



TGAM.R27099 Roof-covering Materials, Impact Resistance

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SHEFFIELD METALS INTERNATIONAL

R27099

5467 EVERGREEN PKY
SHEFFIELD VILLAGE, OH 44054 USA

Class 4 formed coated steel panels designated "SMI 1\ SnapLock", "CR-150-ML", "SMI 1 ½" Mechanical Seam", "SMI 2" Mechanical Seam", "SMI 1 ½" SnapLock 450SL", "SMI 1 ½" SnapLock 450", "SMI 1 ¾" SnapLock", "SMI 2" A Mechanical Seam" or "SMI 1 1/2 " SnapLock 550".

[Last Updated](#) on 2012-02-27

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USE

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

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

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

CLASS DESIGNATIONS

The Classifications 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 Classifications 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.

UNEVALUATED FACTORS

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 Classification under this category, roof-covering materials must also be Listed under Prepared Roof-covering Materials ([TFWZ](#)), Prepared Roof-covering Materials, Formed or Molded Metal, Fiber-Cement, Plastic or Fire Retardant-treated Wood ([TFXX](#)), or Classified under Roofing Systems ([TGFU](#)).

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

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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