

## Technical Bulletin

### CLASS A FIRE RATINGS AND UL 2218 HAIL IMPACT RATING

Sentrigard Metal Roofing Systems has a Class A fire rating and a class 4 hail impact rating by UL2218 for the following coated steel and aluminum panels: as "NS100", "NS150", "SL100", "SL150", "SL175", "ML100", "ML150", and "ML200".

Let's examine what these two ratings mean. First, the easier one is the UL2218 rating. The UL2218 test is a test to simulate hail impact. In order to pass this test a roof system must sustain an impact without penetrating the roof system or allowing it to leak due to the impact. It can, however, be dented by the impact. There are four levels of the test. Class 1 must resist a 1-1/4" diameter steel ball dropped from 12'. Class 2 must resist a 1-1/2" steel ball dropped from 14'. Class 3 must resist a 1-3/4" steel ball dropped from 17'. And Class 4, which we passed, must resist a 2" diameter steel ball dropped from 20'.

The class A fire rating in accordance with UL790 means roof coverings which are effective against severe fire exposure. According to UL, under such exposure, roof coverings of class A are not readily flammable and do not carry or communicate fire, afford a fairly high degree of fire protection to the roof deck, do not slip from position, possess no flying brand hazard, and do not require frequent repairs in order to maintain their fire resistance properties. In other words, our panels are noncombustible. This class A rating, however, is not an hourly fire rating. Metal panels conduct heat very easily and do not provide any kind of hourly rating. To obtain an hourly rating it requires layers of fire rated gypsum board or a similar product. Class A panels, however, can also be applied over an hourly fire rated system without violating the hourly rating.

A copy from UL's website of our approval is attached.

## Technical Bulletin

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# TGFU.R9288 Roofing Systems

## Roofing Systems

R9288

### OTHER SYSTEMS

#### Class A

Coated steel and aluminum panels identified as "NS100", "NS150", "SL100", "SL150", "SL175", "ML100", "ML150", and "ML200".

1. **Deck:** NC                      **Incline:** Unlimited                      **Impact:** 4

**Insulation (Optional):** — Polyisocyanurate/composite, polyisocyanurate, glass fiber, perlite or wood fiber, any thickness.

**Ply Sheet (Optional):** — Any UL Classified Type G1, G2 or G3 base/ply sheet, Type 15, 20 or 30 felt or UL Classified prepared roofing accessory or GCP Applied Technologies Inc. "Ice and Water Shield".

**Surfacing:** — Steel or aluminum roofing panels, mechanically fastened.

2. **Deck:** C-15/32                      **Incline:** Unlimited                      **Impact:** 4

**Barrier Board:** — 1/4 in. min G-P Gypsum DensDeck® or 1/2 in. min UL Classified gypsum board with all joints staggered a min of 6 in. from the plywood joints .

## Technical Bulletin

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**Ply Sheet (Optional):** — Any UL Classified Type G1, G2 or G3 base/ply sheet, Type 15 or 30 felt or UL Classified prepared roofing accessory or GCP Applied Technologies Inc. "Ice and Water Shield".

**Surfacing:** — Steel or aluminum roofing panels, mechanically fastened.

3. **Deck:** NC                      **Incline:** Unlimited                      **Impact:** 4

**Insulation (Optional):** — Polyisocyanurate board or polyisocyanurate composite board, any thickness.

**Barrier Board (Optional):** — 7/16 OSB or 5/8 in. plywood.

**Ply Sheet (Optional):** — Any UL Classified Type G1, G2 or G3 base/ply sheet, Type 15 or 30 felt or UL Classified prepared roofing accessory or GCP Applied Technologies Inc. "Ice and Water Shield".

**Surfacing:** — Steel or aluminum roofing panels, mechanically fastened.

[Last Updated](#) on 2016-10-05

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