

## SUDAS Revision Submittal Form

Status Date: As of 5/18/2022 Topic: Composite castings  
Manual: Specifications Manual Location: Section 6010, 2.10, C

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**Requested Revision:**

**2.10 CASTINGS (Ring, Cover, Grate, and Extensions)**

A. Gray Cast Iron: AASHTO M 306.

B. Ductile Iron: ASTM A 536, Grade 80-55-06 or 70-50-05.

**C. Composite: AASHTO M 306.**

**1. Hardware:** Attach lid to frame with 316 stainless steel hardware.

**2. Slip Resistance:** Greater than 0.6 when tested according to ASTM C 1028.

**3. Ultraviolet Resistance:** Meet ASTM G 154 Cycle 1 for a minimum of 1,000 hours.

**4. Detection:** Must be detectable using standard detection equipment.

**CD. Load Capacity:** Standard duty unless otherwise shown on the casting figures.

1. **Standard Duty:** Casting certified for 40,000 pound proof-load according to AASHTO M 306.

2. **Light Duty:** Casting certified according to requirements of AASHTO M 306 for a 16,000 pound proof-load (HS-20). 40,000 pound proof-load is not required

**Reason for Revision:** Adding composite casting as an alternative product.

**Comments:** None.

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**District:**  1  2  3  4  5  6

**Comments:** None.

**Action:**  Deferred  Not Approved  Approved

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**District:**  1  2  3  4  5  6

**Comments:** Clarify it has to be bolt-down. *Note - not actually a bolt; used "attach lid" instead.*

**Action:**  Deferred  Not Approved  Approved

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**District:**  1  2  3  4  5  6

**Comments:** Some concerned about using in street; others about maintenance staff needing tools to remove lid. Majority of group approved anyway.

**Action:**  Deferred  Not Approved  Approved

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**Final District Action Summary:** All 6 districts approved.

**Board of Directors Action:** Approved.