



Bulletin # 2

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CRRC bulletins provide explanatory information about the operation of the CRRC Program Rating Program. Bulletins are issued as needed to address questions or problems.

Metal Roofing Products

Purpose

The purpose of this bulletin is to describe how the CRRC Program Rating Program relates to metal roofing products.

Characterization of the Industry

The manufacture of metal roofing products involves the flow of many products and materials. An industrial grade coating or paint is typically manufactured by one company and provided to another company that applies the coating to a coil of steel, which is provided by a steel coil manufacturer. The coated coil of steel is then provided to a fabricator that forms the coated steel into a roofing product. The fabricator then delivers the completed roofing product to the roofing manufacturer, who packages the material and brings it to market through distributors and/or contractors. This process is graphically illustrated in Figure 1.

Figure 1 is but one example of product flow in the metal roofing product industry. Sometimes the company that fabricates the roofing product is also the company that brings the product to market. Sometimes, the coil coater and the fabricator are the same company. Sometimes the fabrication phase is broken into separate steps, e.g. one fabricator might cut the coil of steel into individual parts which are provided to a second fabricator for forming into the final product.

CRRC Licensed Seller

The CRRC Licensed Seller is the business entity that brings the roofing product to market. The Licensed Seller brands and labels the product and offers it to distributors, contractors or retail sales outlets. The CRRC Licensed Seller may, in some cases, not really manufacture the roofing product they market. The consumer for roofing products is generally a roofing contractor, but can also include architects, building owners or building managers.

The Licensed Seller is responsible for obtaining test results from a CRRC Accredited Laboratory and for submitting the data to CRRC as part of a Product Rating application.

However, the Licensed Seller may rely on test results from a Licensed Other Manufacturer (OM), if the product or material provided by the OM is the sole determinant of the radiative properties of the final roofing product. See below.

CRRC Licensed OM

The CRRC licensed OM (Other Manufacturer) does not bring the final roofing product to market, but is responsible for the key component or material that determines the radiative properties of the roofing product that is finally brought to market. The licensed OM can have a CRRC accredited laboratory test

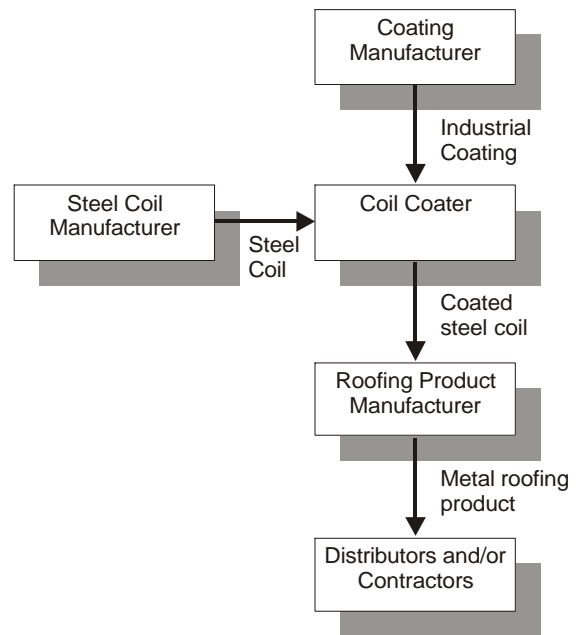


Figure 1 – Product Flow for Metal Roofing Products



the radiative properties of the component or material they make and those test results can be passed on to their customers for use in the CRRC Program Rating Program.

In this example of a metal roofing product, the coating manufacturer or the coil coater could perform the function of the licensed OM. The licensed OM must enter an agreement with the CRRC and must use CRRC accredited laboratories for all testing that is used as part of the CRRC Program Rating Program.

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Custom Colors

Custom colors are a special case of roofing products. While they are more common for metal roofing products, concrete tiles and other roofing products can be produced with custom colors. Custom color roofing products are produced in limited quantity and for a limited duration. They are produced for a single building or a group of buildings located on the same site.

Custom colors may be labeled and rated like production line roofing products, but the procedures are a little different. Custom colors may use an AMTL (accredited manufacturers testing laboratory) while production line roofing products must use an AITL (accredited independent testing laboratory). Furthermore, custom colors are not listed in the CRRC directory, since they are not marketed to other companies and there is no benefit of having the listing.

How to Participate in the Process:

Licensed Roofing Product Manufacturer

- Prepare and submit CRRC Licensed Seller Application and CRRC Manufacturer License Agreement
- Test roofing product at AITL
- Submit CRRC Product Rating Application. Include Quality Control Manager information, test report, fees, sample collection instructions, as discussed in CRRC Program manual, section 3.8
- Upon CRRC approval, CRRC will include product in CRRC database and directory; manufacturer can prepare labels and label product

Licensed OM

- Prepare and submit CRRC Licensed OM Application and CRRC OM License Agreement
- Test roofing product at AITL
- Provide test report on product to Licensed Seller that uses product in roofing products they will label
- CRRC Licensed Seller submits CRRC Product Rating Application
- Upon CRRC approval, CRRC will include product in CRRC database and directory; Licensed Seller can prepare labels and label product
- Licensed OM will supply CRRC with any test reports they supply to a Licensed Seller

Licensed Seller or Licensed OM Custom Color alternate

- AMTL can provide test report for custom colors only
- Upon CRRC approval of a Custom Color Roofing Product, CRRC issues Rating Authorization; Licensed Seller labels products.
- Other aspects of custom color are similar to production line roofing product

Arranging for product testing

- CRRC Licensed Seller or Licensed OM contacts CRRC Accredited Laboratory to arrange testing



- Laboratory and Licensed Seller or OM agree on proper tests for product to determine solar reflectance and thermal emittance, test sample requirements, timing, testing fees
- Licensed Seller or OM delivers test samples to laboratory
- Laboratory tests product samples and renders test report to Licensed Seller or OM

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Applying for product rating

- Prepare and submit Product Rating Application
- Include other items with Product Rating Application:
 - Quality control manager name and contact information
 - Submission fee (if required)
 - Product test report
 - Field sample collection instructions
 - Any other pertinent information for product rating