IX. Construction Details

A. Floor and Roof Panels Page IX-3
B. Non-Load Bearing Wall Panels / Wall Panel Connections Page IX-12
C. Load Bearing Vertical Wall Panels Page IX-34
D. Blocks and Lintels Page IX-39
E. Interior Wall Partitions Page IX-47
F. Electrical / Plumbing Installation Page IX-51
A. Floor and Roof Panels

Floor and Roof Sections

- Exterior Wall Section with AERCON Block
- Interior Wall Section with AERCON Block
- Sections with Concrete Beam
- Sections with Steel Beam
- Floor and Roof Panel Opening Details

Architectural Details

- Roof Drain, Parapet and Scupper Details
- Skylight and Pipe Penetration Details
- Ceiling and Mechanical Details
AERCON
Floor/Roof Panels

1. Cored AERCON Block
2. AERCON Clean-Out Block
3. AERCON Floor/Roof Panel
4. AERCON Compatible Coating w/Mesh at Discontinuities
5. Fill Clean-Out Block Opening with AERCON Repair Mortar
6. Rebar
7. 2 Layers of Felt Paper
8. Rebar
9. Bond Beam w/Reinforcing Bars
10. AERCON Interior Wall Plaster or Gypsum Board
11. Rebar
12. 3/8"± Mortar Bed
13. Reinforcing Bar in Grout Filled Key Joint
14. Gypsum Board
AERCON Floor/Roof Panels

1. AERCON Block
2. AERCON Floor/Roof Panel
3. AERCON Interior Wall Plaster or Gypsum Board
4. Dowel
5. 2 Layers of Felt Paper
6. Reinforcing Bar in Grout Filled Key Joint
7. Bond Beam w/Reinforcing Bar
8. 3/8" ± Mortar Bed
9. Gypsum Board

Interior Wall Section

1/2" TYPICAL
AERCON
Floor/Roof Panels

1. AERCON Block
2. AERCON Floor/Roof Panel
3. AERCON Compatible Coating w/Mesh at Discontinuities
4. AERCON Interior Wall Plaster or Gypsum Board
5. Concrete Beam
6. Dowel as Required
7. 2 Layers of Felt Paper
8. Reinforcing Bar in Grout Filled Key Joint
9. Bond Beam w/Reinforcing Bars
10. 3/8" ± Mortar Bed
11. Gypsum Board
AERCON Floor/Roof Panels

1. AERCON Block or Wall Panel
2. AERCON Floor/Roof Panel
3. AERCON Compatible Coating
4. AERCON Interior Wall Plaster or Gypsum Board
5. 2 Layers of Felt Paper
6. Polystyrene
7. Reinforcing Bar in Grout Filled Key Joint
8. Bond Beam w/Reinforcing Bars
9. Steel Beam w/Shear Studs

Perimeter Steel Beam Section

Interior Steel Beam Section

Interior Steel Beam Section
AERCON
Floor/Roof Panels

1. AERCON Floor/Roof Panel
2. Steel Support Frames
3. 2 Layers of Felt Paper
4. Concrete Beam
5. Steel Header
6. Bond Beam

Opening Detail with Steel Support Frame

Opening Detail with Steel Headers
AERCON Architectural Details

1. AERCON Roof Panel
2. AERCON Wall Panel
3. Single Ply or Built-Up Roofing
4. Drain Cap-Dome Strainer & Roof Drain
5. PVC Connector
6. Fastener
7. Metal Coping With Continuous Cleats Each Side
8. Parapet Flashing
9. Aluminum Clad Flashing Membrane
10. Fiber Cant
11. Elastomeric Sealant Continuous
12. Aluminum Anchorage Collar Soldered to Scupper – Both Sides
13. Aluminum Thru-Wall Scupper
14. Gravel Stop
15. Parapet Flashing Shall Be Torched on. Base Ply Parapet Flashing to Continue Over Top of Parapet

Roof Drain Detail

Parapet Detail

Emergency Overflow Scupper Detail
AERCON
Architectural Details

1. AERCON Floor/Roof Panel
2. Single Ply or Built-Up Roofing
3. Skylight
4. Skylight Frame
5. Skylight Fastener
6. Steel Header
7. Mounting Flange
8. AERCON Roof Panel Beyond
9. Pipe
10. Fastener
11. Floor/Roof System
12. Trim Collar

Skylight Detail

Pipe Penetration Detail
**AERCON Architectural Details**

1. AERCON Floor/Roof Panel
2. Floor/Roof System
3. Fastener
4. Hanger Wire
5. Ductwork
6. Channel Support
7. Recessed Light Fixture Unit
8. Suspended Ceiling
9. Pipe Support
10. Clevis or Strap Hanger
11. Header Pipe
12. Channel Fastened To Panel

---

**Suspended Ductwork Detail**

**Suspended Acoustical Tile Ceiling Detail**

**Suspended Plumbing Detail**
B. Non-Load Bearing Wall Panels / Wall Panel Connections

Horizontal Non-Load Bearing Wall Panels

- Interior Column Detail
- Parapet Detail
- Window Opening Detail
- Door Opening Detail
- Overhead Door Opening Detail
- Corner Column Detail
- Interior Column Detail with Channel Clamp
- Corner Column Details
- Architectural Window Opening Details

Vertical Non-Load Bearing Wall Panels

- Parapet Detail
- Intermediate Beam and Window Opening Detail
- Fire Wall Detail

Foundation Details

- Monolithic Slab
- Monolithic Slab with Concrete Curb
- Stemwall
- Stemwall with Concrete Curb

Wall Panel Connections

- Wall Plate Anchors
AERCON
Horizontal Wall Panels

1. AERCON Horizontal Wall Panel
2. Steel Column
3. Concrete Column
4. Expansion Joint
5. Wall Plate Anchor
6. Anchor Rail Embedded in Concrete Column
7. Trim Tongue for Wall Plate Anchor Installation
AERCON Horizontal Wall Panels

1. AERCON Horizontal Wall Panel
2. Steel Column
3. Concrete Column
4. Steel “T” Section Welded to Embedded Steel Plate
5. Anchor Rail Welded to Steel Column
6. Anchor Rail Embedded in Concrete Column
7. Anchor Rail Welded to Steel “T” Section
8. Field Rout Wall Panel to Allow Installation of Anchor Rail and Wall Plate Anchor
9. Steel “T” Section Welded to Steel Column
10. Wall Plate Anchor
11. Single Ply or Built-Up Roof
12. Parapet Flashing
13. Trim Tongue for Wall Plate Anchor Installation
AERCON Horizontal Wall Panels

1. AERCON Horizontal Wall Panel
2. AERCON Mortar
3. Wall Plate Anchor
4. Anchor Rail Embedded In Concrete Column
5. Expansion Joint
6. Concrete Column
7. Trim Tongue For Wall Plate Anchor Installation

Window Opening Detail

Wall Plate Anchor Detail

Section A-A (Along Jamb Only)
AERCON Horizontal Wall Panels

1. AERCON Horizontal Wall Panel
2. Steel Frame
3. Field Rout As Required
4. Sealant Continuous. All Vertical and Horizontal Joints to be Sealed
5. Grout
**AERCON Horizontal Wall Panels**

1. AERCON Horizontal Wall Panel
2. Steel Frame
3. Field Rout As Required
4. Sealant Continuous. All Vertical and Horizontal Joints to be Sealed
5. Grout

---

**Overhead Door Opening Detail**

**Jamb Detail**

1. 
2. 
3. 
4. 
5. 

**Jamb Detail**

1. 
2. 
3. 
4. 
5.
AERCON Horizontal Wall Panels

1. AERCON Horizontal Wall Panel
2. Steel Column
3. Concrete Column
4. Steel Angle Attached to Column
5. Anchor Rail Embedded in Concrete Column
6. Wall Plate Anchor
7. Expansion Joint
8. Trim Tongue for Wall Plate Anchor Installation
AERCON Horizontal Wall Panels

1. AERCON Horizontal Wall Panel
2. Continuous Sealant
3. Aluminum Channel Clamp
4. Steel Column
5. Anchor Rail Welded to Steel Column
6. Field Rout Wall Panel For Anchor Rail
7. Expansion Joint
8. Threaded Rod

Interior Column Detail with Channel Clamp

Steel Column Detail

Channel Clamp Detail
AERCON Horizontal Wall Panels

1. AERCON Horizontal Wall Panel
2. Wall Plate Anchor
3. Steel Column
4. Concrete Column
5. Expansion Joint
6. Anchor Rail Embedded in Concrete Column
7. Anchor Rail Welded to Steel Angle
8. Steel Angle Welded to Steel Column
9. Trim Tongue for Wall Plate Anchor Installation
10. Anchor Rail Welded to Steel Column
11. Strap Anchor
12. AERCON Corner Panel
13. Powder Actuated Fasteners
14. Concrete Fasteners
Architectural Window Opening Details

Sill Detail

Jamb Detail

Head Detail

1. AERCON Wall Panel
2. Glazing
3. Fastener
4. Gypsum Board
5. AERCON Compatible Coating
6. Hollow Metal Frame
7. Masonry Anchor - Coordinate Location With Panel Joints
8. Grout Filled Hollow Metal Wrap Around Frame
AERCON Vertical Wall Panels

1. AERCON Vertical Wall Panel
2. Wall Plate Anchor
3. Anchor Rail Embedded in Concrete Beam
4. Trim Tongue for Wall Plate Anchor Installation
5. Concrete Beam
6. Single Ply or Built-Up Roofing
7. Parapet Flashing
8. Rout Wall Panel at Anchor Rail
9. Anchor Rail Welded to Steel Beam
10. Steel Column

Parapet Detail

Parapet with Concrete Beam Detail

Parapet with Steel Column Detail
AERCON
Vertical Wall Panels

1 AERCON Vertical Wall Panel
2 Trim Tongue for Wall Plate Anchor Installation
3 Wall Plate Anchor
4 Steel Beam
5 Steel Support Angle Attached to Steel Beam
AERCON Vertical Wall Panels

1. AERCON Vertical Wall Panel
2. Concrete Slab
3. 3/8" ± Mortar Joint
4. Fire-Rated Joint System
5. Wall Strap Anchor

Fire Wall Detail

Floor to Floor Section

Vertical Wall Panel Details

PLAN VIEW W/ FLAT MORTARED JOINTS
(CHAMFERS OPTIONAL)

PLAN VIEW W/ TONGUE & GROOVE JOINTS
AERCON Foundation Details

1. AERCON Horizontal Wall Panel
2. 3/8" Mortar Bed
3. CMU Stemwall
4. Reinforced Concrete Slab
5. Turndown Concrete Slab
6. Continuous Concrete Curb
<table>
<thead>
<tr>
<th>Part No.</th>
<th>69 913</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Thickness:</td>
<td>8&quot; - 12&quot;</td>
</tr>
</tbody>
</table>
| Min Edge Distance: | a = 5 1/8"  
|                | b = 1 3/4" |
| Allowable Load (Including 1/3 Increase for Wind): | AC3.3: 540 lbs  
|                | AC4.4: 675 lbs |
|              | (Per Anchor) | (Per Anchor) |
| Manufacturer Reference: | FIXINOX |

<table>
<thead>
<tr>
<th>Part No.</th>
<th>69 910</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Thickness:</td>
<td>5&quot; - 6&quot;</td>
</tr>
</tbody>
</table>
| Min Edge Distance: | a = 4"  
|                | b = 1 3/4" |
| Allowable Load (Including 1/3 Increase for Wind): | AC3.3: 325 lbs  
|                | AC4.4: 415 lbs |
|              | (Per Anchor) | (Per Anchor) |
| Manufacturer Reference: | FIXINOX |
IX - Construction Details

Part No.: 70 817
Anchor Rail: 38/17
Panel Thickness: 8" - 12"
Min Edge Distance: a = 5 3/4"  
                    b = 2 9/16"
Allowable Load (Including AC3.3/AC4.4 1/3 Increase for Wind): 570 lbs 675 lbs (Per Anchor)
Manufacturer Reference: FIXINOX

Part No.: 70 815
Anchor Rail: 28/15
Panel Thickness: 8" - 12"
Min Edge Distance: a = 5 3/4"  
                    b = 2 9/16"
Allowable Load (Including AC3.3/AC4.4 1/3 Increase for Wind): 525 lbs (Per Anchor)
Manufacturer Reference: FIXINOX
Part No.: 68 817
Anchor Rail: 38/17
Panel Thickness: 8" - 12"
Min Edge Distance: a = 5 3/4"  
b = 1 3/4"
Allowable Load (Including AC3.3 AC4.4 1/3 Increase for Wind): 810 lbs 1050 lbs
Manufacturer Reference: FIXINOX

Part No.: 68 815
Anchor Rail: 28/15
Panel Thickness: 8" - 12"
Min Edge Distance: a = 5 3/4"  
b = 1 3/4"
Allowable Load (Including AC3.3 AC4.4 1/3 Increase for Wind): 810 lbs 1050 lbs
Manufacturer Reference: FIXINOX
**IX - Construction Details**

**Part No.:** 67 817
**Anchor Rail:** 38/17
**Panel Thickness:** 8" - 12"
**Min Edge Distance:**
- a = 3 15/16"
- b = 2 3/8"
**Allowable Load (Including AC3.3 AC4.4 1/3 Increase for Wind):** 1080 lbs (per anchor) 1515 lbs (per anchor)
**Manufacturer Reference:** FIXINOX

**Part No.:** 67 815
**Anchor Rail:** 28/15
**Panel Thickness:** 8" - 12"
**Min Edge Distance:**
- a = 3 15/16"
- b = 2 3/8"
**Allowable Load (Including AC3.3 AC4.4 1/3 Increase for Wind):** 1050 lbs (per anchor)
**Manufacturer Reference:** FIXINOX
### IX - Construction Details

**Part No.: 68 817**
- Anchor Rail: 38/17
- Panel Thickness: 8” - 12"
- Min Edge Distance: a = 5 3/4”
- b = 1 3/4”
- Allowable Load (Including AC3.3 AC4.4 1/3 Increase for Wind): 810 lbs 1050 lbs
- Manufacturer Reference: FIXINOX

**Part No.: 68 815**
- Anchor Rail: 28/15
- Panel Thickness: 8” - 12"
- Min Edge Distance: a = 5 3/4”
- b = 1 3/4”
- Allowable Load (Including AC3.3 AC4.4 1/3 Increase for Wind): 810 lbs 1050 lbs
- Manufacturer Reference: FIXINOX
**IX - Construction Details**

**Part No.:** 70 817  
**Anchor Rail:** 38/17  
**Panel Thickness:** 8" - 12"  
**Min Edge Distance:**  
  a = 5 3/4"  
  b = 2 9/16"  
**Allowable Load (Including AC3.3/AC4.4 1/3 Increase for Wind):**  
  570 lbs (Per Anchor)  
  675 lbs (Per Anchor)  
**Manufacturer Reference:** FIXINOX

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**Part No.:** 70 815  
**Anchor Rail:** 28/15  
**Panel Thickness:** 8" - 12"  
**Min Edge Distance:**  
  a = 5 3/4"  
  b = 2 9/16"  
**Allowable Load (Including AC3.3/AC4.4 1/3 Increase for Wind):**  
  525 lbs (Per Anchor)  
**Manufacturer Reference:** FIXINOX
### IX - Construction Details

#### Part No.: 67 817
- **Anchor Rail:** 38/17
- **Panel Thickness:** 8" - 12"
- **Min Edge Distance:**
  - $a = 3\,\frac{15}{16}$
  - $b = 2\,\frac{3}{8}$
- **Allowable Load (Including AC3.3, AC4.4, 1/3 Increase for Wind):**
  - 1080 lbs (per anchor)
  - 1515 lbs (per anchor)
- **Manufacturer Reference:** FIXINOX

#### Part No.: 67 815
- **Anchor Rail:** 28/15
- **Panel Thickness:** 8" - 12"
- **Min Edge Distance:**
  - $a = 3\,\frac{15}{16}$
  - $b = 2\,\frac{3}{8}$
- **Allowable Load (Including AC3.3, AC4.4, 1/3 Increase for Wind):**
  - 1050 lbs (per anchor)
- **Manufacturer Reference:** FIXINOX
**Grouted Key Joint Connection**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Panel Thickness</th>
<th>Min Bearing Length</th>
<th>Allowable Load (Including 1/3 Increase for Wind)</th>
<th>Manufacturer Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8&quot;</td>
<td>2&quot;</td>
<td>AC4/AC4.4</td>
<td>GENERIC</td>
</tr>
<tr>
<td></td>
<td>10&quot;</td>
<td>2&quot;</td>
<td>AC4/AC4.4</td>
<td>GENERIC</td>
</tr>
<tr>
<td></td>
<td>1000 lbs/ft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1200 lbs/ft</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Steel Bracket Connection at Gable Wall**

- **Panel Thickness:** 6" - 12"
- **Min Bearing Length:** $c = \text{Calculation based on Allowable Bearing Stress} = 60 \text{ psi (AC4)}$
- **Allowable Load:** By Design
- **Manufacturer Reference:** GENERIC
C. Load Bearing Vertical Wall Panels

Load Bearing Vertical Wall Panels

- Load Bearing Vertical Wall Panel System
- Wall Section with Roof Panels
- Wall Elevation at Window
AERCON Vertical Wall Panels

1. AERCON Vertical Wall Panel
2. AERCON Compatible Coating w/Mesh at Discontinuities
3. AERCON Floor Panel (Perpendicular to Wall)
4. 1/8" AERCON Mortar Bed
5. Dowel (Drill and Epoxy as Required)
6. 2 Layers of Felt Paper
7. Reinforcing Bar in Grout Filled Key Joint
8. Bond Beam w/Reinforcing Bars
9. AERCON Interior Wall Plaster or Gypsum Board
10. Gypsum Board

Load Bearing Vertical Wall System

Interior Bearing Wall

Exterior Bearing Wall

1/2"
AERCON Vertical Wall Panels

1. AERCON Vertical Wall Panel
2. 3/8” Mortar Bed
3. Wall Footing
4. Interior Finish
5. AERCON Interior Wall Plaster or Gypsum Board
6. Truss Anchor
7. Gypsum Board
8. Roof Truss
9. 2 X 8 Treated Wood Plate
10. AERCON Compatible Coating

Wall Section with Roof Truss

Notes:
1. Use AERCON Mortar at all vertical joints between panels.
2. Immediately after erection install minimum of (2) corrugated nails per panel joint.

Foundation Detail

Truss Connection Detail
AERCON Vertical Wall Panels

1. AERCON Roof Panel
2. AERCON Vertical Wall Panel
3. AERCON Block Parapet Wall
4. 3/8" ± Mortar Bed
5. 2 Layers of Felt Paper
6. Dowel (Drill and Epoxy as Required)
7. Reinforcing Bar in Grout Filled Key Joint
8. Bond Beam w/Reinforcing Bars
9. Reinforced Concrete Slab
10. Interior Finish
11. 1/8" ± AERCON Mortar Bed
12. Gypsum Board
13. AERCON Interior Wall Plaster or Gypsum Board
14. AERCON Compatible Coating w/Mesh at Discontinuities
15. Parapet Flashing
16. Fastener
AERCON Vertical Wall Panels

1. AERCON Roof Panel
2. AERCON Lintel Panel
3. AERCON Sill Panel
4. AERCON Block
   Parapet Wall
5. Pre-Cast Concrete Sill
6. 2 Layers of Felt Paper
7. Dowel (Drill and Epoxy as Required)
8. Reinforcing Bar in Grout
   Filled Key Joint
9. Bond Beam w/Reinforcing Bars
10. 3/8" ± Mortar Bed
11. Gypsum Board
12. AERCON Interior Wall
    Plaster or Gypsum Board
13. AERCON Compatible
    Coating w/Mesh at Discontinuities
14. Window

Wall Elevation at Window

Section Thru Lintel

Section Thru Sill
D. Blocks and Lintels

Exterior Walls

Single Story Walls

- Exterior Wall with Tie-Down in Core
- Exterior Wall with Door Opening
- Exterior Wall with Window Opening

Two Story Walls

- Exterior Wall with Steel Bar Joists
- Exterior Wall with Wood “I” Floor Joists

Foundation Details

- Monolithic Slab with Foundation Anchor
- Stemwall with Foundation Anchor
- Existing Monolithic Slab with Epoxied Anchor
- Monolithic Slab with J-Bolt

Wall Tie-Down Details

- Plaster over Tie-Down in Chase
- Furred Gypsum over Tie-Down in Chase
- Tie-Down in Core
- Brick Veneer with Gypsum Board over Tie-Down in Chase
AERCON

Exterior Wall

1. Cored AERCON Block
2. Concrete Filled AERCON “U” Lintel w/Reinforcing
3. AERCON Clean-Out Block
4. Reinforced Concrete Slab
5. Epoxy
6. Rebar
7. 3/8” ± Mortar Bed
8. Rebar
9. Rebar
10. Roof Truss
11. Truss Anchor
12. AERCON Interior Wall
   Plaster or Gypsum Board
13. Gypsum Board
14. Brick Ties
15. Clay or Concrete Brick Veneer
16. Fill Clean-Out Block Opening with AERCON Repair Mortar
17. Flashing
18. Membrane Waterproofing
19. Grout Fill
20. Weep Holes

Note:
Core must then be grouted.

Foundation

Bond Beam
**AERCON Exterior Wall**

1. Concrete Filled AERCON “U” Lintel w/Reinforcing

2. AERCON Block

3. Concrete Filled AERCON “U” Lintel w/ Reinforcing or AERCON Reinf. Solid Lintel

4. Door Head

5. Door Jamb

6. Exterior Door

7. Threshold

8. Reinforced Concrete Slab

9. Roof Truss

10. Truss Anchor

11. AERCON Interior Wall Plaster or Gypsum Board

12. Gypsum Board

13. AERCON Compatible Coating

14. Fasteners

15. Pressure Treated Buck Strip
AERCON

Exterior Wall

1. Concrete Filled AERCON “U” Lintel w/Reinforcing
2. AERCON Block
3. Concrete Filled AERCON “U” Lintel w/ Reinforcing or AERCON Reinf. Solid Lintel
4. Reinforced Concrete Slab
5. 3/8” ± Mortar Bed
6. Window
7. Roof Truss
8. Truss Anchor
9. AERCON Interior Wall Plaster or Gypsum Board
10. Corner Bead
11. Pressure Treated Buck Strip
12. Interior Window Sill
13. Pre-Cast Concrete Sill
14. Gypsum Board
15. AERCON Compatible Coating
16. AERCON or Styrofoam Insulation
AERCON

Exterior Wall

1. AERCON Block
2. Concrete Filled AERCON “U” Lintel w/Reinforcing
3. Gypsum Board
4. Reinforced Concrete Slab
5. 3/8" Mortar Bed
6. Bearing Plate w/Shear Studs
7. AERCON Interior Plaster or Gypsum Board
8. Steel Bar Joist
9. Bond Beam w/Reinforcing Bars
10. AERCON Compatible Coating w/Mesh at Discontinuities
11. Steel Angle
12. Welded Wire Fabric
13. Concrete on Metal Deck
14. Truss Anchor
15. Roof Truss

Bond Beam Detail

Joist Bearing Detail

Foundation Detail

Wall Section
AERCON - Exterior Wall

1. Cored AERCON Block
2. Concrete Filled AERCON “U” Lintel w/Reinforcing
3. AERCON Clean-Out Block
4. AERCON Compatible Coating w/Mesh at Discontinuities
5. Reinforced Concrete Slab
6. Epoxy
7. Rebar
8. Rebar
9. Rebar
10. Joist Hanger
11. 2”x Pressure Treated Ledger
12. Anchor Bolt
13. Wood Blocking
14. 3/8” ± Mortar Bed
15. Wood “I” Joist
16. Floor Decking
17. Roof Truss
18. Truss Anchor
19. AERCON Interior Wall Plaster or Gypsum Board
20. Gypsum Board
21. Fill Clean-Out Block Opening with AERCON Repair Mortar

Note: Reinforcing bar can be used instead of threaded rod. Cores must then be grouted.

Elevated Floor Details

Ring Beam Detail (Perpendicular)

Ring Beam Detail (Parallel)
Monolithic Slab w/ Foundation Anchor

1. AERCON Clean-Out Block
2. Cored AERCON Block
3. CMU Stemwall
4. Reinforced Concrete Slab
5. J-Bolt Cast in Place
6. Foundation Anchor
7. Rebar
8. Rebar
9. Rebar
10. 3/8” ± Mortar Bed
11. AERCON Interior Wall Plaster or Gypsum Board
12. AERCON Compatible Coating
13. Fill Clean-Out Block Opening with AERCON Repair Mortar

Existing Monolithic Slab w/ Epoxied Anchor

Note: Reinforcing bar can be used instead of threaded rod. Cores must then be grouted.
AERCON Wall Details

1. AERCON Block
2. Cored AERCON Block
3. Rebar
4. Block Core
5. Interior Finish
6. AERCON Interior Wall Plaster
7. AERCON Compatible Coating
8. Pressure Treated Furring Strips
9. Gypsum Board
10. Clay or Concrete Brick Veneer

Plaster Over Chase

Furred Gypsum

Cored Block

Brick Veneer
E. Interior Wall Partitions

**Interior Walls**

- Wall Partition Detail
- Door Lintel
- Partition Joints
AERCON

Partitions

1. AERCON 4” x 24” x 24”
2. Aercon 8” x 8” x 24” Block
3. Roof Truss
4. 2” x 4” Nailer @ 24” O.C. (max.)
5. Metal Corner Bead Used for Lateral Support
6. 1/2” Styrofoam
7. Temporary Bracket (as required)
8. Temporary Wedges to Raise and Support Block
9. Drypack Mortar
   Note: When Drypack Mortar has Cured, Remove Wedges and Fill Voids with Mortar
10. Gypsum Board
11. AERCON Interior Wall Plaster or Gypsum Board
12. Mortar Joint
Door Lintel

AERCON
Partitions

1. AERCON 4"x24"x24" Block
2. AERCON Lintel Partition
3. L-Bracket
4. 1/4" Wide Joint w/ Polyurethane Foam
5. Mortar Joint

Lintel to Partition

Lintel to Partition (Expansion Joint)
AERCON Partitions

1. AERCON Partition
2. AERCON Interior Block Wall
3. 1/4" Wide Joint w/ Polyurethane Foam Fill
4. Mortar Joint
5. AERCON Interior Wall Plaster or Gypsum Board
F. Electrical / Plumbing Installation

**Electrical Installation**
- Plaster Finish over Electrical
- Gypsum Board on Furring Strips over Electrical
- Gypsum Board over Electrical

**Plumbing Installation**
- Plumbing Chase

**Cabinet Section**
- Cabinet Section

**Fastening Details**
- Exterior Door Jamb
- Interior Door Jamb
- Window Jamb
- Interior Trim
- Interior Framing Connection
- Garage Door Jamb
Electrical Installation

1. AERCON Block Wall
2. AERCON Partition
3. 1 1/2" Deep Electrical Chase
4. Romex Wire
5. Backer Rod
6. Electrical Outlet Box
7. AERCON Interior Wall Plaster
8. Pressure Treated Furring Strips
9. Gypsum Board
10. Metal Plates

Electrical w/ Plaster

Electrical w/ Gypsum Board on Furring

Electrical w/ Gypsum Board
Plumbing Chase

1. AERCON Exterior Wall
2. AERCON Partition
3. Plumbing Stack
4. Plumbing Supply Lines
5. 1”x Pressure Treated Nailers Secured w/ Permaseal Adhesive Caulk and 3” Senco (Semicote) Pneumatic Nails at 8” O.C.
6. Gypsum Board
7. Mortar Joint
8. Styrofoam w/ Polyurethane Foam Fill

Chase Detail

1. Plumbing Chase
2. Plumbing Details
3. Mortar Joint
4. Styrofoam
5. Polyurethane Foam Fill
6. Gypsum Board
Cabinet Installation

1 AERCON Wall

2 Attach Cabinet to AERCON Wall with AAC Compatible Fastener. (See Fasteners Information in the Structural Design Section.)
**Exterior Door Jamb**

1. Secure Pressure Treated Buck Strip to AERCON Wall with Polyseamseal Adhesive Caulk and Senco (Semcote) Pneumatic Nails (Spacing per the Design Professional.)
2. Install Exterior Door Jamb per Manufacturer’s Specifications.
3. Fasten Interior Trim with 2” Senco (Semcote) Pneumatic Finishing Nails.
4. Trim Out Moulding, as Necessary.

**Window Jamb**

1. Secure Pressure Treated Buck Strip to AERCON Wall with Polyseamseal Adhesive Caulk and #8 Senco (Semcote) Pneumatic Nails (Spacing per the Design Professional.)
2. Install Window to Buck Strip per Manufacturer’s Specifications.

*Note: Furring Strips for Gypsum Board Should be Secured per Item 1.*

**Interior Jamb**

1. Secure Pressure Treated 1/4” Plywood to AERCON Wall with Polyseamseal Adhesive Caulk and #8 Senco (Semcote) Pneumatic Nails (Spacing per the Design Professional.)
2. Install Interior Door Jamb per Manufacturer’s Specifications.
3. Fasten Interior Trim with 2” Senco (Semcote) Pneumatic Finishing Nails.

**Interior Trim**

1. Fasten Interior Trim with 2” Senco (Semcote) Pneumatic Finishing Nails.
AERCON Fastening Details

1 Secure Wood Framing to AERCON Wall with Polyseamseal Adhesive Caulk and #8 Senco (Semcote) Pneumatic Nails at 16" O.C. and Staggered. See Contract Documents for Anchor Size and Spacing for Exterior Connections.

1 Secure Pressure Treated 2x6 Jamb for Garage Door using Threaded Rod Epoxied into AERCON Wall. See Contract Documents for Anchor Size and Spacing.

*Note: Thru Bolts May be Used as an Alternative Method of Securing Jamb.*