



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JIM BOXOLD
SECRETARY

December 28, 2015

Khoa Nguyen
Director, Office of Technical Services
Federal Highway Administration
3500 Financial Plaza, Suite 400
Tallahassee, Florida 32312

Re: State Specifications Office
Section **949**
Proposed Specification: **9490000 Miscellaneous Components for Manholes, Inlets,
and Other Structures.**

Dear Mr. Nguyen:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

The changes are proposed by Amy Tootle of the State Construction Office to require all construction-related documentation to be submitted by electronic means for consistency with the State Construction Office e-Construction initiative.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to daniel.scheer@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at 414-4130.

Sincerely,

Signature on file

Daniel Scheer, P.E.
State Specifications Engineer

DS/dt

Attachment

cc: Florida Transportation Builders' Assoc.
State Construction Engineer

MISCELLANEOUS COMPONENTS FOR MANHOLES, INLETS AND OTHER STRUCTURES.

(REV 10-26-15)

SECTION 949 is deleted and the following substituted:

949-1 Clay Brick and Shale Brick.

This brick shall meet the requirements of ASTM C62, Grade MW or ASTM C32, Grade MM.

949-2 Concrete Brick.

Concrete brick shall meet the requirements of ASTM C55.

949-3 Concrete Masonry Units.

Concrete masonry units for use in manholes, inlets and similar structures shall meet the requirements of ASTM C139.

949-4 Precast Grade Adjustment Rings.

Precast grade adjustment rings shall meet the requirements of ASTM C478.

949-5 Composite Rubber Adjustment Rings.

Composite rubber adjustment rings shall meet the following minimum material requirements:

Physical Properties	Requirements	Test Method
Density, lb./ft ³	65 ± 5%	ASTM D3574-05, Test A
Durometer Hardness, Molded Surfaces, Shore A	75A ± 10	ASTM D2240-05
Tensile Strength, psi	145 (minimum)	ASTM D412-06
Ultimate Elongation %	15 ± 5	ASTM D412-06
Compression Deformation %, Initial	6 ± 2	ASTM D575-91(01)
Compression Deformation %, Final	6 ± 2	ASTM D575-91(01)
Coefficient of Thermal Expansion	10x10 ⁻⁵ ± 5x10 ⁻⁵	ASTM E831-05

949-6 Acceptance.

~~Provide~~ **Submit** to the Engineer a certification from the manufacturer stating that the bricks, concrete masonry units, precast grade adjustment rings or composite rubber adjustments rings meet the requirements of this Section. Acceptance of materials will be in accordance with Section 6.

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Physical Properties	Requirements	Test Method
Density, lb./ft ³	$65 \pm 5\%$	ASTM D3574-05, Test A
Durometer Hardness, Molded Surfaces, Shore A	$75A \pm 10$	ASTM D2240-05
Tensile Strength, psi	145 (minimum)	ASTM D412-06
Ultimate Elongation %	15 ± 5	ASTM D412-06
Compression Deformation %, Initial	6 ± 2	ASTM D575-91(01)
Compression Deformation %, Final	6 ± 2	ASTM D575-91(01)
Coefficient of Thermal Expansion	$10 \times 10^{-5} \pm 5 \times 10^{-5}$	ASTM E831-05

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