

[Roof-covering Materials] Roof-covering Materials, Impact Resistance

[See General Information for Roof-covering Materials](#)

USE

This category covers Classes A, B and C roof-covering materials investigated for impact resistance.

Unless otherwise indicated in the individual certifications, the roof coverings are intended for application to solid wood decks, including 3/8-in. thick (minimum) plywood or 3/8-in. thick (minimum) nonveneer APA Rated Series Sheathing (oriented strandboard, structural particleboard, composite panels, or waferboard).

Unless otherwise indicated in the individual certifications, the certifications are applicable for new work only, not for recovering purposes.

Where indicated in the individual certifications, products covered under this category have also been evaluated by ICC Evaluation Service (ICC-ES).

CLASS DESIGNATIONS

The certifications for impact resistance are expressed as Class 1, 2, 3 or 4, which relate to a roof covering's ability to withstand impacts from 1-1/4, 1-1/2, 1-3/4 and 2 in. diameter steel balls, respectively. The acceptance criteria used to establish roof-covering materials certifications are as follows:

Prepared Roof-covering Materials

Withstand the assigned class designation impact without visible evidence of tearing, fracturing, cracking, splitting, rupture, crazing or other opening of the roof-covering layer.

Roofing Systems — Fluid-applied Coating Systems

Withstand the assigned class designation impact without visible evidence of tearing, fracturing, cracking, splitting, rupture, crazing or other opening which would expose the roof deck to the effects of weather.

Roofing Systems — Single-ply Membrane Systems

Withstand the assigned class designation impact without visible evidence of tearing, fracturing, cracking, splitting, rupture, crazing or other opening which would expose the substrate beneath the membrane to the effects of weather.

Roofing Systems — Spray-applied Foam and Coating Systems

Withstand the assigned class designation impact without visible evidence of tearing, fracturing, cracking, splitting, rupture, crazing or other opening which would expose the foam to the effects of weather.

Roofing Systems — Other Systems

Metal Roof Panels — Withstand the assigned class designation impact without visible evidence of tearing, fracturing, cracking, splitting, rupture, crazing or other opening of the roof-covering layer.

FACTORS NOT INVESTIGATED

The effects of weathering on the impact resistance of these materials have not been investigated.

ADDITIONAL INFORMATION

For additional information, see Roof-covering Materials ([TEVT](#)) and Roofing Materials and Systems ([AARM](#)).

REQUIREMENTS

In order to be eligible for certifications under this category, roof-covering materials must also be certified under Prepared Roof-covering Materials ([TFWZ](#)), Prepared Roof-covering Materials, Formed or Molded Metal, Fiber-Cement, Plastic or Fire-retardant-treated Wood ([TFXX](#)) or Roofing Systems ([TGFU](#)).

The certifications for impact resistance are derived from tests conducted in accordance with [UL 2218](#), "Impact Resistance of Prepared Roof-covering Materials."

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The Certification Mark of UL on the product or on the smallest unit packaging is the only method provided by UL to identify products manufactured under its Certification and Follow-Up Service. These products bear the Certification Mark for Prepared Roof-covering Materials ([TFWZ](#)), Prepared Roof-covering Materials, Formed or Molded Metal, Fiber-Cement, Plastic or Fire-retardant-treated Wood ([TFXX](#)) or Roofing Systems ([TGFU](#)).

UL MARK

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An optional marking may appear on each shingle, only when the complete Certification Mark noted above is provided on each smallest unit package. This

marking includes the UL symbol and the statement "IMPACT RESISTANCE CLASS +."

+ 1, 2, 3 or 4

Additional Certification Markings

Products covered under this category are additionally marked with the following information:

**ALSO CERTIFIED AS TO IMPACT RESISTANCE
CLASS +**

+ 1, 2, 3 or 4

Alternate UL Mark

The Classification Mark of UL on the product is the only method provided by UL to identify products manufactured under its Classification and Follow-Up Service. The Classification Mark for these products includes the appropriate Listing Mark for Prepared Roof-covering Materials (TFWZ), Prepared Roof-covering Materials, Formed or Molded Metal, Fiber-Cement, Plastic or Fire Retardant-treated Wood (TFXX), or Classification Mark for Roofing Systems (TGFU), and the following additional information:

**ALSO CLASSIFIED AS TO IMPACT RESISTANCE
CLASS +
Control No.**

In addition, an optional marking may appear on each shingle, only when the complete Listing/Classification Mark noted above is provided on each package. This marking includes the UL symbol, the word "CLASSIFIED" above the UL symbol (as illustrated in the Introduction of this Directory), and the statement "IMPACT RESISTANCE CLASS +."

+ 1, 2, 3 or 4

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