

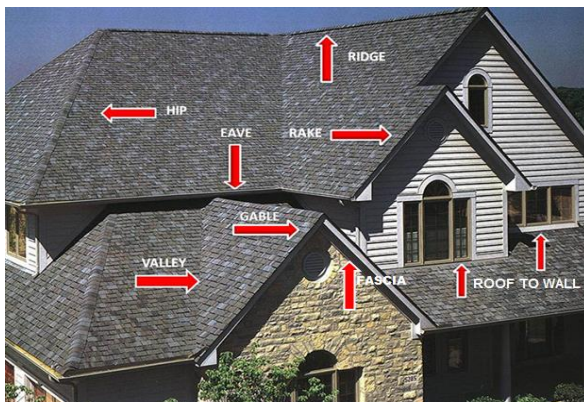
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## 2015 Michigan Residential Code

### Asphalt Roofing Guide

- Sheathing minimum 7/16" O.S.B. (Section R503.2.1.1 (1))
- Supply 1/150 ventilation, 1/2 from ridge & 1/2 from overhangs (Section R806)
- Roof Underlayment (Section R905.1.1)
- Roof Shingles (Section R905.2.4.1)
- Drip Edge (Section R905.2.8.5 – over underlayment on rake edges, under on eaves)
- Ice Guard (Section R905.1.2 – not less than 24 inches inside the exterior wall)
- Install approved flashings at wall/roof intersections; gutters; when there's a change in roof slope/direction; and around all roof openings. (Section R905.2.8)
- Roof Recovering vs. Replacement:  
New roof coverings shall not be installed without first removing the existing coverings when any of the following conditions occur:
  - a. When the existing roof or roof covering is water soaked or has deteriorated to the point that it is not acceptable as a base for additional roofing.
  - b. When the existing roof covering is wood shake, slate, clay, cement, or asbestos-cement tile.
  - c. When the existing roof has two or more applications of any type of roof covering.
- Dispose of roof materials in a lawful way.





## Metal Roofing Guide

Metal roofing systems come in basically two types, corrugated and standing seam. Some can be installed over the existing roof system, some cannot. The following is a breakdown between them.

### Metal Corrugated Panels:

- Metal roofing panels for 3:12 roof pitch and up (Section R905.10.2)
- Fasteners are surface penetrations (Section R905.10.4)
- Typical steel gauge ranges from 29 to 26
- Some manufactures will permit installation over existing roof with requirements.
  - Installation of an underlayment, minimum 30lb. felt (Section R905.1.1)
  - Purlins installed every 24 inches

### Metal Standing Seam Panels:

- Metal roofing solutions for 3:12 roof pitch and up (Section R905.10.2)
- Fasteners are hidden, each panel overlays the brackets/screws (Section R905.10.4)
- Typical steel gauge is 24
- Standing seam roofing solutions typically cannot go over the existing roof system, must be installed on the roof deck. Minimum is 30lb. felt underlayment (Section R905.1.1)

### Metal Shingles:

- Metal roofing shingles for 3:12 roof pitch and up (Section R905.10.2)
- Underlayment (Section R905.1.1)
- Ice barrier (Section R905.1.2)

### Required Project Details:

- Detailed plans for installation including manufactures installation specifications for the metal panels or shingles, any accessories and trim.
- Open roof inspection for the decking, underlayment, ice barrier, and purlins (if required).
- Final inspection includes rake and eave trim installation.