

Submitted for recognition as an American National Standard

(R) Wide Base Disc Wheels and Demountable Rims

1. **Scope**—This SAE Recommended Practice establishes uniform engineering nomenclature for wide base disc wheels and demountable rims. This nomenclature and accompanying figures are intended to define fundamental wide base disc wheels and demountable rim terms. The dimensions given are those necessary to maintain serviceability and interchangeability of the wide base disc wheels and demountable rims with standard hardware.
2. **References**
- 2.1 **Applicable Publications**—The following publications form a part of the specification to the extent specified herein. Unless otherwise indicated, the latest revision of SAE publications shall apply.
- 2.1.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.
- SAE J393—Nomenclature—Wheels, Hubs, and Rims—Form Commercial Vehicles
- 2.2 **Related Publications**—The following publications are provided for information purposes only and are not a required part of this document.
- 2.2.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.
- SAE J694—Disc Wheel/Hub or Drum Interface Dimensions—Commercial Vehicles
SAE J851—Dimensions—Wheels for Demountable Rims, Demountable Rims, and Rim Spacers—Commercial Vehicles
- 2.2.2 ISO PUBLICATION—Available from ANSI, 11 West 42nd Street, New York, NY 10036-8002.
- ISO 4107—Wheels for Commercial Vehicles—Dimensional Characteristics of Attachment on Hub
- 2.2.3 OSHA PUBLICATION—Available from ????
- OSHA Standard 29 CFR part 1910.177—Servicing of Multi-Piece and Single-Piece Rim Wheels
- 2.2.4 TIRE AND RIM ASSOCIATION PUBLICATION—Available from the Tire and Rim Association Inc., 175 Montrose West Avenue, Suite 150, Copley, OH 44321.
- Yearbook, The Tire & Rim Association Inc.

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3. Definitions

3.1 Wide Base Disc Wheels and Demountable Rims—15° tubeless wheels and rims with a 19.5 and 22.5 rim diameter code with a rim width of 266.7 mm (10.50 in) or wider.

3.2 Basic Nomenclature—A detailed listing of basic nomenclature is contained in SAE J393. Figures 1, 2, 3, and 4 introduce, illustrate, and specify new nomenclature and definitions. All dimensions are in millimeters followed by inches in parentheses.

4. Wide Base Disc Wheels and Demountable Rims

4.1 Wide Base Disc Wheels—See Figures 1 and 2:

4.2 Wide Base Demountable Rims—See Figures 3 and 4:

4.3 Nomenclature

1. Rim Centerline
2. Wheel Inset
3. Wheel Outset
4. Adaptor
5. Mounting Band
6. Rim Offset
7. Dual Centerline with 101.6 mm (4 in) wide spacer
8. Axle Track
9. Zeraset

4.4 Dimensions

- a. A — Minimum clearance diameter under rim ledge
- b. B — Minimum clearance diameter under rim well
- c. C — One-half the change in axle track

4.5 Wide Base Disc Wheel and Demountable Rim Dimensions—See Table 1.

TABLE 1—WIDE BASE DISC WHEEL AND DEMOUNTABLE RIM DIMENSIONS

Rim Diameter Code	A Minimum mm	A Minimum in	B Minimum mm	B Minimum in
19.5	457.7	18.02	416.6	16.40
22.5	534.9	21.06	485.6	19.12

4.5.1 ADDITIONAL REAR DEMOUNTABLE RIM DIMENSIONS—See Table 2.

TABLE 2—ADDITIONAL REAR WIDE BASE DEMOUNTABLE RIM DIMENSIONS

Rim Size	C mm	C in
22.5x12.25	9.65 or 47.55	0.38 or 1.88
22.5x13.00	0 or 69.85	0 or 2.75

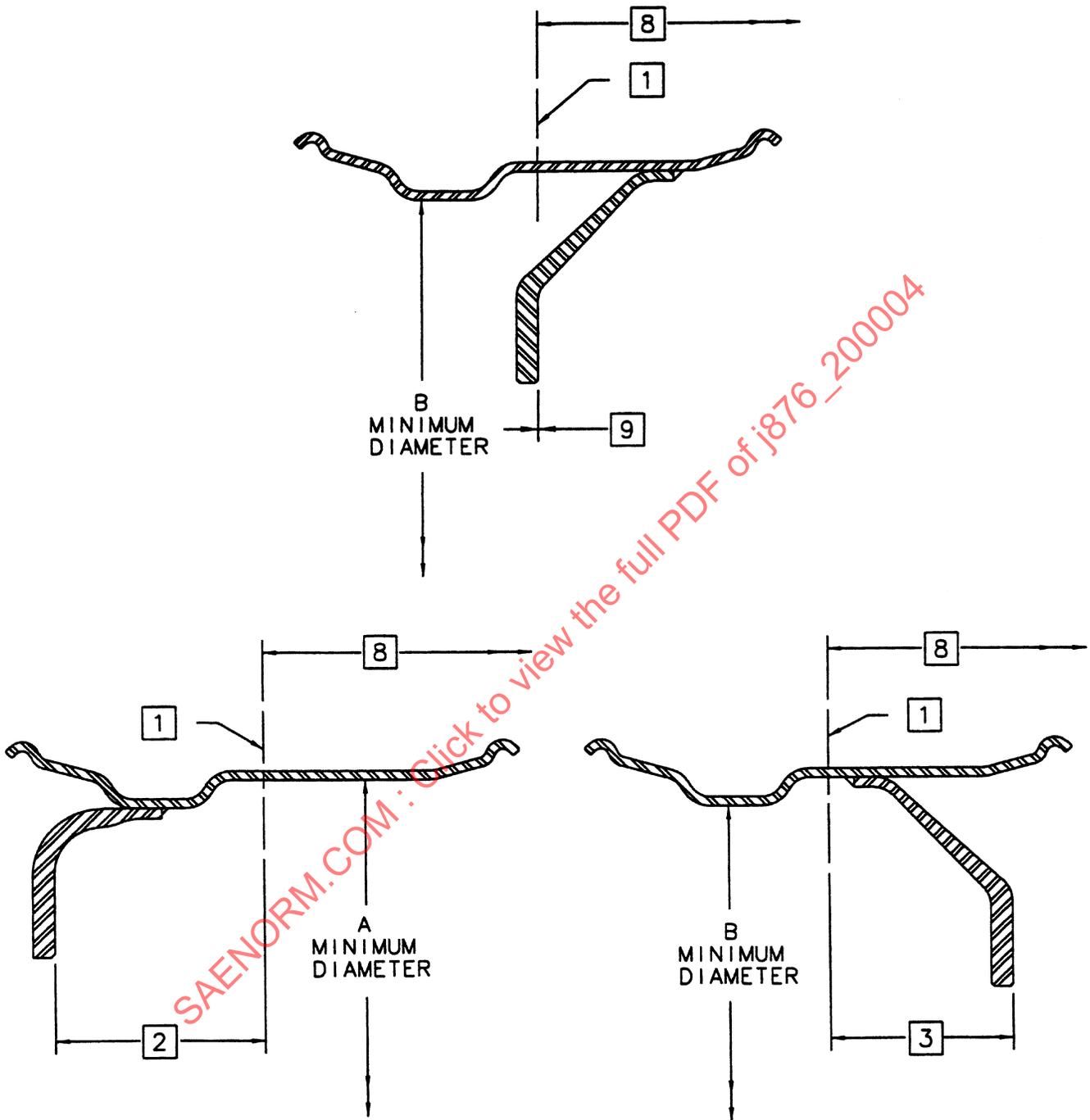


FIGURE 1—WIDE BASE DISC WHEELS (FERROUS)

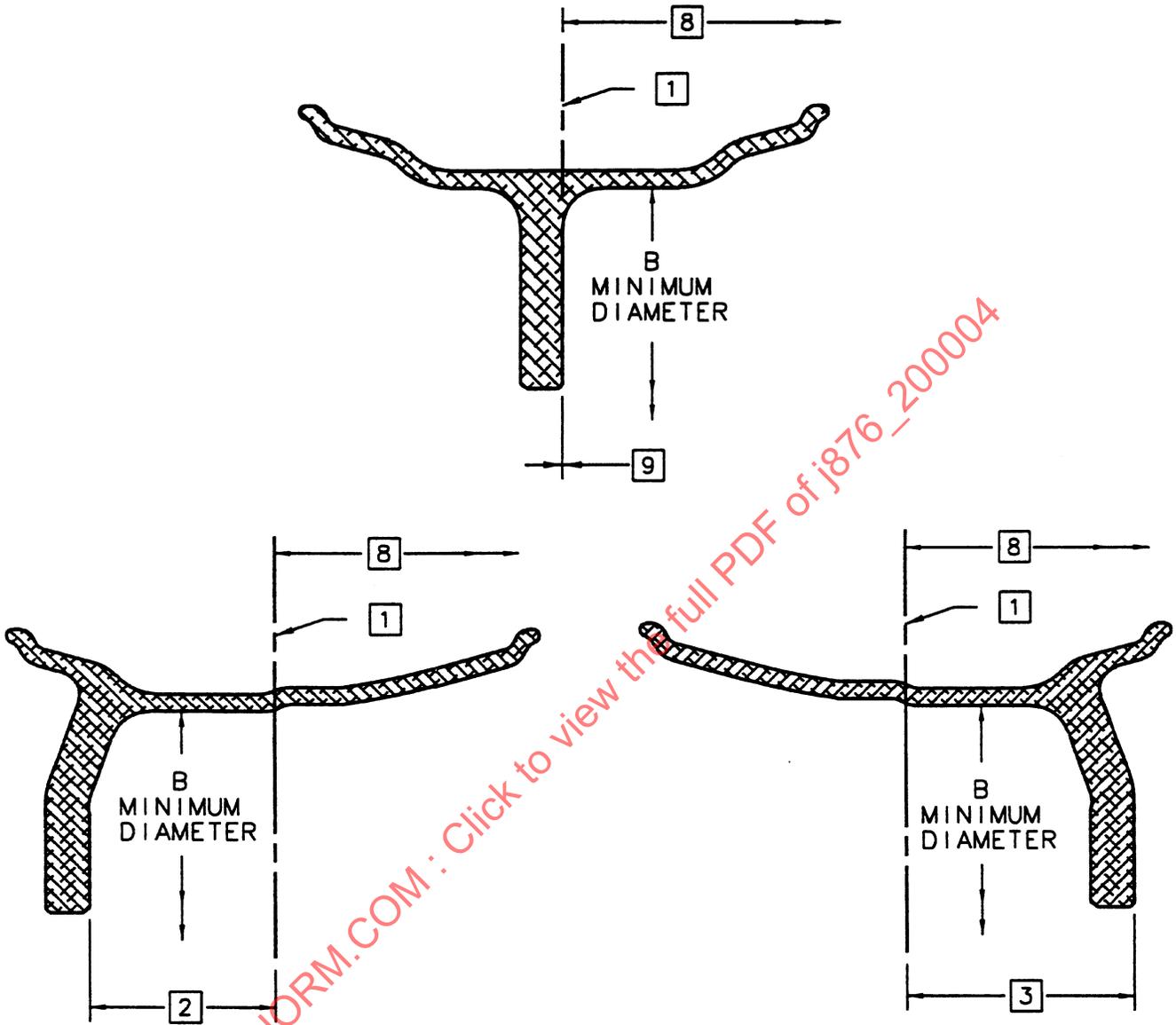


FIGURE 2—WIDE BASE DISC WHEELS (ALUMINUM)

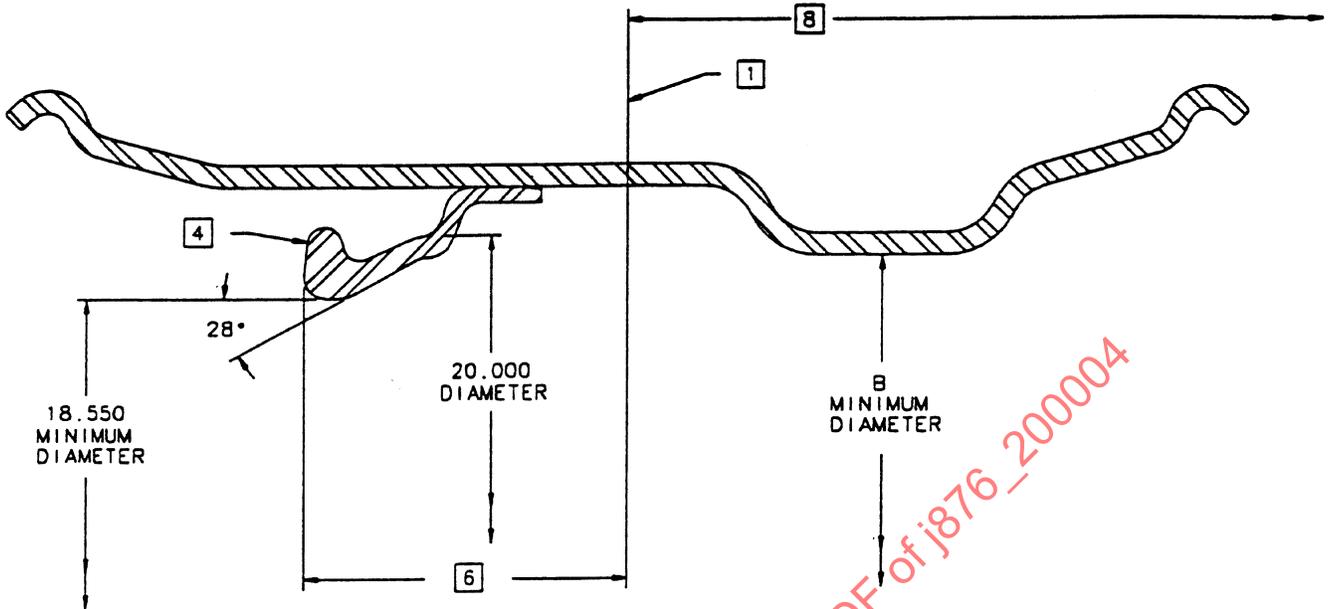


FIGURE 3—FRONT WIDE BASE DEMOUNTABLE RIM

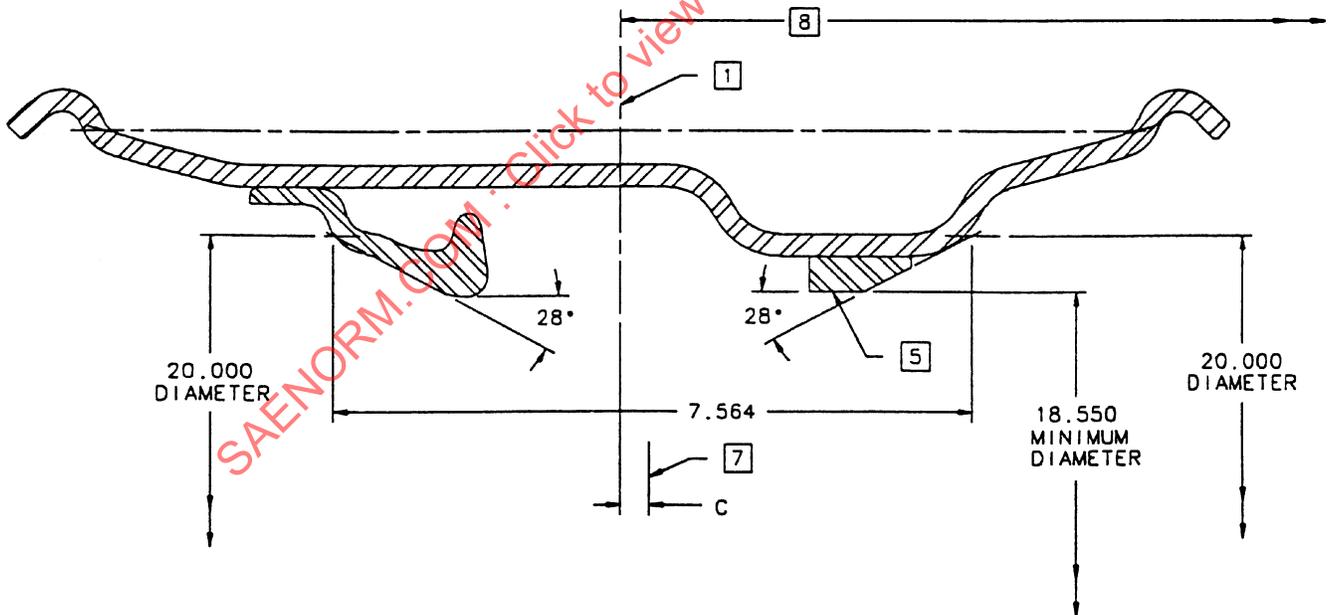


FIGURE 4—REAR WIDE BASE DEMOUNTABLE RIM