

Questions & Answers

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What is your relationship with Luthy Metal Sales?

In the past, We were the installation crew for Luthy Metal Sales. With increased sales and a desire to focus more on manufacturing they proposed that we take over the installation completely. **Integral Builders** is now completely independent of them, yet we still work closely together, purchasing all our metal roofing products from them.

Do you use nails or screws to fasten the metal?

Woodgrip screws are necessary in residential application for wind uplift protection. If a screw was installed in 1/2" plywood roofing deck, it would require at least 4 nails to hold the same amount of uplift. Properly installed woodgrip screws provide leak free performance for many years, often longer than the useful life of the building. It is not possible for nails to provide similar leak protection. That is why we use screws instead of nails.

Where do you put the fasteners, on the rib or on the flat?

Fastening the steel panels on the flat beside the overlap rib is the location specified by the manufacturer. The rib is designed to raise and lower with expansion and contraction. A screw on the rib not only restricts the panels ability to expand and contract but also violates the manufacturer's recommended installation instructions, therefore we install the fasteners on the flat.

What seals the fastener holes?

We use a metal screw that has a rubber seal which seals against the metal. To prevent the rubber seal from deteriorating from the suns UV rays a metal washer is used to cover it.

How do you seal around pipes protruding through the roof?

We use a rubber roofing boot that has a twenty year warranty.



How do you seal around a chimney?

1. On a brick, block or other masonry chimney we actually cut into the masonry leaving a small crack where we can put our custom bent trim into the crack so it naturally seals tightly.
2. On Steel walled chimney pipes we use our roofing boot.



What happens at the edges of the roof?

1. On the rake side (the sides on an angle) we use a corner trim that overlaps the metal on the top and comes down about two inches covering some of the existing fascia.
2. At the eave edge we use a "C" trim which on the top side it goes under the metal roof, on the front it covers the existing drip edge, and on the bottom it returns in against the fascia. If there is existing gutter at the eave, the gutters do not need to be moved.



What will happen to the antennas that are on the roof?

We mark their exact location and then temporarily remove them, they are carefully reinstalled on top of the new metal roof.

Are there color choices?

Yes, there are 20 to choose from.

Is a steel roof more likely to get hit by lightning?

Absolutely not; however, in the unlikely event that it would hit, it would actually disperse the energy safely and resist sparking unlike asphalt shingles which contain flammable petroleum based material.

Is metal roofing noisy?

Many of us have been in a building with a metal roof during a rain storm and never noticed any unusual noise. That is because the noise is virtually the same as it would be for asphalt and fiberglass when installed over a roof deck. Metal roofing installed on purlins, with unobstructed space below will conduct the noise of rain or hail. However, in the event that the steel was installed firmly on a roof deck, the noise is not more significant than a typical shingle roof. And when metal is installed over asphalt shingles, many times it is even less, than prior to the metal installation.

What about stripping the roof with nailers?

This is highly recommended. Advantages of stripping the roof with nailers:

- They provide a straight, flat, smooth and secure place to fasten the new metal roofing.
- The nailers also protect the bottom side of the panel from any abrasive effect the shingles may have.
- In the event that the existing roof line is showing signs of "sagging" between the trusses or rafters, the nailers installed perpendicular to the trusses transfer the metal roof load directly to the roofs structural support members instead of attaching to the sagging sheathing. This helps to create a straighter roof line.
- Nailers give us an air space between the metal and the shingle. This air space is valuable in several ways. When the ridge is vented and the corrugations open at the eave edge, it allows for a gentle air flow between the metal roofing and the existing shingle roof. The cooler air enters at the eave edge and as it warms it naturally rises and exits through the ridge vent. Any moisture in the form of condensation can quickly be evaporated by the air flow. The air space also has insulation value filling the void between the cold winter precipitation on the steel roofing and the old shingles, also venting much of the heat in the summer that would otherwise penetrate the shingles.

Isn't it less than ideal to leave the shingles on my roof?

It is not always recommended to leave the shingles in place. However, there are some specific advantages to leaving the shingles in place, depending on the situation:

1. If the existing roofing is still shedding virtually 100% of the water, we recommend leaving it in place as a vapor barrier also reducing unnecessary waste. Even though the existing shingles are nearing their end of useful life and effectiveness, when protected from the elements of rain, wind and sun, they remain an excellent vapor barrier for a long time.
2. Leaving the roofing in place greatly reduces additional labor, cleanup and disposal costs.
3. It also basically eliminates the unlikely event of moisture damage during the installation process.

There are times when the shingles should be removed, such as:

1. If there is excessive weight on the roof structure because of too many layers of shingles.
2. If the substructure is failing, rotted or has obvious decay or damage.
3. If the building codes require them to be removed.



ROOFING & Post Frame Structures



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An Integral Part of Every Building



**We Can Now Install...
Seamless Rain Gutters for your Roof!**

**With our Seamless Gutter Machine
we can quote your seamless rain gutter project!**

ROOFING New Construction

Installing a roof is one of those important steps in your building project that does not pay to take shortcuts. We provide you with an excellent product and service that you can trust and will protect your building and it's contents for many years to come.



**Tax Credit
on our
Energy Star
Roofs**

The first step that we take when installing a new roof is to lay down Titanium™ Synthetic Roofing Underlayment on top of your existing roofing material of OSB, plywood, or solid boards. This underlayment is a three ply material that is designed to seal around each roofing screw and provides a weatherproof barrier between you and the elements.

Secondly we purchase a high grade of 29 gauge steel manufactured by Luthy Metal Sales that is designed with structural ribs which strengthens and provides support to the metal allowing it to stand up to harsh weather conditions. We secure the metal with screws that have a special rubber washer that seals each screw.

Take the pain out of getting permits and inspections by letting us handle it for you. We offer this service to give you one less thing to worry about.



REROOFING Existing Construction

If you are tired of emptying the buckets after a rain storm then our attractive roofing solution will get you weather tight in a hurry. We install new roofs right over your well worn one and in the process you gain some insulating value from the existing roofing material that used to cause you grief. You may choose, however to have us remove your existing shingles and repair any damage before installing the new roof.

We install 2x4's on top of your existing shingles and fasten them with ring shank nails into the members of your roof system. This provides you with an air



space between the existing shingles and your new roof which forms an insulating thermal and vapor barrier.

We then install your new roof using 29 gauge steel metal that is designed with structural ribs which strengthens and provides support to the metal allowing it to stand up to harsh weather conditions. We secure the metal with screws that have a special rubber washer that helps to seal each screw.

You can choose from 20 colors of metal to match the rest of your home. You can rest knowing that your metal roof is protected with a 40 year paint warranty.

We take care of all the needed permits and inspections which allows you to focus on the other important things in your life.



METAL ROOFING Benefits & Features

- **Versatile:** Our metal can be installed on roof sheathing or over existing shingles. This saves time and money by eliminating removal and disposal costs of old roofing materials. By using our Smart Panel steel roofing, labor costs are minimized when a continuous sheet of metal is used from the peak to the eave.
- **Tough:** Shingles are often replaced every 15-20 years. Our metal roofing panels will provide you with years of maintenance free service life way beyond any asphalt or fiberglass shingle. Hail and windstorms that destroy shingles struggle to damage our full, hard steel panels. This truly should be the last roof you will need to install.
- **Efficient:** Most conventional roofing materials absorb energy from the sun. Our Energy Star roofing panels reflect most of the sun's rays which keeps the attic space and living space cooler. The energy savings of our Energy Star roofing will save you money today and into the future.
- **Insurance Savings:** Many insurance companies will allow discounts for home owners who have steel roofing due to the superior protection against hail, wind and fire.
- **Home Appreciation:** Steel roofing is an important part of improving the value of your home. Studies have shown steel roofing increases the value of most homes.

Why should I use metal on my roof?

- Properly installed metal will survive wind that will devastate asphalt or fiberglass shingles.
- Metal with proper ductility will not show dents when hail decimates asphalt or fiberglass shingles.
- A properly installed and maintained metal roof will have a very long life and can last over 75 years.
- When familiar with the installation process, metal roofs are quick and easy to install.
- Metal roofs are light weight, less than 100 lbs. per square compared to 225 to 350 lbs. per square for shingles.
- Properly installed metal roofs shed snow and ice easily, limiting the snow load, and will not absorb or be damaged by water.
- Metal roofs are non-combustible.
- Energy Star metal roofing reflects the sun's heat instead of absorbing it like asphalt and fiberglass shingles, helping to keep your home cooler in the summer. All of our color choices are Energy Star rated.

POST FRAME Structures

Building a post-frame building is a valuable investment that needs to last a lifetime. The weather will soon test if a building is made to stand up to the stresses of wind, snow, and storm. We design our buildings to withstand the harsh weather conditions found here in Michigan. By combining quality building materials and **Integral** workmanship practices we feel confident in providing you with a structure that you can rely on.

Listed here are some of the distinct advantages of our buildings:

- Cast in Place 22" Diameter Concrete Footings
- Glu-laminated Columns
- Column Embedment approx. 4 ft. in ground
- Triple 2x6 Skirt Boards Treated for ground contact
- 2x4 Wall Girts 24" on center
- Double 2x10 or greater Truss Supports on both bearing walls
- Columns notched to receive trusses for greater stability
- Trusses 48" on center with snow load bracing as required
- 16" Eave and 12" Gable overhangs for pleasing esthetics and better weather protection
- Heavy Duty Steel Soffit for all overhangs
- 29 Gauge Roof and Wall Panels with your choice of colors
- Heavy Duty Doors from Jeld-wen
- Wayne Dalton Overhead Doors



Give us a call for a FREE Roofing Estimate

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www.integral.builders**