

ICC-ES Evaluation Report


ESR-5516

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<p>DIVISION: 03 00 00— CONCRETE</p> <p>Section: 03 20 00— Concrete Reinforcing</p> <p>Section: 03 21 00— Reinforcement Bars</p>	<p>REPORT HOLDER:</p> <p>CMC STEEL OKLAHOMA, LLC (DBA CMC GALVABAR)</p>	<p>EVALUATION SUBJECT:</p> <p>GALVABAR ASTM A1094</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024 and 2021 [International Building Code® \(IBC\)](#)

Properties evaluated:

- Physical
- Structural

2.0 USES

GalvaBar ASTM A1094 is used as an alternative to ASTM A767 zinc-coated steel deformed bars specified in Section 20.5.2.1 of ACI 318-19 for reinforcement in concrete structures.

3.0 DESCRIPTION

GalvaBar ASTM A1094 is #6 ASTM A615 or ASTM A706 deformed steel reinforcing bars with a protective zinc-alloy coating applied by the continuous hot-dip process in accordance with ASTM A1094.

4.0 DESIGN AND INSTALLATION

4.1 Design:

GalvaBar ASTM A1094 must be designed in accordance with ACI 318-19 and Chapter 19 of the IBC, as applicable. The registered design professional must be responsible for determining, through analysis, the strengths and demands of the structural elements, subject to the approval of the building official.

4.2 Installation:

GalvaBar ASTM A1094 must be installed in accordance with the approved drawings and applicable codes. Reinforcement details, including tolerances, concrete cover and reinforcement supports, must comply with the applicable provisions in ACI 318-19.

4.3 Special Inspection:

Special inspection is required in accordance with Table 1705.3 of the IBC. In addition, the special inspector must verify the following:

1. GalvaBar ASTM A1094 is of the type and size specified in this report and is labeled in accordance with Section 7.0 of this report.
2. GalvaBar ASTM A1094 is placed within tolerances set forth in ACI 318-19 and is adequately supported and secured to prevent displacement during concrete placement.

3. The minimum concrete cover is in accordance with ACI 318-19.
4. The placement, quantity, and size of the GalvaBar ASTM A1094 comply with the approved drawings and specifications.

5.0 CONDITIONS OF USE:

The GalvaBar ASTM A1094 described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The construction documents, including plans and calculations, prepared, or reviewed by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed specifying the GalvaBar ASTM A1094 must indicate compliance with this evaluation report and applicable codes and must be submitted to the code official for approval.
- 5.2 Reinforcement shall comply with sections 20.2.1.3 (a), (b) or (c), and 20.5.2.2 of ACI 318-19.
- 5.3 Concrete shall comply with section 4.2.1 of ACI 318-19. ACI 318 is referenced in Section 1901.2 of the IBC.
- 5.4 Calculation of l_d , the modification factor Ψ_e for GalvaBar shall be the same as for uncoated or zinc-coated (galvanized) reinforcement listed in Table 25.4.2.5 of ACI 318-19.
- 5.5 GalvaBar must be stored in accordance with the requirements of ASTM A1094.
- 5.6 Special inspection must be provided in accordance with Section 4.3 of this report.
- 5.7 GalvaBar ASTM A1094 is manufactured in the CMC GalvaBar facility in Catoosa, Oklahoma, under quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Test data in accordance with ASTM A944 and ASTM A1094.
- 6.2 Quality control documentation complying with the [ICC-ES Acceptance Criteria for Quality Documentation \(AC10\)](#).

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5516) along with the name, registered trademark, or registered logo of the report holder must be included in the product identification.
- 7.2 In addition, GalvaBar ASTM A1094 is identified by packaging labeled with product name, bar size, and lot number.
- 7.3 The report holder's contact information is the following:

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