



Metal Roofing: Options are Out There In His Hands Contractors Chattanooga

Video link: <https://www.youtube.com/watch?v=mBwAY2tBdDw>

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Hey guys, I'm Daniel Wyatt with In His Hands contractors. I'm here to talk with you today a little bit about metal roofing, specifically the color options and then as far as the install goes, I want to run over with you how we ourselves here at In His Hands contractors, how we install these roofs and the proper procedure to go about that.

Back here behind me I have a wide variety of color options when it comes to metal roofing. Lots of times you will hear them the misconception that, I don't want to go with metal because I'm trying to match out a siding or I want a specific color, but as you can see here behind me and holding in my hand, these color chip samples, we have a wide variety of colors and metal can come in just about any color that you want. You can literally pick any color that you want in the in the metal and more than likely if you are looking for a certain color we provide that color for you.

I want to talk right now about the process before we actually do the install for the metal roof. I want to talk about the process of how to get there. This is specifically the way that we do it. Of course, we believe that the way that we do it obviously is the best way. I would highly recommend that anytime you have a roof install you should look for a couple key components that I'm going to go over. Starting off, the first way that we would talk about, in this application we are going to talk about a re-roof, not a new construction home. This is one that has had a roof

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previously installed. Let's say it previously had an asphalt shingle roof that has been up there for fifteen or twenty years and it's in need of replacement.

The first step that we are going to go with is we are going to remove the entire roofing that is up there right now, the shingle. Whenever we remove that of course, we use dump trailers instead of dumpsters. One of the benefits of that is of course, you've got people that have nice driveways, you've got your concrete; you don't want scrape marks over top. So that gives us a nice clean way to back a trailer into there and the tires don't make marks and skin your pavement or your driveway up. Once we get that dump trailer in there, we meet actually on site there. We start the process of removing the old materials, the shingle, the metal, whatever the case is there. We will strip the old material all the way down to the decking. Once the decking is fully exposed we will go through there, we will pull all of the old fasteners that was used to install your old product. Instead of driving those up lots of times you will see people up there, they will drive the fasteners up because it's quicker than pulling them. Of course, when you pull them you've got nails that are running down the roof and down to the ground. So lots of people will just go round through there and they will draw those up.

The problem with that is of course, as you drive those fasteners up, when the new roof is installed you have those old fasteners that start to back out over time punching holes or putting dents in your new roof that you've just installed. So I would highly recommend that you watch for that process right there that those old fasteners are removed and not just drove back into the existing decking. Now that we have got the roof down to roll decking of course, at that point we have got the roof decking fully exposed to where we can see any problem areas around chimneys, around dormers, around any penetrations whatsoever. If a roof has been up there for

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20 years more than likely you are going to have some water damage or some rot going on. At that point we will check the roof decking for the condition of it. We can expose any rot that you have going on, any water damage you have going on or any broken decking which is what you will find a lot of times on older houses where the decking has actually just been broke through from the previous install of the shingle roof.

We will replace any roof and any sheathing at that point and we will completely replace any rotten decking, any broken decking. That way we have a nice clean solid substrate to put our new roofing materials back on top of. Once we have a nice clean slate to work on top of with our new decking freshly replaced and we have a solid substrate there, the first thing that we are going to do is we are going to come in there and we are going to lay out what would be considered a vapor barrier. Traditionally, they used a tar paper for a vapor barrier, but that of course, raises a few concerns on that. Whenever you tear an old roofing off you will always see this where the paper filled is cracked, it's split, it's deteriorated, it's into shambles up there. Of course, if it's in that condition when you are taking the roof off it has failed to do its job which essentially is to be a vapor or water barrier for whenever your roofing product sweats or condensates from the backside.

To void against that, what we have, this is something that's a little bit newer to the market, been around for 10 or 15 years now and lots of up-and-coming roofing companies, lots of your bigger roofing companies including ourselves, we like to use this. This is what they consider a synthetic fill. The synthetic fill, it weighs ten times lighter than a traditional paper fill. It does not break down. It does not deteriorate over time. It's a three-ply roofing product, underlayment product. It has got a lot more strength. As you can see here you cannot tear this stuff like you can traditional

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paper fill. It really withstands whenever you are walking over top of it. It helps withstand the foot traffic that's on top of it, just has a lot of really good benefits to it that traditional paper fill does not. I would highly recommend that when you go to have your roof installed this is a product that you would have in place of your traditional paper fill.

The next product that I want to talk to you all about is a product that we specifically apply at all of your stress points of your roof. That's going to be your transitions where you have a lower pitch of the roof come to a higher pitch of the roof. This is also going to be in the valleys whether it be a dormer or whether it be a gable roof, another section of the roof coming out from the main section. Anywhere where you have a valley that's created, this is what I would highly recommend that you make sure is installed on your roof. This is something we install on every single metal roof that we install. This is something that we make sure is put down previously to install in the metal itself. What I have here in my hand, this is called ice and water shield and specifically, this is high temperature ice and water shield. There are a couple different types of ice and water shield out there on the market and you have one specific type that you want to stay away from.

They have a traditional ice and water shield that has actually got an asphalt base that looks a whole lot like a shingle in texture. It has actually got the granules on it and you want to stay away from putting that in your valleys whenever it comes to a metal roof. The main reason in that being is this right here. Your new roofing material is going to heat up even though we have reflective paint, we have a Kynar 500 or a Kynar 5000 ingredient in the paint which lets the sun be reflective instead of absorbing the heat. It is still going to take on heat when it's 96 degrees

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outside. As that heat is transferred into the backside of your metal it will heat that traditional ice and water shield up causing it to become liquid form and run out on the face of your new metal.

One thing that you would look for whenever it comes to this ice and water shield is make sure that you use a high-temperature ice and water shield on any metal that you do whatsoever. This can withstand the heat. This has a paper face overtop of it, on like the asphalt face. So this does not heat. When this does it heats up this does not melt over time so it's going to withhold, withstand all the heating elements of it and this will stay intact, stay in place without doing the running out and melting on the material. So I would definitely look for that when you are going to have a roof installed. We always install this on the valleys and all stress points of the roof anytime that we go to do a metal roof.

Up to this point we have went over the removal and the preparation, the removal of the old roof and preparation of the new roof including replacing any damaged or bad decking, rotted decking, installing the synthetic fill and installing the high-temperature ice and water shield in all valleys and transitions. What I want to do now is we have... When it comes to installing a metal roof we have two different styles of roofing. We have Tuff Rib and we have Standing Seam. The one that we are going to look at first is what we consider Tuff Rib and it is a face screwed or exposed fastener metal system. This system has a lot of benefits to it. One of the biggest benefits that this system has to it is it is not very time consuming to install. It's not very detailed as far as in comparison to the Standing Seam and then also of course, along with that comes the fact that it is economical from a price point of view.

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I want to go over and this Tuff Rib metal roof install and I want to point out some things to you all that you should be looking for whenever it comes to the installation of your new metal roof. One of the first things that you are going to start with is you are going to start by adding a drip edge right here. That drip edge will run all around the eaves at the gutter line that should sit up on the face of the roof itself underneath your metal roofing materials and it will come down on the face of your fascia board approximately an inch and a half in most cases. That will run all the way around the eaves at the gutter line and then once it comes over to a rake or a gable it will stop at that point and you will have another trim that will take over in that place.

The second material that you install is your valley material. Your valley material is a 29 gauge, in this case a Tuff Rib, so a 29 gauge Tuff Rib. One thing you should look for, the valleys should be closed up so that it's not up into eyesight and it's also not open for when water runs down the valley it cannot curl and run back up underneath. Also it's closed up so that intruders cannot get in whether it be birds bees etc. So you want a nice neat closed look to it when it comes to your valley. That leads me to the install of the actual metal panels itself. When you go to install the metal panel itself you should look for on the overhang an inch and a half minimal overhang and depending on the pitch of your roof, up to a two inch overhang.

You want to make sure that it is not flush with the drip edge or flush with the fascia board itself. A metal roofing material needs to have an inch and a half overhang at minimal so that it's getting the water out and away from the structure of your house into your gutter. As far as the install goes on the field panels itself, what you want to look for when it comes to fasteners is on each side of the main rib, on each one of these panels you should see a screw installed. Those screws

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are installed on each side of the main rib and those are put on center at every three to four foot depending on the length of roof that you are installing.

Now we have made it to the point where we have installed our field panels, we have installed our drip edge, we have installed our valley and we have installed our field panels. Now it's ready for the stage of what we call a trim out. The first thing that you want to do whenever it comes to trim out... The next step in this process is going to be installed the rake trim. One thing you want to look out for in this process is make sure that your roofing contractor is not just bringing the metal and hanging it over at your gable ends an inch and a half and leaving a raw exposed edge where blowing rain or water can work its way back up underneath there and leave an unsightly unpainted bottom edge where that overhang is.

Rake trim, when installed the correct way, serves two different purposes. The first purpose is aesthetics. When it comes to the looks of your roof of course, having all the trim components installed is going to look a lot better and a lot more finished and complete than leaving trims off. The second thing that rake trim helps with when it comes to functionality is it actually helps when you install the rake trim, it helps wind not to be able to work its way up underneath the panels over at your gables unlike it would if you were just to have an inch and a half overhang at your gable ends with a roll edge exposed to it. Make sure that when you are having your metal roof installed that this rake trim is included. It is not just an accessory; it is a necessity.

Moving on to the next trim, the next trim material that I want to speak to you about is the ridge cap. Before installing the ridge cap, you should have some sort of proper ventilation. In a shingle roof, this is called ridge vent. In a metal roofing application, we call this flexovent. If you have

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paper-faced or blown insulation, you will need proper ventilation. If you have spray foam insulation, no ventilation is required at this point. Before you install your ridge cap you will need to make sure that the ridge is cut out all along the ridge an inch to an inch and a half on each side of the ridge to allow for proper ventilation and to let the heat dissipate from the attic. Before putting the ridge cap on this would leave exposed edges, this would leave a gap underneath the ridge cap where birds and bees and other creatures could get in. So you want to make sure that this is closed up.

At this point you would install your flexovent. This flexovent is solid, continuous two inch strip and it comes in a ten foot roll. Once installed, this is actually perforated to allow the heat to dissipate, but prevent things from getting inside your attic. After this is installed, now it's time to install your ridge vent. When you install your ridge vent you will want to make sure that you have a fastener on every rib or at least on every other rib as to make sure that your ridge cap does not come loose and blow off. At the very ends when you come to a gable end on your ridge cap you will want to make sure that it's not just cut off and left to roll, but you will want to make sure that the ridge cap is actually turned down again, to create a nice tight water seal and one where birds and bees cannot get into your attic. This concludes the installation of a Tuff Rib metal roof.

We are going to talk about the second type of metal roofing. This is considered Standing Seam. I want to start with the Standing Seam the same way we did with the Tuff Rib. You should make sure that you have a drip edge installed first at the eave line or at the gutter line all the way around the perimeter. With this drip edge, you will want to make sure that it has an inch and a half lip that actually sticks out into the gutter and does not just come flush with the fascia board. I'll explain to you a minute why you want that inch and a half lip sticking out past the fascia

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board. Once you have your drip edge installed all the way around the perimeter of the eave or the gutter line it's now time to install your valley. The same way with Tuff Rib, you will want to make sure that when your valley is installed you will want to make sure that you have your ends nice and closed up so again, to prevent anything from getting up in there and to prevent rain from coming down and water rolling up underneath the valley metal itself.

Once the valley metal is installed, it's now time to start installing panels. The first step in installing this panel is the panel will need to be cut and prepped to get ready to install. This panel should be cut with the one inch flange left over at the bottom of the panel. At that time, that one inch flange that is left over will actually be helmed under so that this panel is actually hooking on to that one inch and a half lip that we left on the drip edge. Once we hook the panel on, instead of face screwing this panel we are actually going to install this with a Standing Seam clip. This clip is installed on the underside of the rib on Standing Seam. This clip should be run every three to four foot depending on the roof square footage or area. Once you install the clips going on the panel, the first panel is now properly installed and the second panel will come over and snap right on to the first panel. You've now covered up all of your fasteners and you have a nice clean sleek look with no exposed fasteners.

Not only should the panels be helmed underneath at the eave line onto your drip edge, but you should actually have them helmed at the valleys as well so as to prevent a raw edge and that edge could start buckling over time as it expands and contracts with heat and cold weather. Now that we have our drip edge with our inch and a half flange sticking over into the gutter line we have that installed. We now have our valley metal installed and we have our W-valley closed up. We have our rake cleat installed at the valley. We have our panels installed, helmed under at the

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gutter line and helmed under one inch on the valley. That takes us to our next step which is the trim out stage.

The first step in this trim out stage would be installing the rake trim. Before installing the rake trim, because we cannot see any exposed fasteners running up the edge like we do on Tuff Rib, we want to first install a rake cleat. That rake cleat is underneath of this rake trim. It looks just like the rake trim and it does actually face screwed onto the fascia board. Then we come back with our rake trim that actually just slides right over top of the rake cleat. Keep in mind you want to close up all of your ends so that you are not seeing up in there. Once that is clipped on to there, it's clipped on to the cleat on the outside and it comes over and clips to the inside you will have minimal exposed pop rivets that will be put on top of the rake trim to hold it in place. That brings us up to the install of our ridge cap.

Before installing ridge cap again, we want to make sure that this is a hidden fastener system all the way around. We will first install our Z-bar. Before we screw this Z-bar on we will make sure that we install our butyl tape on the bottom says to create a nice, tight watertight seal. Once the Z-bar is installed, it is now time to install our ridge cap. Just simply clip the ridge cap on, pull it over to the other side and snap it on to the other side of the ridge. Before joining your second piece, make sure to have at least a three inch water lap in between the two pieces of ridge cap. When you get to the very end of your ridge cap and you come to a gable end the same way as Tuff Rib, you want to make sure that you have your ridge cap turn down as to create a nice, tight seal with no gaps.

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This concludes the install of our Standing Seam metal. As always, we appreciate you watching. Be sure to check back for new content coming your way. Please make sure that you hit the notification bell. Please like and subscribe. We look forward to seeing you again.

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