

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, A.I.A., Commissioner

MEA 208-03-M
Report of Material and Equipment Acceptance Division

Manufacturer – Larry E. Knight, Inc. 12200 Owings Mills Boulevard, Gyndon, Maryland 21071.

Trade Name – Larry E. Knight.

Product – Prestressed, precast reinforced concrete slabs for floor/ceiling assemblies.

Pertinent Code Section(s) – 27-323, 27-324.

Prescribed Test(s) – RS 5-2 (ASTM E119).

Laboratory – Underwriters Laboratories, Inc.

Test Reports – UL File R21476, Project 03CA2031 dated July 10, 2003.

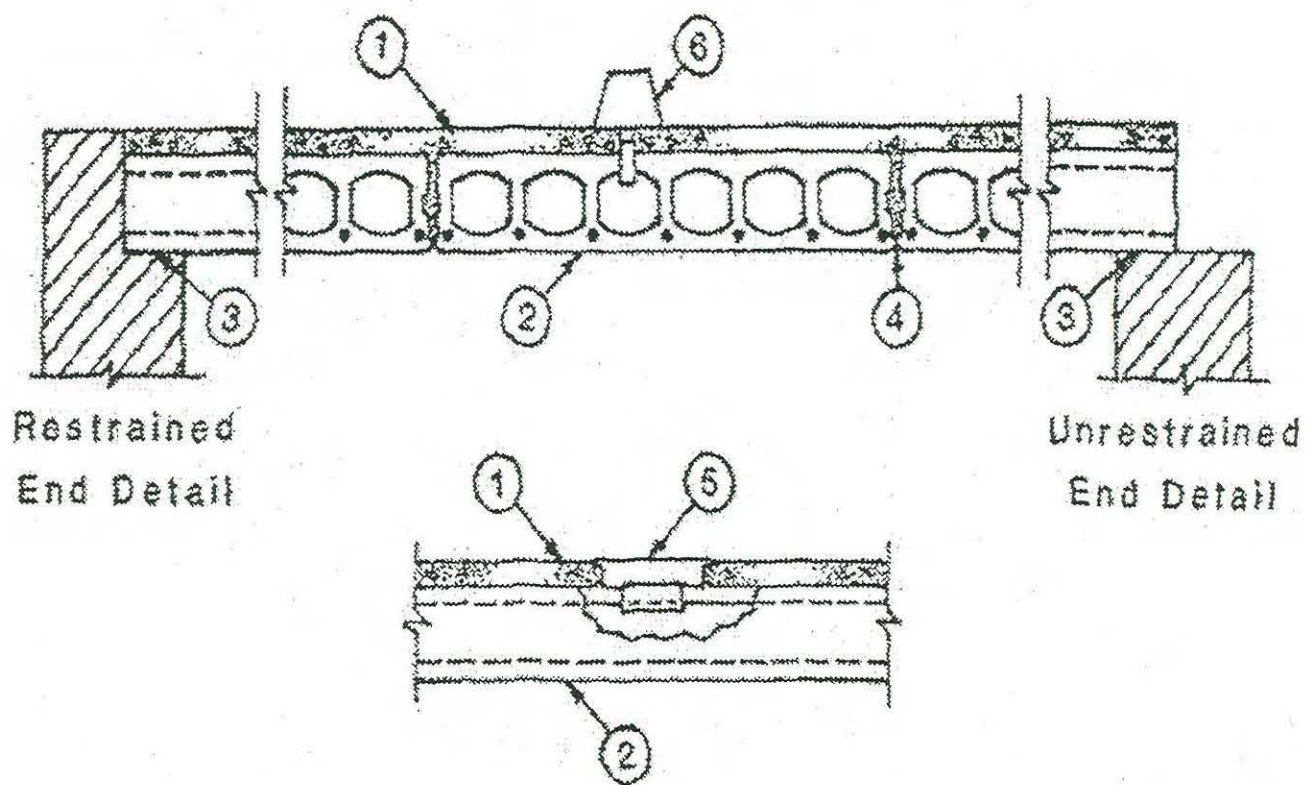
Description – Floor/ceiling assemblies, as per sketch below, utilizing the PCE E1-900-E prestressed, precast hollow core concrete slab reinforced in one direction with a minimum of seven (7) strands of wire (conforming to the requirements of ASTM A416) with or without cementitious underlayment mixture applied to the specified thickness to achieve the fire resistance ratings listed below and in accordance with Underwriters Laboratories Inc., Design Nos. J964, J994, J984, J985, J991, J992, and J995.

Design No. J964

July 25, 2003

Restrained Assembly Ratings — 2, 3, and 4 Hr.

Unrestrained Assembly Rating — 2 Hr.



1. Concrete Topping — Lightweight aggregate, — 3000 psi compressive strength, 110 to 123 pcf unit weight. The minimum concrete topping thickness is 1-3/4 in.

when Item Nos. 5 and 6 are used. When Item Nos. 5 and 6 are not used, the minimum concrete topping thickness shall be:

Rating Hr	Topping Thkns In.	
	8 In. Unit	12 & 15 In. Unit
2	0	0
3	1	0
4	1-3/4	1

2. **Precast Concrete Units*** — Lightweight aggregate concrete units, nom 8 in. and 15 in. deep, 48 in. wide. For restrained assembly condition, a 3/4 in. lateral expansion joint to be provided the full length and depth of the slabs every 16 ft. Expansion should be obtained using noncombustible, compressible material, for example 24 sheets of 1/16 in. ceramic fiber paper. Clearance for expansion at each end of slab shall be equal to $(L/17) \times (3/8 \text{ +/or- } 1/16)$ in. where "L" is equal to length of span in feet.

ATMI DYNACORE

LARRY E KNIGHT INC

OLDCASTLE PRECAST INC

PRESTRESSED CONCRETE INC

SAY-CORE INC

3. **Min Bearing** — 1-1/2 in. for assembly rating of 3 hr or less and 3 in. for assembly rating of 4 hr.

4. **Joint** — Clearance between slabs at bottom, full length min 1/8 + or - 1/16, grouted full length with sand-cement grout approx half the depth of the unit. Depth may be maintained by placing noncombustible material (such as ceramic fiber rope) used as a grout stop in bottom of joint before applying grout.

5. **Trench-Header Duct** — Optional. (Bearing the UL Listing Mark). Housing constructed of steel and provided with metal edge screeds.

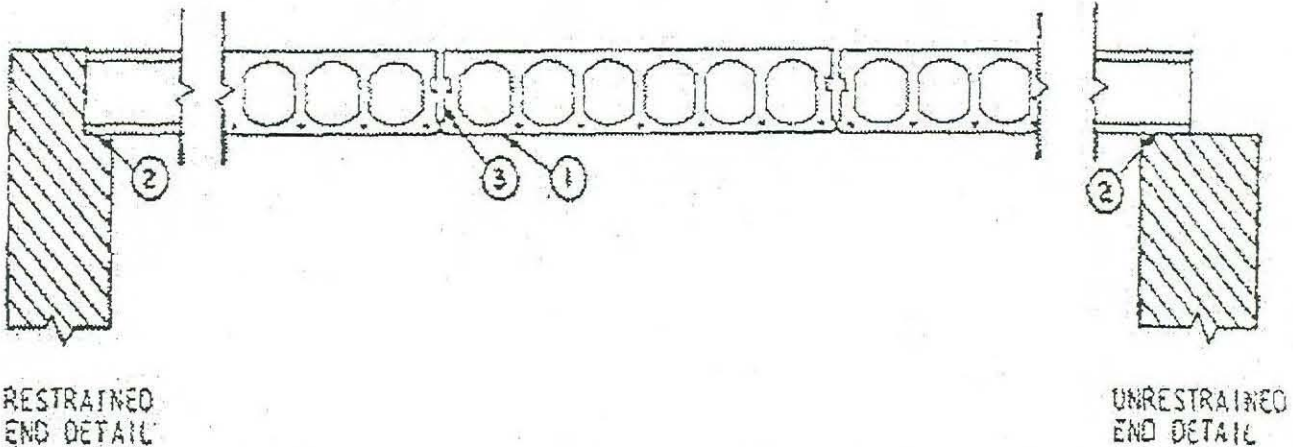
6. **Electrical and Telephone Outlets** — Optional. Electrical outlets, after set drive inserts, and outlets mounting bushing (Bearing the UL Listing Mark) 3-1/2 in. diameter by 1 in. thick piece of noncombustible-compressible blanket insulation, slit at center for passage of wires, to be placed on top of bushing under outlet box.

Design No. J984

July 25, 2003

Restrained Assembly Rating — 1 Hr.

Unrestrained Assembly Rating — 1 Hr.



1. **Precast Concrete Units*** — Carbonate aggregate concrete units, nom 8 in. deep, 48 in. wide. For restrained assembly condition, a 3/4 in. lateral expansion joint to be provided the full length and depth of the slabs every 16 ft. Expansion should be obtained using noncombustible, compressible material, for example 24 sheets of 1/16 in. ceramic fiber paper. Clearance for expansion at each end of slab shall be equal to $(L/17) \times (3/8 +/or/- 1/16)$ in. where "L" is equal to length of span in feet.

LARRY E KNIGHT INC

OLDCASTLE PRECAST INC

SAY-CORE INC

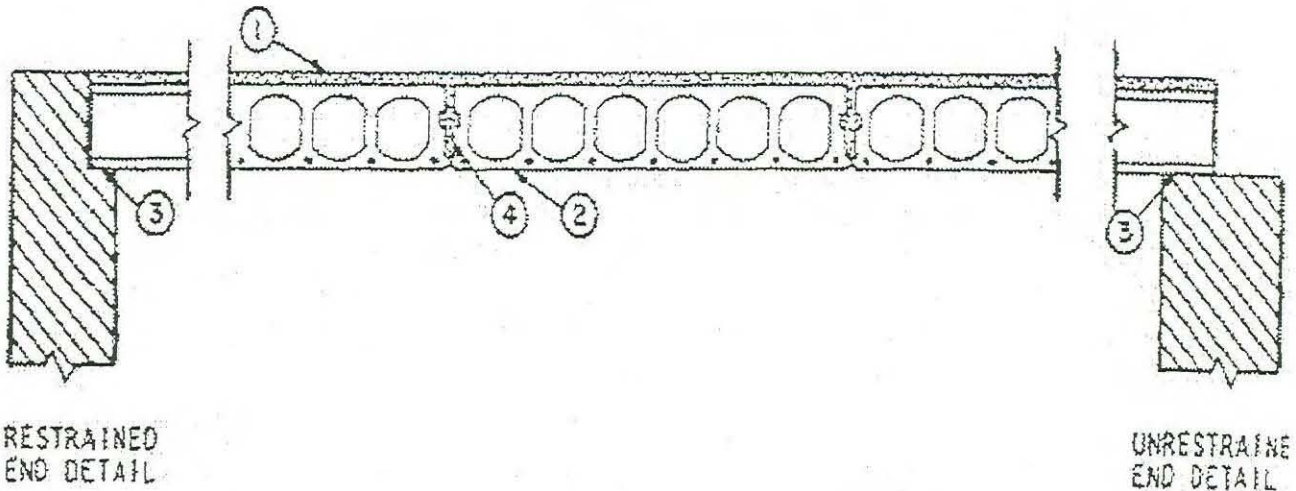
2. **Min Bearing** — 1-1/2 in.

3. **Joint** — Clearance between slabs at bottom, full length min 1/8 +/or/- 1/16, grouted full length with sand-cement grout approx half the depth of the unit. Depth may be maintained by placing noncombustible material (such as ceramic fiber rope) used as a grout stop in bottom of joint before applying grout.

July 25, 2003

Restrained Assembly Rating — 2 Hr.

Unrestrained Assembly Rating — 2 Hr.



1. **Concrete Topping** — Carbonate or lightweight aggregate, 3000 psi compressive strength, 110 to 153 pcf unit weight.

Rating Hr	Topping Thkns In.
2	1

2. **Precast Concrete Units*** — Carbonate aggregate concrete units, nom 8 in. or 12 in. deep, 48 in. wide. For restrained assembly condition, a 3/4 in. lateral expansion joint to be provided the full length and depth of the slabs every 16 ft. Expansion should be obtained using noncombustible, compressible material, for example 24 sheets of 1/16 in. ceramic fiber paper. Clearance for expansion at each end of slab shall are equal to $(L/17) \times (3/8 \pm 1/16)$ in. where "L" is equal to length of span in feet.

LARRY E KNIGHT INC

OLDCASTLE PRECAST INC

SAY-CORE INC

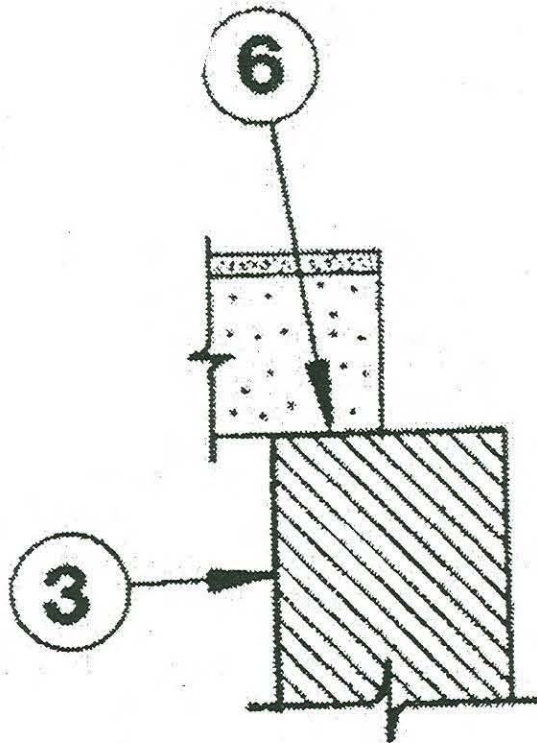
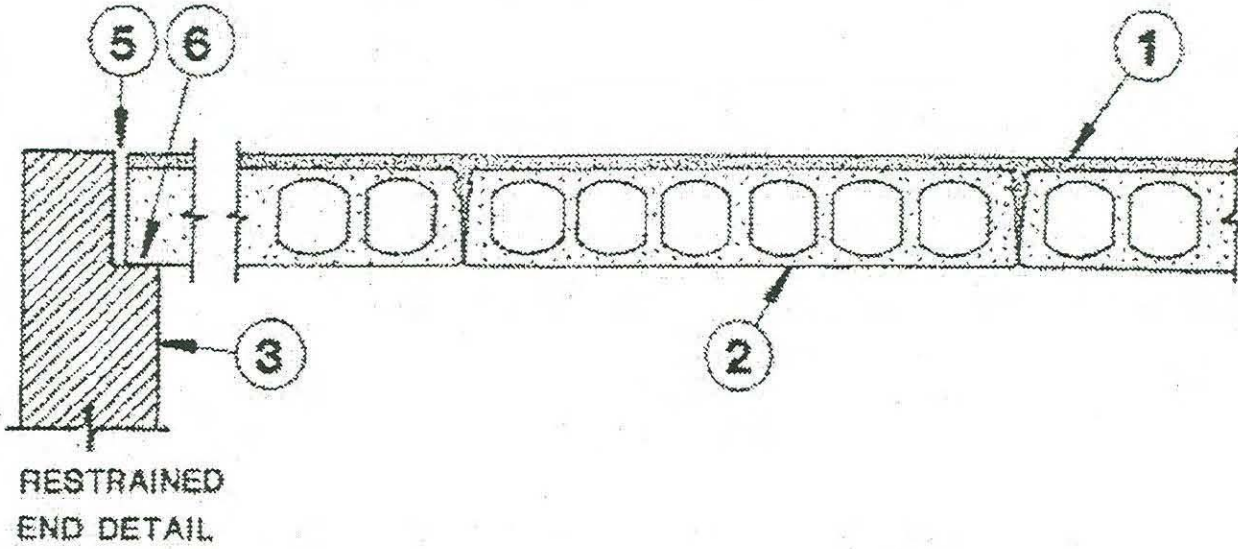
3. **Min Bearing** — 1-1/2 in.

4. **Joint** — Clearance between slabs at bottom, full length min 1/8 \pm 1/16, grouted full length with sand-cement grout approx half the depth of the unit. Depth may be maintained by placing noncombustible material (such as ceramic fiber rope) used as a grout stop in bottom of joint before applying grout.

July 25, 2003

Restrained Assembly Ratings — 1-1/2, 2, 3 and 4 Hr

Unrestrained Assembly Rating — 1-1/2 Hr



UNRESTRAINED END DETAIL

1. **Concrete Topping** — 3000 psi compressive strength, 110 to 153 pcf unit weight.

Assembly Rating Hr	Min Topping Thkns In.
1-1/2	0
2	1
3	2-1/8
4	3-3/8

1A. **Floor Topping Mixture*** — (Alternate to concrete topping) — 8 gal max water to 80 lbs min of floor topping mixture to 220 lbs max of sand. Compressive strength, 1000 psi.

Rating-Hr.	Material
	Thickness-In.
2	1/2
3	1

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 4010, Firm-Fill High Strength and Gyp-Span Radiant.

Floor Mat Materials* — (Optional) — Floor mat material nom 1/4 in. thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/2 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Sound-Mat.

1B. **Alternate Finish Flooring** — **Floor Topping Mixture*** — 4 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.4 to 1.9 cu ft of sand. Compressive strength to be 1200 psi min.

Rating Hr	Mtl Thkns In.
2	1/2
3	1

RAPID FLOOR SYSTEMS — Type RF, RFP or RFU.

Floor Mat Materials* — (Optional) — Floor mat material nom 1/4 in. thick adhered to subfloor with Maxxon Floor Primer. Primer to be applied to the surface of the mat prior to lath placement.

MAXXON CORP — Type Acousti-Mat.

Metal Lath — For use with floor mat material, 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Floor topping thickness a nom 1 in. over the floor mat.

Alternate Floor Mat Materials* (Optional)— Floor mat material nom 1/4 in. thick loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness a min 1 in. over the floor mat.

MAXXON CORP — Type Acousti-Mat II.

1C. Finish Flooring-Floor Topping Mixture* — 3 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.0 to 2.1 cu ft of sand. Compressive strength to be 1000 psi min. Min thickness to be 3/4 in.

Rating Hr	Mtl Thkns In.
2	1/2
3	1

MAXXON CORP — Type D-C, GC, GC 2000, L-R or T-F.

Floor Mat Materials* — (Optional) — Floor mat material nom 1/4 in. thick adhered to subfloor with Maxxon Floor Primer. Primer to be applied to the surface of the mat prior to lath placement.

MAXXON CORP — Type Acousti-Mat.

Metal Lath — For use with floor mat material, 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Floor topping thickness a nom 1 in. over the floor mat.

Alternate Floor Mat Materials* (Optional)— Floor mat material nom 1/4 in. thick loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness a min 1 in. over the floor mat.

MAXXON CORP — Type Acousti-Mat II.

1D. Alternate Floor Topping Mixture* — Compressive strength to be 1500 psi minimum. Refer to manufacturer's instructions accompanying the material for specific mix design.

Rating Hr	Material Thickness-In.
2	1/2
3	1

UNITED STATES GYPSUM CO — Levelrock 2500, Levelrock RH

Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Type USG Sound Mat

Alternate Floor Mat Materials* — (Optional) - Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board

1E. Alternate Floor Topping Mixture* — Compressive strength to be 2100 psi minimum. Refer to manufacturer's instructions accompanying the material for

specific mix design.

Rating Hr	Material Thickness-In.
2	1/2
3	1

UNITED STATES GYPSUM CO — Levelrock 3500, Levelrock Commercial RH

Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Type USG Sound Mat

Alternate Floor Mat Materials* — (Optional) - Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board

1F. Alternate Floor Topping Mixture* — Compressive strength to be 3000 psi minimum. Refer to manufacturer's instructions accompanying the material for specific mix design.

Rating Hr	Material Thickness-In.
2	1/2
3	1

UNITED STATES GYPSUM CO — Levelrock 4500

Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Type USG Sound Mat

Alternate Floor Mat Materials* — (Optional) - Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board

1G. **Alternate Floor Topping Mixture*** — Compressive strength to be 3000 psi minimum. Refer to manufacturer's instructions accompanying the material for specific mix design.

Rating Hr	Material Thickness-In.
2	1/2
3	1

UNITED STATES GYPSUM CO — Levelrock SLC

Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Type USG Sound Mat

Alternate Floor Mat Materials* — (Optional) - Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board

2. **Precast Concrete Units*** — Nom 8, 10 or 12 in. deep by 4 ft wide units. Normal weight aggregate, cross-section similar to above illustration.

CORESLAB STRUCTURES INC

CORESLAB STRUCTURES (ONT) INC

LARRY E KNIGHT INC

SAY-CORE INC

3. **End Detail** — Restrained and Unrestrained.

4. **Joint** — (Not Shown) — Grouted full length with sand-cement grout unless concrete topping is used.

Note: A 3/8 in. wide lateral expansion joint to be provided the full length and depth of the slabs for each 14 ft of width. Expansion obtained with noncombustible, compressible material, for example 6 sheets of 1/8 in. thick ceramic fiber paper.

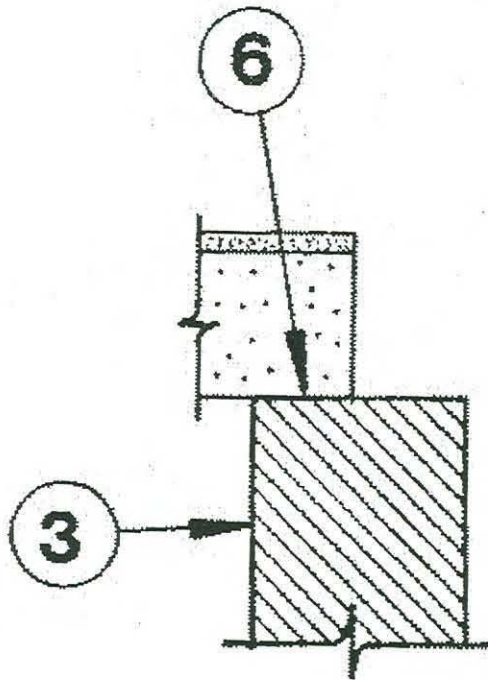
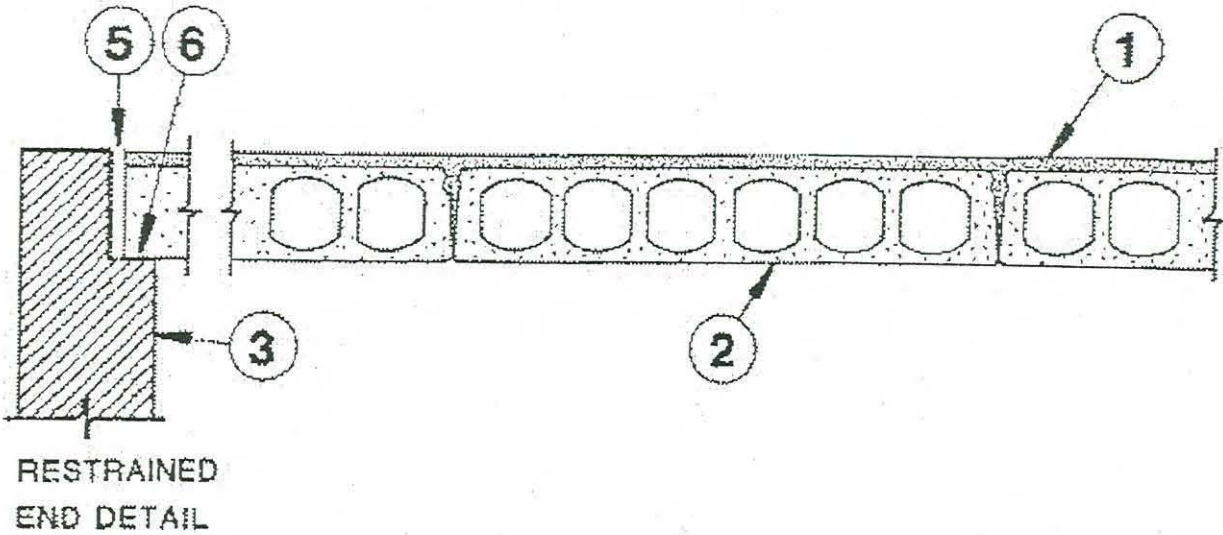
5. **End Clearance** — Clearance for expansion at each end of slab shall be equal to $(L/17) \times (1/4 (+ \text{ or } -) 1/16)$ in. where "L" is equal to length of span in ft.

6. **Min Bearing** — 1-1/2 in. for assembly rating of 3 hr or less and 3 in. for assembly

July 25, 2003

Restrained Assembly Ratings — 2, 3 and 4 Hr.

Unrestrained Assembly Rating — 2 Hr.



UNRESTRAINED END DETAIL

1. **Concrete Topping** — 3000 psi compressive strength, 110 to 153 pcf unit weight.

Assembly Rating Hr	Min Topping Thkns In.
2	0
3	1-1/2
4	2-5/8

2. **Precast Concrete Units*** — Nom 8, 10 or 12 in. deep by 4 ft. wide units. Normal weight aggregate, cross-section similar to above illustration.

ATMI DYNACORE

CORESLAB STRUCTURES INC

CORESLAB STRUCTURES (ONT) INC

LARRY E KNIGHT INC

3. **End Detail** — Restrained and Unrestrained.

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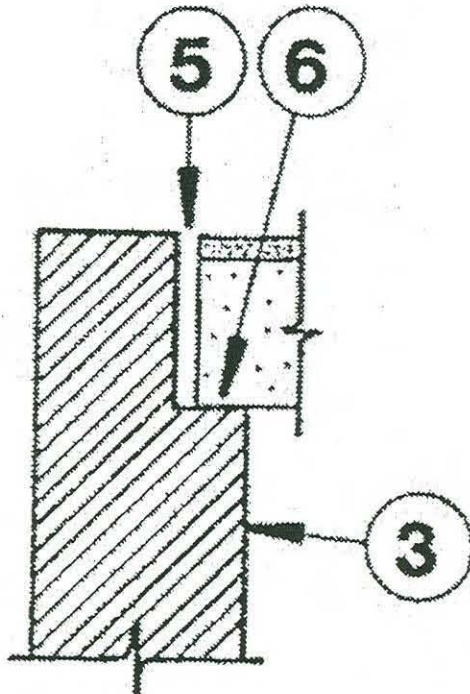
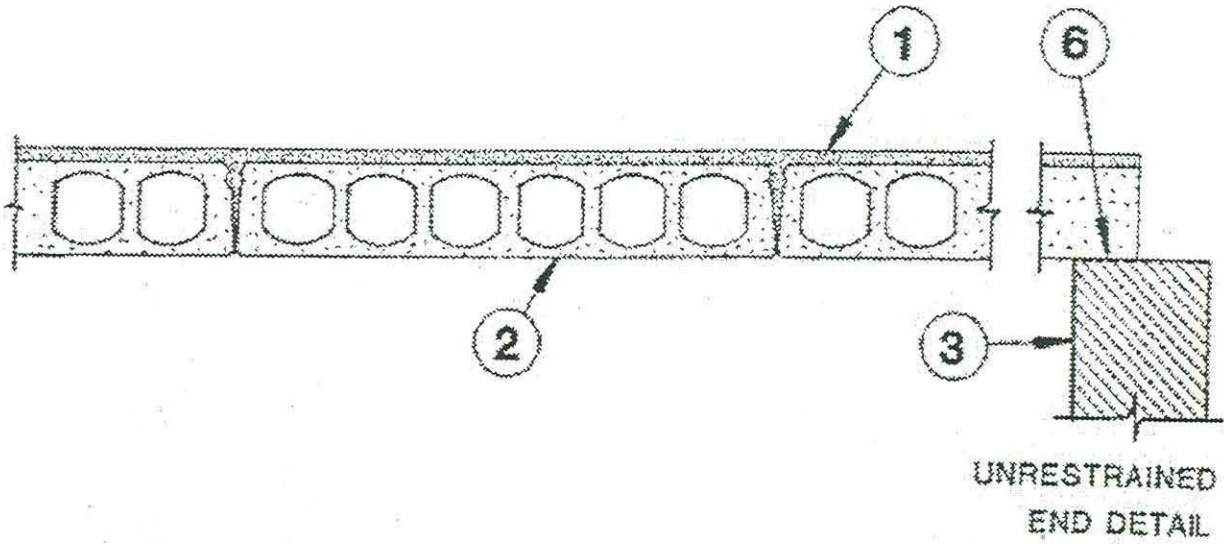
5. **End Clearance** — Clearance for expansion at each end of slab shall be equal to $(L/17) \times (1/4 (+or-) 1/16)$ in. where "L" is equal to length of span in feet.

6. **Min Bearing** — 1-1/2 in. for assembly rating of 3 hr or less and 3 in. for assembly rating of 4 hr.

July 25, 2003

Restrained Assembly Ratings — 1-1/2, 2, 3, 4 Hr.

Unrestrained Assembly Rating — 1-1/2 Hr.



RESTRAINED END DETAIL

1. **Concrete Topping** — 3000 psi compressive strength, 110 to 153 pcf unit weight.

Assembly Rating Hr	Min Topping Thkns In.
1-1/2	0
2	1
3	2-1/8
4	3-3/8

1A. **Floor Topping Mixture*** — (Alternate to concrete topping) — 8 gal max water to 80 lbs min of floor topping mixture to 180 lbs max of sand compressive strength, 1000 psi.

Rating Hr	Mtl Thkns In.
2	1/2
3	1

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 4010, Firm-Fill High Strength and Gyp-Span Radiant.

Floor Mat Materials* — (Optional) — Floor mat material nom 1/4 in. thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/2 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Sound-Mat.

1B. **Alternate Floor Topping Mixture*** — 3 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.0 to 2.1 cu ft of sand. Compressive strength to be 1000 psi min. Min thickness to be 3/4 in.

Rating Hr	Mtl Thkns In.
2	1/2
3	1

MAXXON CORP — Type D-C, GC, GC 2000, L-R or T-F.

Floor Mat Materials* — (Optional) — Floor mat material nom 1/4 in. thick adhered to subfloor with Maxxon Floor Primer. Primer to be applied to the surface of the mat prior to lath placement.

MAXXON CORP — Type Acousti-Mat.

Metal Lath — For use with floor mat material, 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Floor topping thickness a nom 1 in. over the floor mat.

Alternate Floor Mat Materials* (Optional)— Floor mat material nom 1/4 in. thick loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness a min 1 in. over the floor mat.

MAXXON CORP — Type Acousti-Mat II.

1C. Alternate Floor Topping Mixture* — Compressive strength to be 1500 psi minimum.

Rating Hr	Material Thickness-In.
2	1/2
3	1

UNITED STATES GYPSUM CO — Levelrock 2500, Levelrock RH

Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Type USG Sound Mat

Alternate Floor Mat Materials* — (Optional) - Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board

1D. Alternate Floor Topping Mixture* — Compressive strength to be 2100 psi minimum. Refer to manufacturer's instructions accompanying the material for specific mix design.

Rating Hr	Material Thickness-In.
2	1/2
3	1

UNITED STATES GYPSUM CO — Levelrock 3500, Levelrock Commercial RH

Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Type USG Sound Mat

Alternate Floor Mat Materials* — (Optional) - Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board

1E. Alternate Floor Topping Mixture* — Compressive strength to be 3000 psi minimum. Refer to manufacturer's instructions accompanying the material for specific mix design.

Rating Hr	Material Thickness-In.
2	1/2
3	1

UNITED STATES GYPSUM CO — Levelrock 4500

Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Type USG Sound Mat

Alternate Floor Mat Materials* — (Optional) - Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board

IF. Alternate Floor Topping Mixture* — Compressive strength to be 3000 psi minimum. Refer to manufacturer's instructions accompanying the material for specific mix design.

Rating Hr	Material Thickness-In.
2	1/2
3	1

UNITED STATES GYPSUM CO — Levelrock SLC

Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Type USG Sound Mat

Alternate Floor Mat Materials* — (Optional) - Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board

1G. Alternate Floor Topping Mixture* — 4 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.4 to 1.9 cu ft of sand. Compressive strength to be 1200 psi min. Min thickness to be 3/4 in.

Rating Hr	Material Thickness-In.
2	1/2
3	1

RAPID FLOOR SYSTEMS — Type RF, RFP or RFU.

Floor Mat Materials* — (Optional)- Floor mat material nom 1/4 in. thick adhered to subfloor with Maxxon Floor Primer. Primer to be applied over the surface of the mat prior to lath placement.

MAXXON CORP — Type Acousti-Mat.

Metal lath — For use with floor mat material; 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Floor topping thickness a nom 1 in. over the floor mat. **Alternate Floor Mat Material*** — (Optional)- Floor mat material nom 1/4 in. thick loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness a min 1 in. over the floor mat.

MAXXON CORP — Type Acousti-Mat II.

2. **Precast Concrete Units*** — Nom 8, 10 or 12 in. deep by 4 ft wide units. Carbonate aggregate concrete, cross-section similar to above illustration.

CORESLAB STRUCTURES INC

CORESLAB STRUCTURES (ONT) INC

LARRY E KNIGHT INC

OLDCASTLE PRECAST INC

3. **End Details** — Restrained and Unrestrained.

4. **Joint** — (Not Shown) — Grouted full length with sand-cement grout unless concrete topping is used.

Note: A 3/8 in. wide lateral expansion joint to be provided the full length and depth of the slabs for each 14 ft of width. Expansion obtained with noncombustible, compressible material, for example 6 sheets of 1/8 in. thick ceramic fiber paper.

5. **End Clearance** — Clearance for expansion at each end of slab shall be equal to $(L/17) \times (1/4 (+ \text{ or } -) 1/14)$ in. where 1 "L" is equal to length of span in feet.

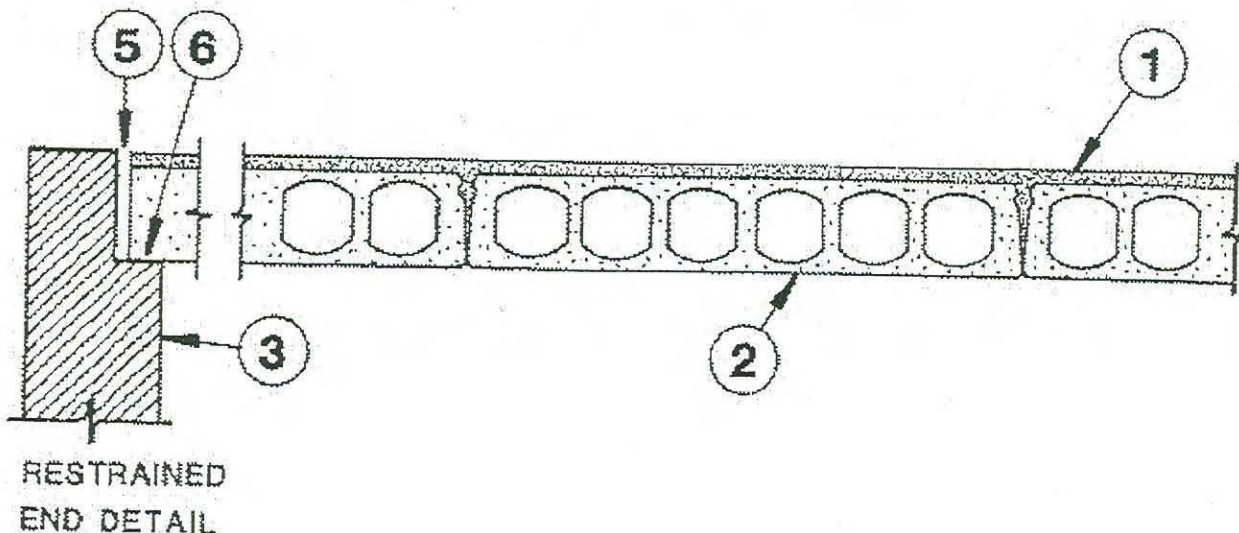
6. **Min Bearing** — 1-1/2 in. for assembly rating of 3 hr or less and 3 in. for assembly rating of 4 hr.

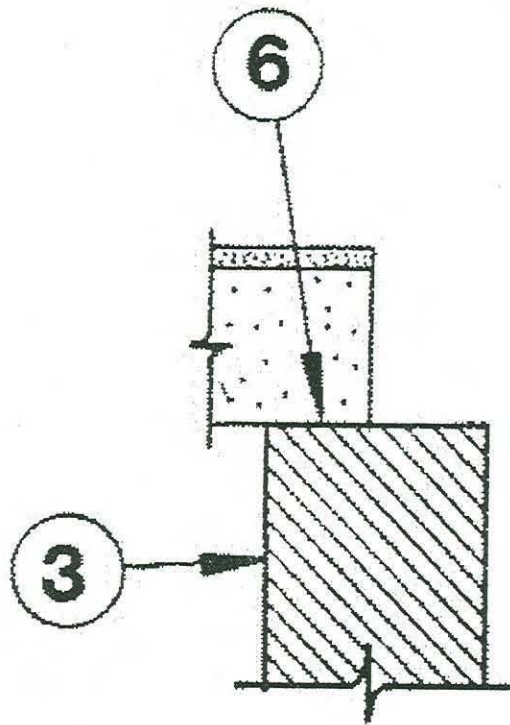
Design No. J995

July 25, 2003

Restrained Assembly Ratings — 2, 3 and 4 Hr.

Unrestrained Assembly Rating — 2 Hr.





UNRESTRAINED END DETAIL

1. Concrete Topping — 3000 psi compressive strength, 110 to 153 pcf unit weight.

Assembly Rating Hr	Min Topping Thkns In.
2	0
3	1-1/2
4	2-5/8

2. Precast Concrete Units* — Nom 8, 10 or 12 in. deep by 4 ft wide units. Carbonate aggregate, cross-section similar to above illustration.

ATMI DYNACORE

CORESLAB STRUCTURES INC

GAGE BROS CONCRETE PRODUCTS INC

CORESLAB STRUCTURES (ONT) INC

KERKSTRA PRECAST INC

LARRY E KNIGHT INC

OLDCASTLE PRECAST INC

3. End Detail — Restrained and Unrestrained.

4. Joint (not shown) — Grouted full length with sand-cement grout unless concrete topping is used.

Note: A 3/8 in. wide lateral expansion joint to be provided the full length and depth of the slabs for each 14 ft of width. Expansion obtained with noncombustible, compressible material, for example 6 sheets of 1/8 in. thick ceramic fiber paper.

5. End Clearance — Clearance for expansion at each end of slab shall be equal to $(L/17) \times (1/4 \text{ +/or- } 1/16)$ in. where "L" is equal to length of span in ft.

6. Min Bearing — 1-1/2 in. for assembly rating of 3 Hr. or less and 3 in. for assembly rating of 4 Hr.

Recommendation — That the assemblies shown above be accepted as having the hourly fire resistance listed for floor and ceiling assemblies provided the following conditions are complied with:

1. Structural requirements shall comply with Article 10, Reference Standard RS 10-3 and other applicable provisions of the Building Code
2. Minimum bearing on supports as specified in UL file R21476 must be provided. The acceptance of this assembly is limited to fire resistance only. Structural and other requirements shall be in compliance with pertinent Building Code provisions and above-mentioned limitations.

All shipments and deliveries of such materials shall be accompanied by a certificate or label certifying that the materials shipped or delivered are equivalent to those tested and acceptable for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance Sep 25/03

Examined by S Derkidan