



## SERVICE INFORMATIONAL LETTER

**SL 2019-32-004**

**SUBJECT:** Radial Tire Sidewall Undulations

**USED ON:** Aircraft Using Goodyear Radial Tires

**AFFECTED TIRES:** Goodyear Radial Aircraft Tires.

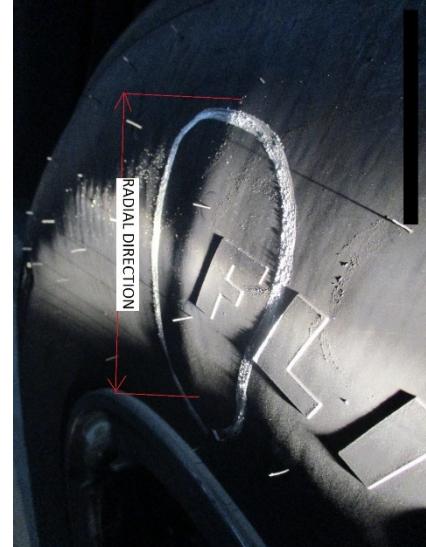
**BACKGROUND:** For the purpose of clarification and documentation, this Service Letter is to help operators determine tire serviceability by providing maximum recommended sidewall undulations on radial aircraft tires.

Radial aircraft tires are assembled with plies (layers) of rubber-coated nylon cords, which are oriented in a radial direction from bead to bead. The plies are held together during assembly by overlapping the ends. This can result in minor sidewall undulations, or protrusions, which are normal for radial tire construction. Visible sidewall undulations do not present safety or performance issues in continued service in accordance with the removal criteria stated below.

Sidewall Undulation



Sidewall Protrusion

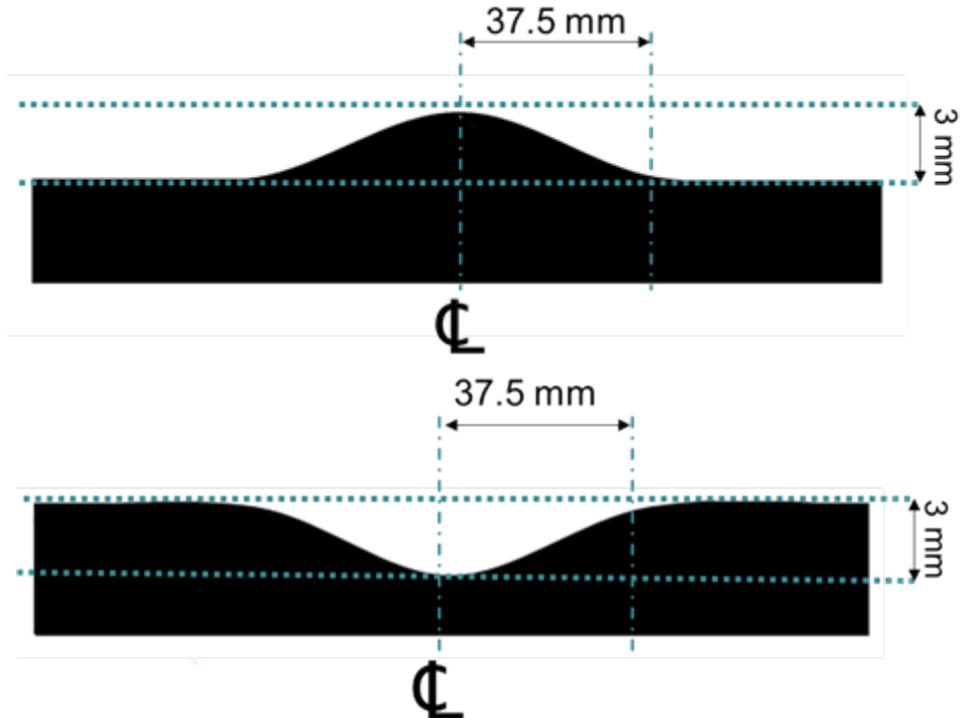


**REMOVAL CRITERIA FOR SIDEWALL UNDULATION:** Any radial tire with a sidewall undulation (depth or height) of 3 mm (0.12") or less may remain in service. Remove from service any tire with a sidewall undulation which exceeds 3 mm in depth, or height, at next maintenance opportunity.

**INSTRUCTIONS FOR MEASURING SIDEWALL UNDULATION:** To identify a sidewall undulation the following criteria should be applied:

1. Inspect each tire sidewall for undulations.
2. For any sidewall undulations found during inspection:
  - a. The undulation should run only in a radial path from the tread shoulder to the tire bead.
  - b. The undulation should not appear softer in comparison to the surrounding material.
  - c. The maximum permitted depth, or height, of any undulation is +/-3 mm from the surrounding 75 mm of sidewall, measured circumferentially.
    - i. This measurement may be taken anywhere along the length of the sidewall, from the area adjacent to the wheel to the tread edge.
3. Tires meeting these criteria can remain in service.

Measuring Undulations/Protrusions





**TECHNICAL ASSISTANCE:** Goodyear Product Support should be contacted for any further clarification:

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