

## **Re-roofing Building Guide Requirements Specific to the City of Louisville**

(References for below: IRC & IBC/ Louisville Policy)

- ❖ Permits are required on all work, new or re-roofing projects and must be issued and on site prior to work (R105.1) Permit cards must be visible from the street. (R105.7/Louisville Policy).
- ❖ All areas in the City of Louisville are considered **high wind areas** and are based on the Colorado Front Range Gust Map dated February 28, 2006.
- ❖ Replacement of Asphalt Shingles: Most manufacturers and contractors require full replacement as they will not warranty partial replacement if shingle types are mixed on any level of damage or repair.
- ❖ Design Criteria:
  - All residential neighborhoods are in the **115 mph (3 second gust)** and **100 mph (fastest mile)** wind zone. Due to this design wind speed, the International Residential Code and the International Building Code require asphalt shingles to be tested in accordance with ASTM D3161, Class F or may be tested to ASTM D7158, Class G or H.
  - Shingles must be high wind rated and have **at least 6 nails per shingle**.
  - A **maximum of 2 layers** of any type of roof covering is allowed (R907.3 (4)).
  - Ice Barrier (aka Ice and Water Barrier): The City of Louisville requires ice barrier on **ALL** shingled roofs. **Ice barrier shall extend from the lowest edges of all roof surfaces to a point at least 24 inches inside the exterior wall line of the building.** (On Eaves only) (R908.2.7.1)
  - Drip Edge: Drip edge will be required on all roof edges, **rakes as well as on eaves**. (IRC & IBC Section R905/Section 1507 respectively)
  - Step Flashing: Minimum 4"x4" required – one piece on every row. (R905.2.8.3)
  - Underlayment: (For Complete Tear Offs): For roofs with slopes of 4:12 or greater, one layer of underlayment is required. For roofs with slopes between 2:12 and 4:12, two layers of underlayment are required or use ice and water shield. (R905.2.7)
- ❖ Inspections:
  - **If you want to know about calling in an inspection, click [here](#).**
  - **Ladders** must be on site and secure for **only mid-roof** inspections.
  - **You must have your installation instructions (manufactured specifications) on site for your inspections.**
  - All permits require a **mid-roof (10-50%)** and **building final** inspections. Someone must be on site for the mid-roof inspection, but it is not required for someone to be on site for the building final.

- During the midroof/building final inspection, the inspector will sign off on the inspection card when the inspection has been approved so it must be made accessible for them on site.
- You will receive an inspection worksheet via email letting you know if you passed or failed your inspections.
- ❖ City of Louisville Policies:
  - One (1) square or less (100 sq ft.) of roof covering repair shall be considered maintenance and will not require a permit. Roof covering repairs over (1) square of roof covering will require a permit.
  - Effective January 1, 2018, any mid-roof inspection that is missed will require a consultation inspection on site for the inspector to direct the installer/contractor as to the location of the section of roofing which shall be removed to complete the mid-roof inspection. There will also be a \$100 re-inspection fee assessed. This fee is required to be paid prior to any inspections being scheduled.
  - Roofs starting without a permit will be assessed a double permit fee and a re-inspection fee.