh on upper surfaces of foam features projecting more than 2"(50mm) from the stucco surface. Feather edges into
- 6. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
- 7. IMPORTANT. Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction

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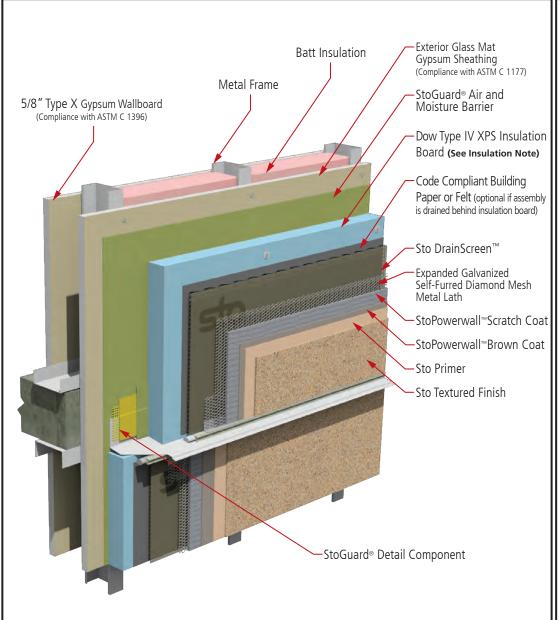
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## Sto Powerwall®ci

Fire Protection - Noncombustible Type Construction (NFPA 285) and 1 Hour Non-Load Bearing Fire-Resistive Rated Wall Assembly (ASTM E 119)



Insulation Note: Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2′x8′ (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

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#### **Notes:**

1. Interior Wallboard: minimum 5/8" (16mm) gypsum wallboard in compliance with ASTM C 1396.

Detail No.: 63s.FP

Date: March 2016

- 2. Structure: Minimum 18 ga studs, minimum 3-5/8" stud depth, maximum 16" O.C. stud spacing.
- 3. Floorline Firestopping: if Platform type framing none; if Balloon type framing minimum 4 pcf mineral wool in each stud cavity and at each floor line, attached with Z-clips or equivalent.
- 4. Stud Cavity Insulation: none, or any noncombustible batt insulation, faced or unfaced.
- 5. Continuous Insulation: DOW Styroform™ Brand Perimate™ (Drainge Channels Face Interior), (Type IV XPS) maximum 3" (76 mm) thick.
- 6. Exterior Sheathing: minimum 1/2" (51 mm) glass mat gypsum sheathing in compliance with ASTM C 1177. Joints treated with StoGuard® joint treatment.
- 7. Air Barrier Options: StoGuard with EmeraldCoat, Sto Guard with Gold Coat, or Sto ExtraSeal.
- 8. WRB (Water-resistive Barrier): none, or No. 15 Grade D Building Paper, or Asphalt Saturated Felt in compliance with ASTM D 226.
- 9. Cavity Wall Component: Sto DrainScreen™
- 10. Stucco Assembly: minimum 2.5# self-furred galvanized diamond mesh metal lath with stucco scratch and brown coat in compliance with ASTM C 926 at minimum 3/4"(19 mm) thick.
- 11. Openings: return stucco into openings at jambs and head minimum 1 inch (25 mm) past back of insulation board (Refer to Sto Detail 63s.05).

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