

CITY OF NEW YORK
DEPARTMENT OF BUILDINGS

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of the Material and Equipment Acceptance (MEA) Division.

Patricia J. Lancaster, AIA, Commissioner
MEA 133-03-M

Report of Material and Equipment Acceptance Division

Manufacturer – Aercon Florida, LLC, 3701 CR 544 East Haines City, FL 33844.

Trade Name – Autoclaved Aerated Concrete.

Product – Autoclaved Aerated Concrete block and reinforced precast wall and floor/roof plank used in load bearing and non-load bearing fire rated wall assemblies and fire rated floor/roof construction.

Pertinent Code Section - 27-323, 27-423, 27-131 and applicable portions of RS-10 Structural Work (ACI 318 and/or ACI 530) as related to AAC.

Tests – Types AAC-2, -4, -6 blocks for use in Design Nos. U916, U917, U919, U921, X901.

Types AAC-3.3, -4, -4.4, -6, -6.6 wall panels for use in Design Nos. U918, U920.

Types AAC-3.3/F60, -3.3/F90, 3.3/F120, -3.3/F180, -3.3/F240, -4.4/F60, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F60, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240 floor panels for use in Design Nos. K909, K910, P932, K933.

Types AAC-3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F90, -4.4/F90, -4.4/F120, -4.4/F18-, -4.4/F240, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240 floor panels for use in Design Nos. K908, P931.

Design Nos. K910, P933, and U921 were promulgated based on the results of the fire tests conducted under Project 97NK31297 for Ytong Florida, Ltd. The company has gone through a name change from Ytong Florida, Ltd. To AERCON Florida LLC.

Construction Technology Laboratories, Inc.:

1. Structural Tests on AAC Reinforced Panels Conforming to ACI 318.
2. Compressive Strength Tests of Masonry Prisms – ASTM-E-447.
3. Flexural Bond Strength Test of Masonry – ASTM E-518.
4. Water Penetration and Leakage of Masonry – ASTM E-514.
5. Compressive Strength of Masonry Block – ASTM C-140.
6. Compressive Strength of Concrete Cubes – ASTM C1386.
7. Compressive Strength of Thick Bed Masonry Mortar Used in Fabrication of AAC Masonry Assemblies – ASTM C109.
8. Static Modulus of Elasticity – ASTM C469.
9. Flexural Strength of AAC – ASTM C78.
10. Diagonal Tension of AAC Wall Assemblages – ASTM E519.

11. Standard Test Method for Evaluating the Freeze-Thaw Durability of Manufactured Concrete Masonry Units and Related Concrete Units – ASTM C1252.

Laboratories – Underwriter's Laboratories, Inc.; Construction Technology Laboratories, Inc.; and Intertek Testing Services.

Test Reports – UL File R19131, R18652 dated April 6, 1998, and R18366 dated December 8, 1997, File R18663 dated May 22, 1998, and May 26, 1998. UL letter dated April 16, 2003.

Description – Autoclaved aerated concrete (AAC) is a lightweight precast concrete material that is manufactured as block or reinforced concrete panels. Manufacturing and materials standards are as follows:

1. ASTM C1386-98 "Standard Specification for Precast Autoclaved Aerated Concrete (PAAC) Wall Construction Units." (Blocks)
2. ASTM C1452-00 "Standard Specification for Precast Autoclaved Aerated Concrete Elements." (Precast Planks)

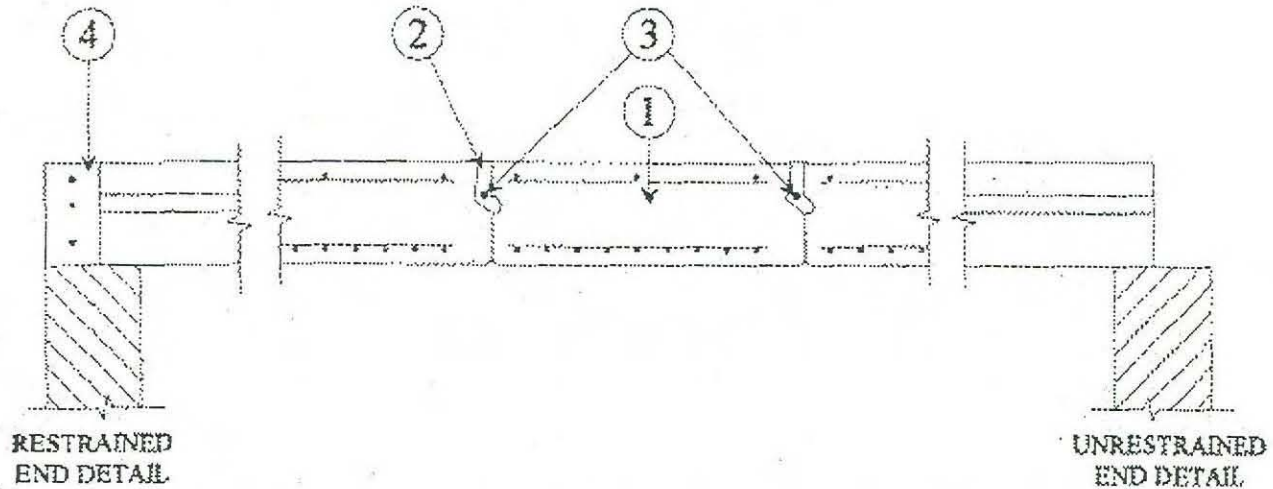
Block and Reinforced Plank can be utilized as bearing and/or non-load bearing walls and partitions. Reinforced plank can be utilized for structural floors and roofs. Structural design with AAC (precast block units or reinforced concrete planks) shall be prepared by qualified New York State licensed professionals. Proper designs will meet or exceed applicable requirements of ACI 318, "Building Code Requirements for Structural Concrete", and ACI 530, Building Code Requirements for Masonry Structures. (see attached drawings).

AAC is a non-proprietary material and is manufactured by Aercon Florida LLC.

March 13, 2003

Restrained Assembly Rating — 4 Hr

Unrestrained Assembly Rating — 4 Hr



1. **Precast Autoclaved Aerated Concrete** — Nom 4 to 12 in. thick, 2 ft wide floor panels with cross section similar to above illustration. Nom 4 in. thick slab can be used only for 1 hr restrained and unrestrained ratings. Panels to have a min 3 in. bearing.

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV — Types AAC 3.3/F60, AAC 3.3/F90, AAC 3.3/F120, AAC 3.3/F180, AAC 3.3/F240, AAC 4.4/F60, AAC 4.4/F90, AAC 4.4/F120, AAC 4.4/F180, AAC 4.4/F240

AERCON FLORIDA L L C — Types AAC-3.3/F60, AAC-3.3/F90, AAC-3.3/F120, AAC-3.3/F180, AAC-3.3/F240, AAC-4/F60, AAC-4/F90, AAC-4/F120, AAC-4/F180, AAC-4/F240, AAC-6/F60, AAC-6/F90, AAC-6/F120, AAC-6/F180, AAC-6/F240

BABB INTERNATIONAL/HEBEL — Types AAC 3.3/F60, AAC 3.3/F90, AAC 3.3/F120, AAC 3.3/F180, AAC 3.3/F240, AAC 4.4/F60, AAC 4.4/F90, AAC 4.4/F120, AAC 4.4/F180, AAC 4.4/F240

CONTEC MEXICANA S A DE C V — Types AAC-3.3/F60, AAC-3.3/F90, AAC-3.3/F120, AAC-3.3/F180, AAC-3.3/F240, AAC-4/F60, AAC-4/F90, AAC-4/F120, AAC-4/F180, AAC-4/F240, AAC-6/F60, AAC-6/F90, AAC-6/F120, AAC-6/F180, AAC-6/F240

TEXAS CONTEC INC — Types AAC-3.3/F60, AAC-3.3/F90, AAC-3.3/F120, AAC-3.3/F180, AAC-3.3/F240, AAC-4/F60, AAC-4/F90, AAC-4/F120, AAC-4/F180, AAC-4/F240, AAC-6/F60, AAC-6/F90, AAC-6/F120, AAC-6/F180, AAC-6/F240

2. **Joint** — Grouted full length with normal weight concrete.

3. **Reinforcing Steel** — No. 3 min rebar used to reinforce normal weight concrete at the joints. Rebar to be provided with a hook at each end.

4. **Ring Beam** — Used to restrain panels. Normal weight concrete with compressive strength of 3000 psi reinforced with two No. 4 rebar attached to the hook of the joint reinforcing steel (Item 3) and placed at approximate 1/4 and 3/4 of the beam.

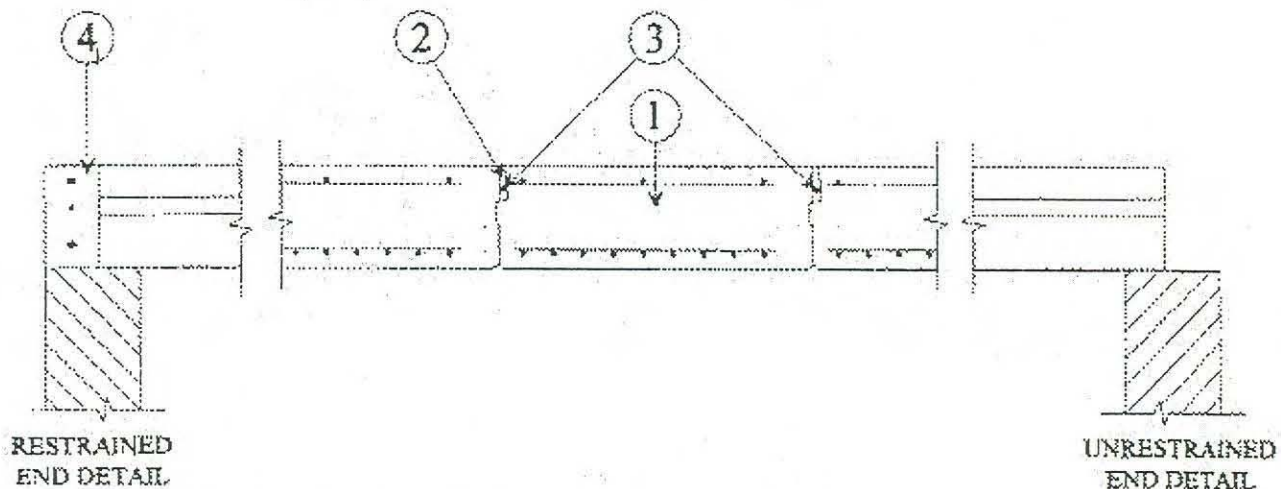
*Bearing the UL Classification Mark

Design No. K910

February 26, 2003

Restrained Assembly Rating — 4 Hr

Unrestrained Assembly Rating — 1 Hr



1. **Precast Autoclaved Aerated Concrete** — Min 8 in. thick, 2 ft wide floor panels with cross section similar to above illustration. Type 1 panels for the 1 hr unrestrained assembly rating and Type 2 panels for the 1-1/2 hr unrestrained assembly rating. Panels shall have 2-1/2 in. min bearing.

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV — AAC-3.3/F60, -3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F60, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F60, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240

AERCON FLORIDA L L C — Types AAC-3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240.

BABB INTERNATIONAL/HEBEL — AAC-3.3/F60, -3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F60, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F60, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240

2. **Joint** — Grouted full length with normal weight concrete.

3. **Reinforcing Steel** — No. 3 min rebar used to reinforce normal weight concrete at the joints. Rebar to be provided with hooks.

4. **Ring Beam** — Used to restrain panels. Normal weight concrete with compressive strength of 3000 psi reinforced with two No. 4 rebar attached to the joint reinforcing steel (Item 3) and placed at approximate 1/3 and 2/3 depth of the beam.

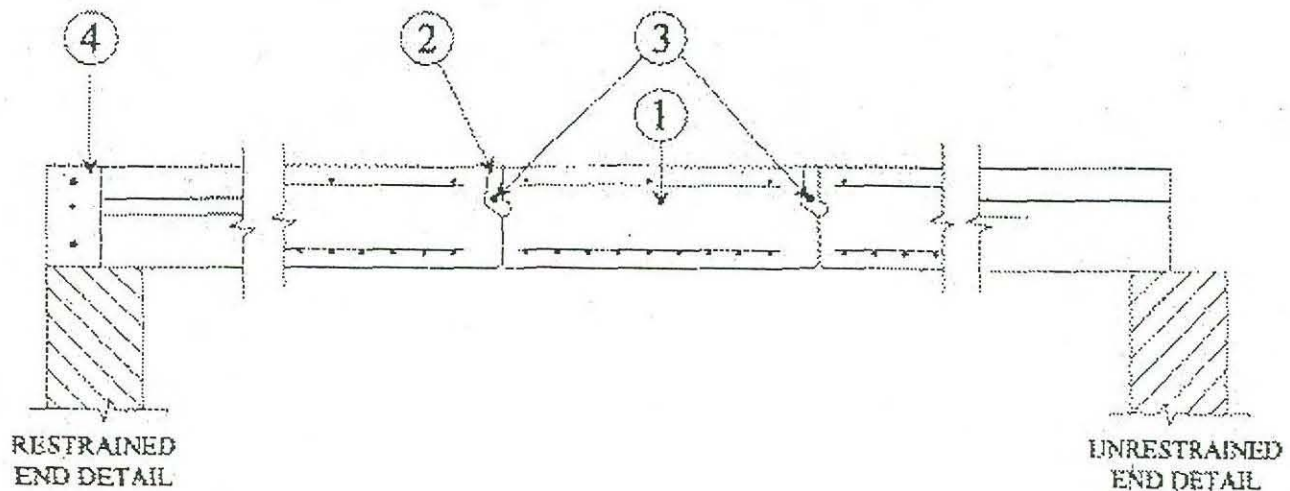
*Bearing the UL Classification Mark

Design No. K908

March 13, 2003

Restrained Assembly Rating — 3 Hr

Unrestrained Assembly Rating — 1-1/2 Hr



1. **Precast Autoclaved Aerated Concrete** — Nom 8 in. thick, 2 ft wide floor panels with cross section similar to above illustration.

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV — Types AAC-3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240

AERCON FLORIDA L L C — Types AAC-3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240

BABB INTERNATIONAL/HEBEL — Types AAC-3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240

AERCON FLORIDA L L C — Types AAC-3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240.

2. **Joint** — Grouted full length with normal weight concrete.

3. **Reinforcing Steel** — No. 4 min rebar used to reinforce normal weight concrete at the joints.

4. **Ring Beam** — Used to restrain panels. Normal weight concrete with compressive strength of 3000 psi reinforced with two No. 5 rebar placed at approximate 1/3 and 2/3 depth of the beam.

*Bearing the UL Classification Mark

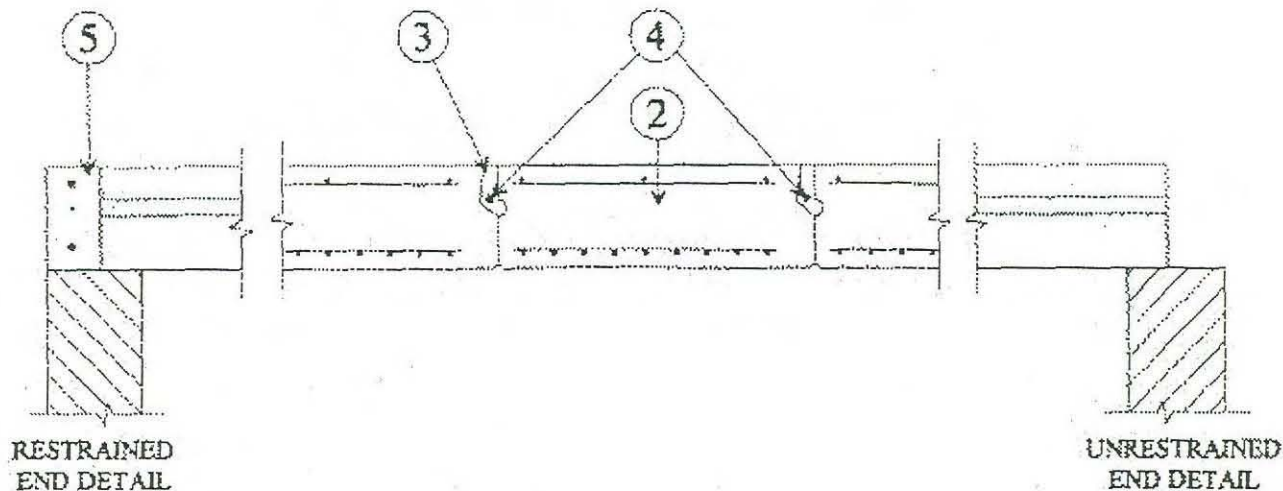
Guide Information

Design No. P931

February 26, 2003

Restrained Assembly Rating — 3 Hr

Unrestrained Assembly Rating — 1-1/2 Hr



1. **Roof Covering** — (Not Shown) Consisting of hot-mopped or cold application materials without insulation which are not mechanically attached and provide Class A, B or C coverings. See Roofing Materials and Systems Directory - Roof Covering Materials (TEVT).

2. **Precast Autoclaved Aerated Concrete** — Nom 8 in. thick, 2 ft wide floor panels with cross section similar to above illustration.

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV — AAC-3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240

AERCON FLORIDA L L C — Types AAC-3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240.

BABB INTERNATIONAL/HEBEL — AAC-3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240

3. **Joint** — Grouted full length with normal weight concrete.

4. **Reinforcing Steel** — No. 4 min rebar used to reinforce normal weight concrete at the joints.

5. **Ring Ream** — Used to restrain panels. Normal weight concrete with compressive strength of 3000 psi reinforced with two No. 5 rebar placed at approximate 1/3 and 2/3 depth of the beam.

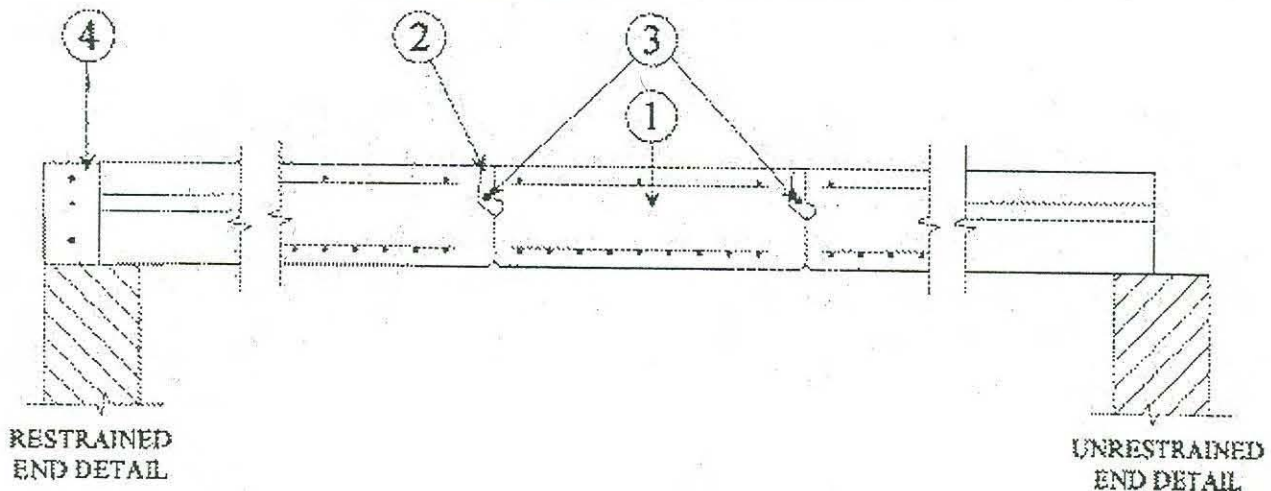
*Bearing the UL Classification Mark

Design No. P932

February 26, 2003

Restrained Assembly Rating — 4 Hr

Unrestrained Assembly Rating — 4 Hr



1. **Roof Covering** — (Not Shown) Consisting of hot-mopped or cold application materials without insulation which are not mechanically attached and provide Class A, B or C coverings. See Roofing Materials and Systems Directory — Roof Covering Materials (TEVT).

2. **Precast Autoclaved Aerated Concrete** — Nom 4 to 12 in. thick, 2 ft wide floor panels with cross section similar to above illustration. Nom 4 in. thick slab can be used for 1 hr restrained and unrestrained ratings.

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV — Types AAC 3.3/F60, AAC 3.3/F90, AAC 3.3/F120, AAC 3.3/F180, AAC 3.3/F240, AAC 4.4/F60, AAC 4.4/F90, AAC 4.4/F120, AAC 4.4/F180, AAC 4.4/F240

AERCON FLORIDA L L C — Types AAC-3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240.

BABB INTERNATIONAL/HEBEL — Types AAC 3.3/F60, AAC 3.3/F90, AAC 3.3/F120, AAC 3.3/F180, AAC 3.3/F240, AAC 4.4/F60, AAC 4.4/F90, AAC 4.4/F120, AAC 4.4/F180, AAC 4.4/F240

CONTEC MEXICANA S A DE C V — Types AAC-3.3/F60, AAC-3.3/F90, AAC-3.3/F120, AAC-3.3/F180, AAC-3.3/F240, AAC-4/F60, AAC-4/F90, AAC-4/F120, AAC-4/F180, AAC-4/F240, AAC-6/F60, AAC-6/F90, AAC-6/F120, AAC-6/F180, AAC-6/F240

TEXAS CONTEC INC — Types AAC-3.3/F60, AAC-3.3/F90, AAC-3.3/F120, AAC-3.3/F180, AAC-3.3/F240, AAC-4/F60, AAC-4/F90, AAC-4/F120, AAC-4/F180, AAC-4/F240, AAC-6/F60, AAC-6/F90, AAC-6/F120, AAC-6/F180, AAC-6/F240

3. **Joint** — Grouted full length with normal weight concrete.

4. **Reinforcing Steel** — No. 3 min rebar used to reinforce normal weight concrete at the joints. Rebar to be provided with a hook at each end.

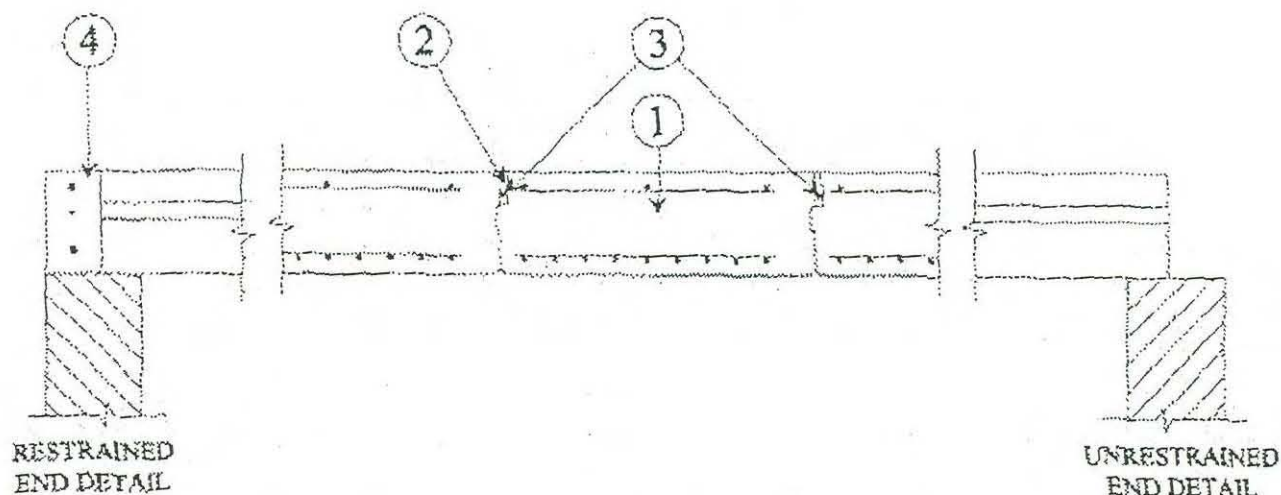
5. **Ring Beam** — Used to restrain panels. Normal weight concrete with compressive strength of 3000 psi reinforced with two No. 4 rebar attached to the hook of the joint reinforcing steel (Item 3) and placed at approximate 1/4 and 3/4 depth of the beam.

*Bearing the UL Classification Mark

February 26, 2003

Restrained Assembly Rating — 4 Hr

Unrestrained Assembly Rating — 1 Hr



1. **Roof Covering** — (Not Shown) Consisting of hot-mopped or cold application materials without insulation which are *not* mechanically attached and provide Class A, B or C coverings. See Roofing Materials and Systems Directory-Roof Covering Materials (TEVT).

2. **Precast Autoclaved Aerated Concrete** — Min 8 in. thick, 2 ft wide floor panels with cross section similar to above illustration. Type 1 panels for the 1 hr unrestrained assembly rating and Type 2 panels for the 1-1/2 hr unrestrained assembly rating. Panels shall have 2-1/2 in. min bearing.

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV — AAC-3.3/F60, -3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F60, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F60, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240

AERCON FLORIDA L L C — Types AAC-3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240.

BABB INTERNATIONAL/HEBEL — AAC-3.3/F60, -3.3/F90, -3.3/F120, -3.3/F180, -3.3/F240, -4.4/F60, -4.4/F90, -4.4/F120, -4.4/F180, -4.4/F240, -6.6/F60, -6.6/F90, -6.6/F120, -6.6/F180, -6.6/F240

3. **Joint** — Grouted full length with normal weight concrete.

4. **Reinforcing Steel** — No. 3 min rebar used to reinforce normal weight concrete at the joints. Rebar to be provided with hooks.

5. **Ring Beam** — Used to restrain panels. Normal weight concrete with compressive strength of 3000 psi reinforced with two No. 4 rebar attached to the joint reinforcing steel (Item 3) and placed at approximate 1/3 and 2/3 depth of the beam.

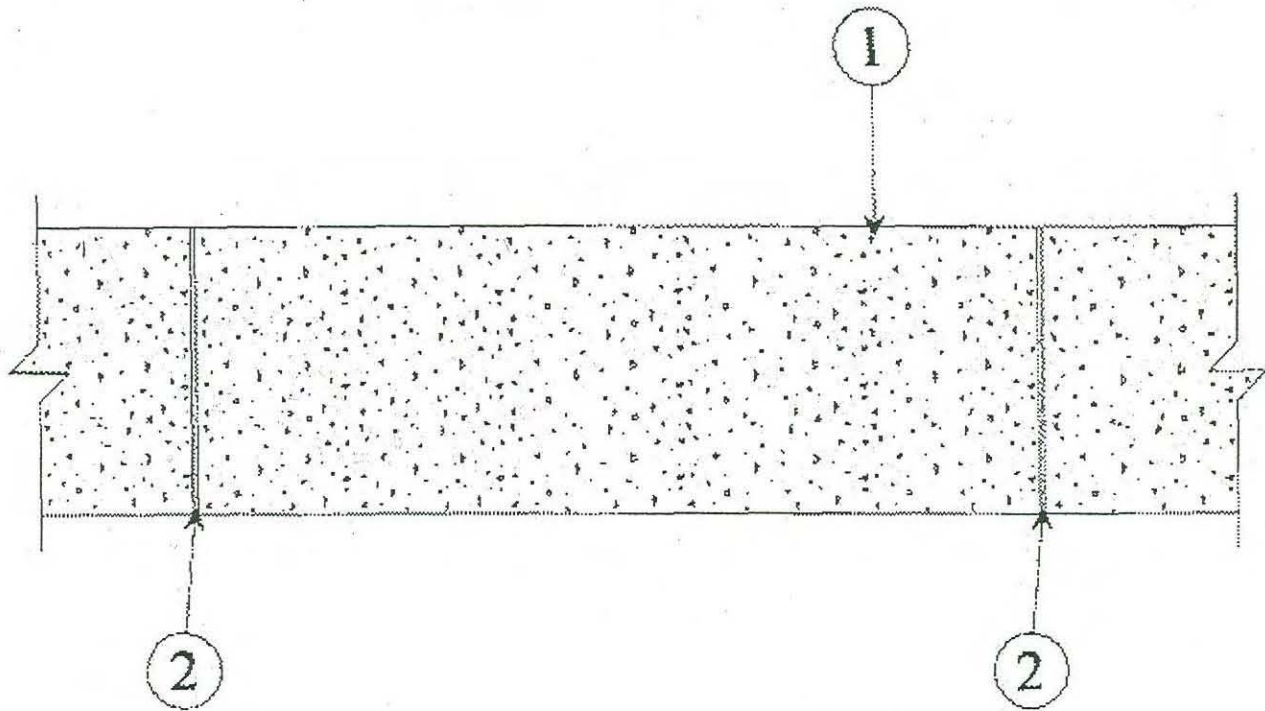
*Bearing the UL Classification Mark

Design No. U916

February 26, 2003

Bearing Wall Rating — 4 Hr

Nonbearing Wall Rating — 4 Hr



1. **Precast Autoclaved Aerated Concrete Blocks** — Nom 8 in. thick by 24 in. high by 40 in. long blocks.

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV — AAC-2, AAC-4, AAC-6

AERCON FLORIDA L L C — AAC-2, AAC-4, AAC-6

BABB INTERNATIONAL/HEBEL — AAC-2.5, AAC-5.0, AAC-7.5

E-CRETE L L C — AAC-2, AAC-4, AAC-6

2. **Thin Bed Mortar** — Blocks laid in a ANSI A118.4 Latex/Portland cement thin bed mortar installed with vertical joints staggered.

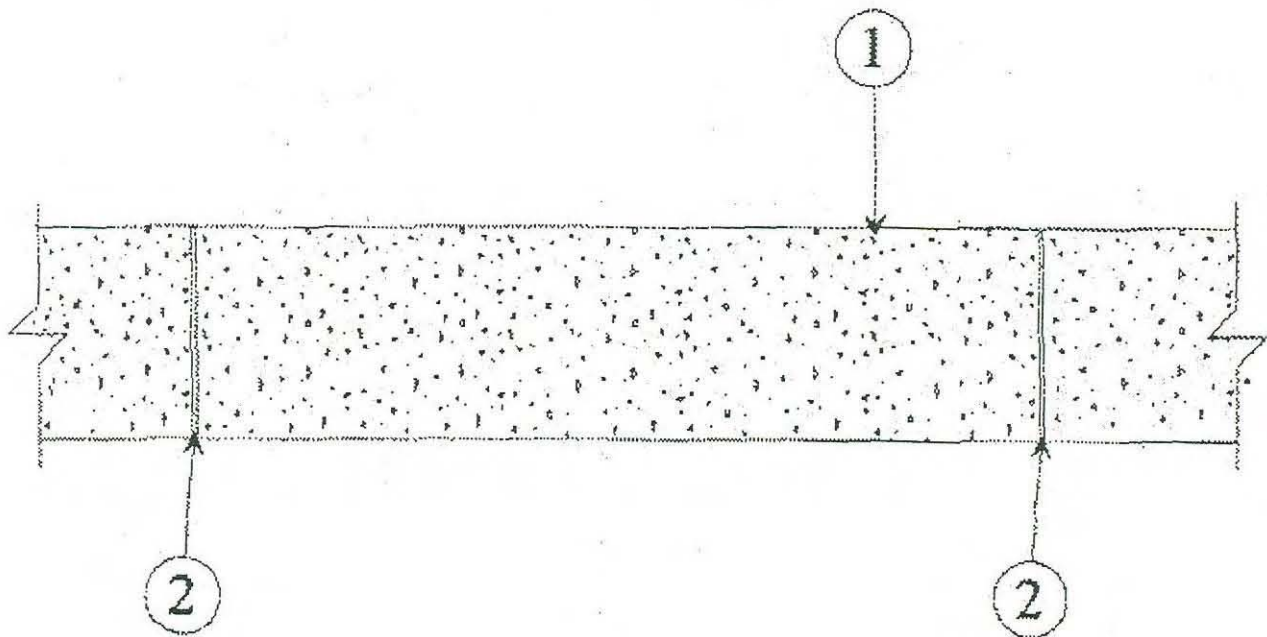
*Bearing the UL Classification Mark

Design No. U917

February 26, 2003

Bearing Wall Rating — 4 Hr

Nonbearing Wall Rating — 4 Hr



1. **Precast Autoclaved Aerated Concrete Blocks** — Min 6 in. thick by 7-7/8 in. high by 23-5/8 in. long blocks.

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV — AAC-2, AAC-4, AAC-6

AERCON FLORIDA L L C — AAC-2, AAC-4, AAC-6

BABB INTERNATIONAL/HEBEL — AAC-2.5, AAC-5.0, AAC-7.5

E-CRETE L L C — AAC-2, AAC-4, AAC-6

2. **Thin Bed Mortar** — Blocks laid in a ANSI A118.4 Latex/Portland cement thin bed mortar installed with vertical joints staggered.

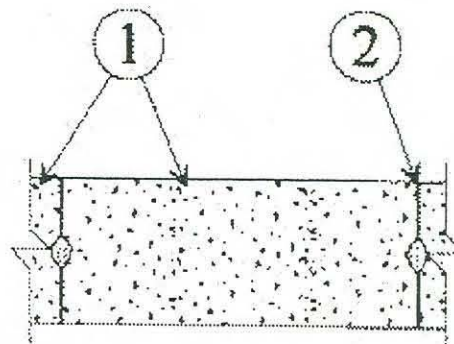
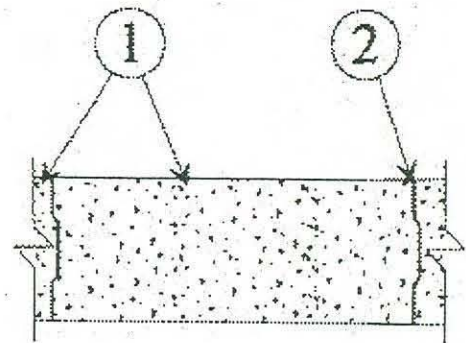
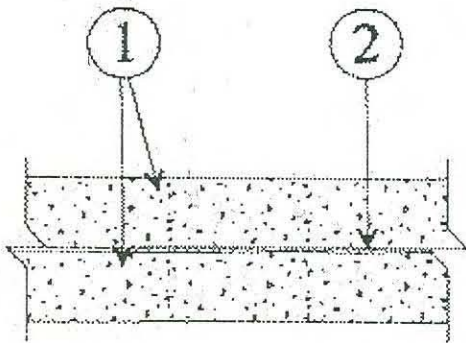
*Bearing the UL Classification Mark

Design No. U918

March 13, 2003

Bearing Wall Rating — 4 Hr

Nonbearing Wall Rating — 4 Hr



1. **Precast Autoclaved Aerated Concrete Wall Panels** — Min 8 in. thick by 2 ft wide panels installed either horizontally or vertically. Panels mechanically attached to the concrete floor and ceiling.

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV — AAC-3.3, AAC-4, AAC-6

AERCON FLORIDA L L C — AAC-3.3, AAC-4, AAC-4.4, AAC-6, AAC-6.6

BABB INTERNATIONAL/HEBEL — AAC-3.5, AAC-5, AAC-7.5

2. **Thin Bed Mortar** — Horizontal and vertical panel joints coated with a ANSI A118.4 Latex/Portland cement thin bed mortar.

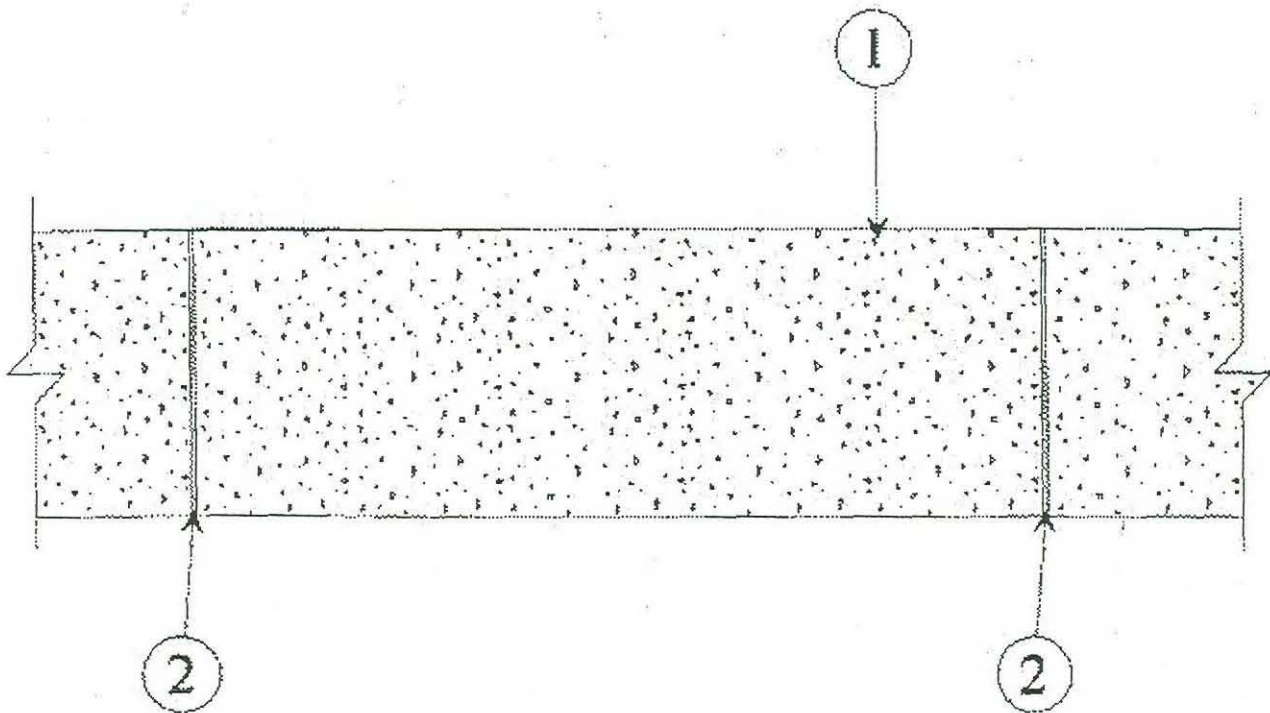
*Bearing the UL Classification Mark

Design No. U919

February 26, 2003

Bearing Wall Rating — 4 Hr

Nonbearing Wall Rating — 4 Hr



1. **Precast Autoclaved Aerated Concrete Blocks** — Min 4 in. thick by min 7-7/8 in. high by min 23-5/8 in. long blocks for use in nonbearing wall assemblies and min 6 in. thick by min 7-7/8 in. high by min 23-5/8 in. long blocks for use in bearing wall

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV — AAC-2, AAC-4, AAC-6

AERCON FLORIDA L L C — AAC-2, AAC-4, AAC-6

CONTEC MEXICANA S A DE C V — AAC -2 , AAC-4, AAC-6

BABB INTERNATIONAL/HEBEL — AAC-2.5, AAC-3.5, AAC-5, AAC-7.5

E-CRETE L L C — AAC-2, AAC-4, AAC-6

TEXAS CONTEC INC — AAC-2 , AAC-4, AAC-6

2. Thin Bed Mortar — Blocks laid in a ANSI A118.4 Latex/Portland cement thin bed mortar installed with vertical joints staggered.

3. Precast Autoclaved Aerated Concrete Lintel (Not Shown)* — Min 6 in. thick lintel for use in bearing and nonbearing wall assemblies.

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV

CONTEC MEXICANA S A DE C V

BABB INTERNATIONAL/HEBEL

E-CRETE L L C

TEXAS CONTEC INC

YTONG FLORIDA LTD

*Bearing the UL Classification Mark

BABB INTERNATIONAL/HEBEL — Types AAC-3.5, AAC-5, AAC-7.5

TEXAS CONTEC INC — AAC-2, AAC-4, AAC-6

2. **Thin Bed Mortar*** — Horizontal and vertical panel joints coated with a ANSI A118.4 Latex/Portland cement thin bed mortar.

3. **Caulking and Sealants (Optional)** — Applied to the horizontal and vertical joints. See Caulking and Sealants (BZYW) category for list of manufacturers.

*Bearing the UL Classification Mark

Design No. U920

February 26, 2003

Bearing Wall Rating — 4 Hr

Nonbearing Wall Rating — 4 Hr



1. **Precast Autoclaved Aerated Concrete Wall Panels** — Min 6 in. thick by max 2 ft wide panels installed either horizontally or vertically. Panels mechanically attached to the concrete floor and ceiling.

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV — AAC-3.3, AAC-4, AAC-6

AERCON FLORIDA L L C — AAC-3.3, AAC-4, AAC-4.4, AAC-6, AAC-6.6

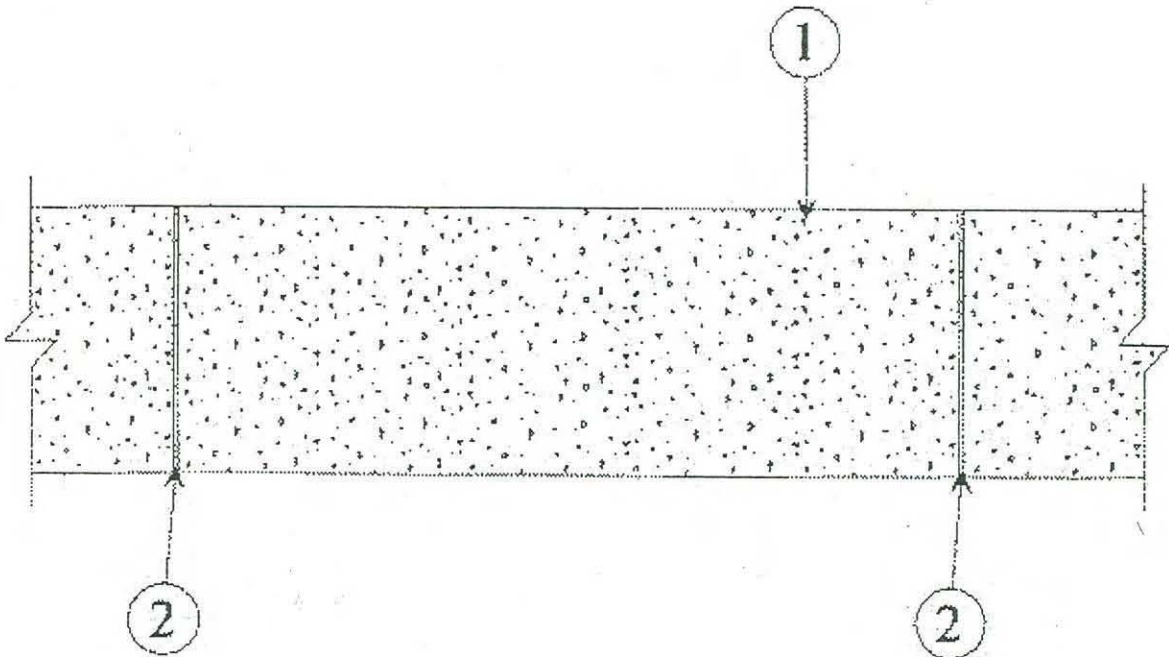
CONTEC MEXICANA S A DE C V — AAC-2, AAC-4, AAC-6

Design No. U921

February 26, 2003

Bearing Wall Rating — 4 Hr

Nonbearing Wall Rating — 4 Hr



1. **Precast Autoclaved Aerated Concrete** — Min 6 in. thick by min 7-7/8 in. high by min 23-5/8 in. long blocks.

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV — AAC-2, AAC-4, AAC-6

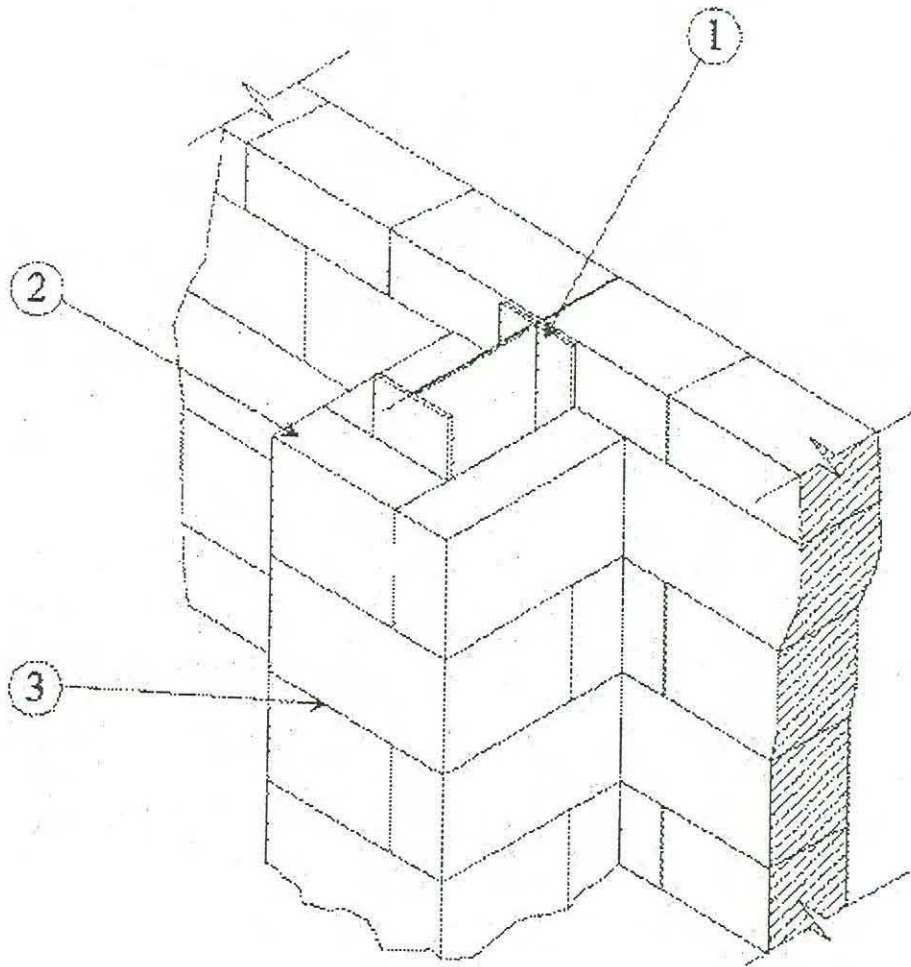
AERCON FLORIDA L L C — AAC-2, AAC-4, AAC-6

BABB INTERNATIONAL/HEBEL — Types AAC-2.5, AAC-3.5, AAC-5, AAC-7.5

Design No. X901

April 08, 2003

Rating — 4 Hr



1. **Steel Column** — Any size W shaped steel column, steel tube or steel pipe.

2. **Precast Autoclaved Aerated Concrete Blocks or Panels** — Min 4 in. thick by min 7-7/8 in. high by min 23-5/8 in. long blocks or min 8 in. thick by 2 ft wide panels installed either horizontally or vertically. Panels mechanically attached to the concrete floor and ceiling.

ACCOA-AERATED CONCRETE CORP OF AMERICA

WALLBOARD DIV — AAC-2, AAC-4, AAC-6

AERCON FLORIDA L L C — AAC-2, AAC-4, AAC-6

BABB INTERNATIONAL/HEBEL — AAC-2.5, AAC-5.0, AAC-7.5

CONTEC MEXICANA S A DE C V — AAC-2, AAC-3.3, AAC-4, AAC-6

E-CRETE L L C — AAC-2, AAC-4, AAC-6

TEXAS CONTEC INC — AAC-2, AAC-3.3, AAC-4, AAC-6

3. **Thin Bed Mortar** — Blocks laid in a ANSI A118.4 Latex/Portland cement thin bed mortar installed with vertical joints staggered.

*Bearing the UL Classification Mark

See attached ASTM Standards for additional details. Block and precast units are joined by Polymer Modified AAC Adhesive Cement (Thinbed Mortar) which exceeds the strength of the AAC units. Assemblies are constructed in the field with approved and tested components by Autoclaved Aerated Concrete Systems, Inc.

AAC possess excellent fire rating capabilities. Based on UL Test Data the following minimum fire ratings can be achieved:

- Walls - 4 inches thick and up - 4-hour rating.
- Floors/Roofs - 6 inches thick and up; Restrained Assemblies - 4 hours;
Unrestrained Assemblies - 2 hours.
- Steel fireproofing - 4-inch block - 4 hours.

Note: Per Manufacturer: AAC possesses a good resistance to freeze/thaw cycles due to its closed cell spherical pore structure. Saturation with water is, however, possible if high hydrostatic pressure is applied or if the material is subject to ground water for extended periods of time (i.e. months). For this reason the use of AAC is not recommended in foundation applications where there is a threat of groundwater in combination with freezing temperatures. Any other use, above or below grade, indoor or outdoor, is acceptable. In direct outdoor applications, coating with manufacturer approved waterproofing, paint or direct applied stucco is recommended.

Recommendation - That the above described autoclaved aerated concrete block and reinforced panel material be accepted for use in fire rated building construction. The design of the above-described units shall be prepared by New York City licensed professional, and shall meet the applicable provisions of RS-10. All configurations, arrangements and functions, locations and installations shall comply with the New York City Building Code and the UL Fire Resistance Ratings specified above. Minimum bearing on supports specified in UL file must be provided. The accepted of these assemblies are limited to fire resistance only. Structural and other requirements shall be in compliance with pertinent Building Code provisions and above mentioned limitation. All shipments and deliveries of this material shall be accompanied by a certificate by the manufacturer that the material shipped or delivered is equivalent to those tested and accepted for use as provided herein and in Section 27-131 of the Building Code and that the material has been properly utilized in wall, floor and roof assemblies by Autoclaved Aerated Concrete Systems, Inc.

Final Acceptance May/30/03

Examined by S Derbhadan