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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

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

**Notes:**

1. StoGuard® Air & 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)

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:** Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

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**Sto®Powerwall®ci**

**Termination at Grade: Sheathing Flush with Foundation**

**Date:** March 2016

**Detail No.: 63s.02**

**Notes:**

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

2. **StoGuard®** Transition Membrane Options:
   - StoGuard® RaidSeal® with StoGuard®
     Mesh
   - Sto Gold Fill with StoGuard®
     Mesh

3. **StoGuard®** air and moisture barrier options:
   - Sto Gold Coat® (vapor permeable)
   - Sto EmeraldCoat® (high perm)
   - Sto VaporSeal™ (vapor impermeable)
   - 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).

**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.

**Inset - Ground Clearance**

1” Min.

4” Min.
Sto®Powerwall®ci
Termination at Grade: Sheathing over Foundation

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. 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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Step 1
Apply StoGuard® air and moisture barrier liberally at corners of rough openings and place StoGuard® RediCorners™ in wet membrane. Use brush, roller, trowel or taping knife to fully embed StoGuard® RediCorner™.

Step 2
Immediately apply StoGuard® air and moisture 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 2” (50 mm) overlaps of adjacent fabric. Use brush, roller, trowel or taping knife to fully embed.
**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.

**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™ (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

**Notes:**
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. 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

Notes:
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. 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 5 507 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

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™ (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 Head/Jamb

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   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™ (vapor impermeable)
   d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)

3. Refer to product bulletins and Sto Specification S507x 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.

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

Inset 2 - Head & Jamb Detail
with Sto Textured Finish

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™ (vapor impermeable)
   d. Sto AirSeal™ (high perm) (Not for use with Sto Guard Fabric)

3. Refer to product bulletins and Sto Specification S507x 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.

www.stocorp.com
**Inset 3 - Sill & Jamb Detail**
without Sto Textured Finish

**Notes:**

1. **StoGuard® joint treatment options:**
   - StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
   - Sto Gold Fill® with StoGuard® Mesh (joints ≤ 1/8 inch [3 mm])
   - StoGuard® Fabric with StoGuard® waterproof air barrier membrane (joints ≤ 1/8 inch [3 mm])

2. **StoGuard® air and moisture barrier options:**
   - Sto Gold Coat® (vapor permeable)
   - Sto EmeraldCoat® (high perm)
   - Sto VaporSeal™ (vapor impermeable)
   - 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.
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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. 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 63.5.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 Perimize™ with channels oriented vertically, OR use other code approved method.

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**StoPowerwall®ci**

**Floorline without Deflection Track**

**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™ (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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Sto®Powerwall®ci
Floorline with Deflection Track

Detail No.: 63s.09
Date: March 2016

Notes:
1. StoGuard® Detail Component options:
   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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StoPowerwall®ci
Horizontal Joint at Dissimilar Material

Detail No.: 63s.10
Date: March 2016

StoGuard® Air and Moisture Barrier
Glass Mat Gypsum Sheathing (Compliance with ASTM C 1177)
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
Backer Rod and Sealant with weeps
Casing Bead
Flashing

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™ (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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**StoPowerwall®ci**

**Vertical Joint at Dissimilar Material**

**Notes:**

1. **StoGuard® Joint Treatment options:**
   - StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
   - Sto Gold Fill® with StoGuard® Mesh (joints ≤ 1/8 inch [3 mm])
   - StoGuard® Fabric with StoGuard® air and moisture barrier (joints ≤ 1/8 inch [3 mm])

2. **StoGuard® air and moisture barrier options:**
   - Sto Gold Coat® (vapor permeable)
   - Sto EmeraldCoat® (high perm)
   - Sto VaporSeal™ (vapor impermeable)
   - 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 63P 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
Vertical Joint at Inside Corner: Common Substrate

**Details:**
- **Glass Mat Gypsum Sheathing** (Compliance with ASTM C 1177)
- **Dow Type IV XPS Insulation Board** (See Note 5)
- **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**

**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. **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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StoPowerwall®ci
Vertical Joint at Inside Corner: Different Substrate

**Notes:**
1. StoGuard® Detail Component options:
   a. StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
   b. Sto Gold Fill® with StoGuard® Mesh (joints ≤ 1/8 inch [3 mm]), StoGuard® Fabric with StoGuard® air and moisture barrier (joints ≤ 1/8 inch [3 mm])
   c. StoGuard® Tape (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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### StoPowerwall®ci
**Outside Corner: Common Substrate**

**Detail No.: 63s.14**
**Date: March 2016**

**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. **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

Detail No.: 63s.15
Date: March 2015

Notes:
1. StoGuard® Joint Treatment options:
   a. StoGuard® RapidFill
      (for joints ≤ 1/4 inch [6 mm])
   b. Sto Gold Fill® with StoGuard®
      Mesh (for joints ≤ 1/8 inch [3 mm])
   c. StoGuard® Fabric with StoGuard®
      air and moisture barrier
      (for 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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Sto®Powerwall®ci
Roof/Wall Abutment

Detail No.: 63s.16
Date: March 2016

Notes:
1. StoGuard® Detail Component 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. 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. 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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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™ (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**

**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®.

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
Scupper Penetration Through Wall

Detail No.: 63s.18
Date: March 2016

Notes:
1. StoGuard® Detail Component options:
   a. StoGuard® RapidFill (joints ≤ 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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Sto®Powerwall®ci
Sign Attachment

Glass Mat Gypsum Sheathing (Compliance with ASTM C 1177)
StoGuard® Air and Moisture Barrier
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™

See Inset for Sign Attachment Detail

PVC sleeve installed against blocking through hole with bolt assembly and lined with excess sealant.

Sto Textured Finish
Dow Type IV XPS Insulation Board (See Note 6)

Hole drilled in StoPowerwall™ and lined with compatible sealant

Inset - Attachment Detail

Notes:
1. 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)

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.

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.

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Sto®Powerwall®ci Foam Buildouts

**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.

**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. **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™ and mesh on upper surfaces of foam features projecting more than 2” (50mm) from the stucco surface. Feather edges into stucco.

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

**Notes:**
1. Interior Wallboard: minimum 5/8" (16mm) gypsum wallboard in compliance with ASTM C 1396.
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™ (Draining Channels Face Interior), (Type IV XPS) maximum 3" (76 mm) thick.
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).

**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 Turbolock 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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