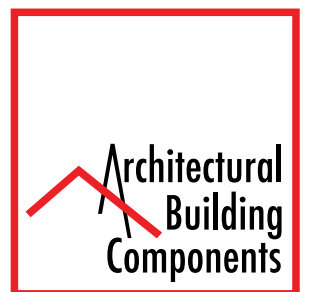




RETROFIT UTILIZING THE 238T PANEL SYSTEM

Whatever your existing roof conditions may be, Architectural Building Components has the retrofit solution for you!



www.archmetalroof.com

METAL OVER METAL RETROFIT

Retrofitting an existing metal roof can be done quickly, at a lower expense than remove & replace, and with very little disturbance to the occupants. Retrofitting also affords the opportunity to add insulation or a radiant heat reducing air space between the old and new roof systems for lower energy usage and costs. And, best of all, retrofitting generates little, if any, landfill debris!

ABC's Retrofit Solutions: the Retro-Z, the Clip & Purlin and the 238T Retrofit Clip Solutions all provide a rigid attachment directly into the original structure. These solutions create a "sub-frame" used to install new panels over an existing metal roof. (See back cover for more detail.)

ABC's 238T Symmetrical Panel System is an excellent option for retrofitting and recovering on slopes down to 1/4:12. The 238T's symmetrical shape not only provides a clean and efficient installation, but also allows for easy individual panel removal or replacement.

In addition to its superior installation benefits, the 238T's unique symmetrical seam design leads the industry in weather-tightness and wind uplift performance. When the 238T is installed using Multi-Span Clips, the wind uplift capability dramatically increases (as compared to a traditional 2" DL Panel). In most instances, the 238T roof can be upgraded to meet IBC Requirements for Existing Structures — without having to add expensive framing.

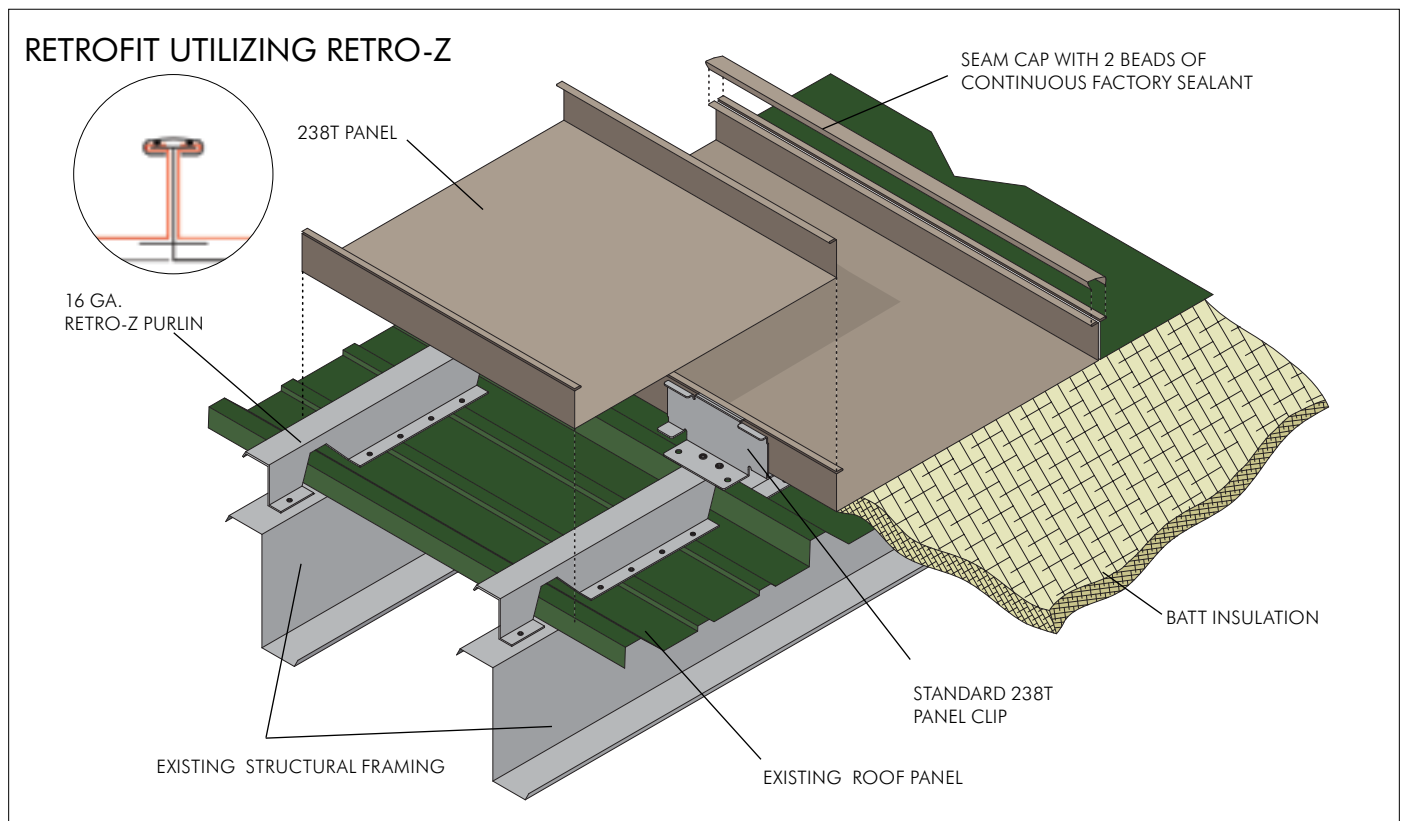
ABC has re-engineered the curb detail to eliminate end laps, as well as a reliance on exposed fasteners and sealant. The unique curb design, known as ABC's Transverse Panel System, improves the roof's water-tightness ensuring a lower total cost of ownership and a longer lasting roof.



End laps, exposed fasteners, & penetrations caused this metal roof to fail.



A completed retrofit utilizing Transverse Panel Curb detail.



METAL OVER MODIFIED/ SINGLE-PLY RECOVER

The life expectancy of a properly drained standing seam metal roof with no exposed fasteners is 30 to 50 years. This is significantly longer than the modified/ single-ply systems that are typically used on low slope commercial applications. Metal, rarely used on a low slope, can significantly out perform these other systems if proper care is taken in choosing the right standing seam metal roof system.

The basic requirements to recover a modified/ single-ply roof using the 238T system are: replacement of any wet insulation and a minimum 1/4" sloped deck below the existing roof that will hold fasteners. By using our Transverse Panel System on the curb detail, in many cases the existing curbs do not have to be modified. As an added benefit, the 238T system design allows for a 3/8" air space between the new and old roof. This air space can significantly reduce the radiant heat transfer into the building.

EXTERNALLY DRAINED



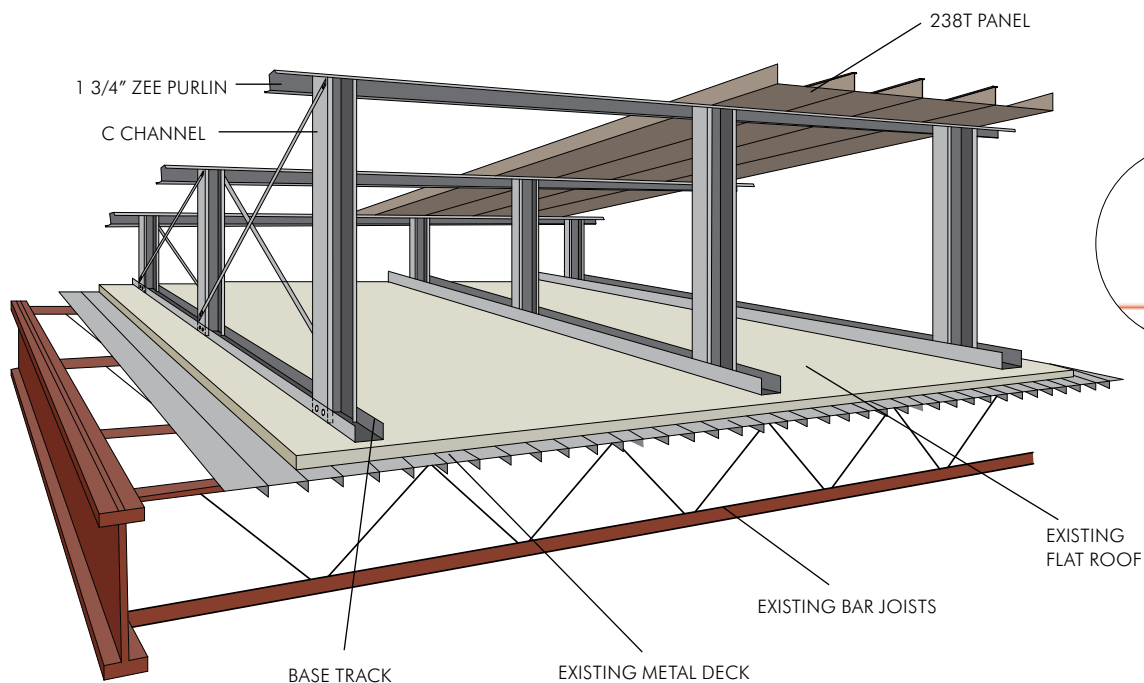
Recovering an existing modified/single-ply roof that drains into a gutter using the 238T System can provide an economical, long lasting alternative to traditional re-roofing options. In most cases, the existing penetration curbs can be utilized without modification using our Transverse Panel System. Various panel widths and Transverse Panels are applied in a manner that prevents water from ever reaching the back of the curb. The end result is improved weather-tightness and lengthened life expectancy for your roof system.

INTERNALLY DRAINED (238T-ID)



This is an area where no one uses metal. Our question is why not a metal hybrid roof? Leave the roof in place, install 238T-ID directly to the existing deck using patented 6" offset clip and support system with R-19 6" batt insulation between the two roofs. The water runs off the metal roof into a high end single ply trough that feeds scuppers or internal drains. This results in a roof that is almost 100% metal – creating a 40 year roof solution for 95% of the roof, leaving only a 5% maintenance area.

RETROFIT UTILIZING TRACK & C CHANNEL

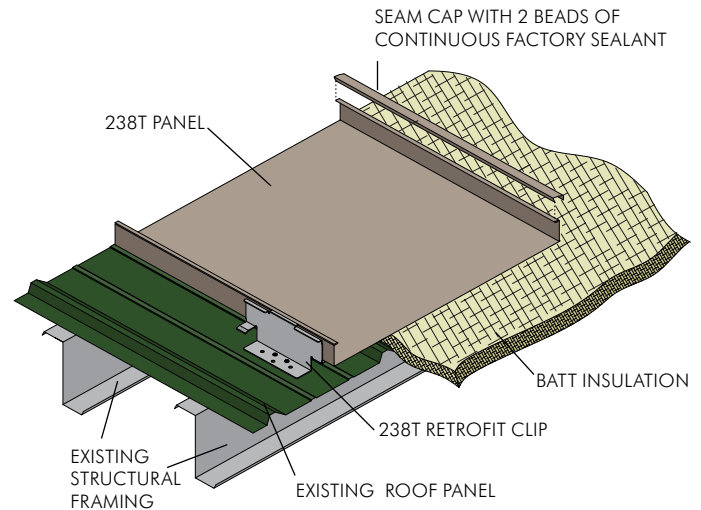


RETROFIT FRAMING OPTIONS:

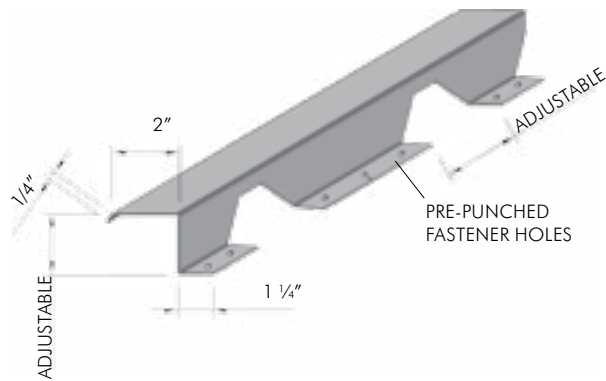
238T RETROFIT CLIP:

Economical Metal Retrofit Alternative to Single-Ply

ABC's 238T Retrofit Clip was developed to provide a longer lasting alternative to Single-Ply over metal recovers. The unique 238T Retrofit Clip sits between the ribs of the existing metal roof panel and is attached to the purlin below. The 238T panel is raised above the ribs of the existing roof, providing ample room for insulation between the 2 roofs. This retrofit solution eliminates the need for sub-purlins or hat sections which results in an enormous reduction in material and labor costs. The 238T Retrofit Clip offers the building owner a chance to use metal for their recover at a price point that is comparable to Single-Ply with two to three times the life span.

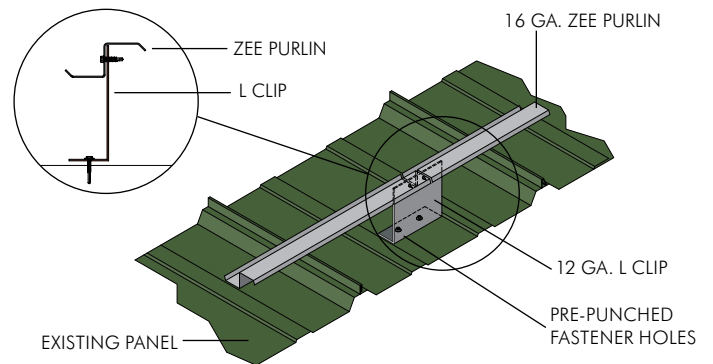


RETRO-Z



A Retro-Z is a 16 gauge zee purlin that is notched out to fit over the ribs of an existing metal roof panel. The Retro-Z is then attached through the old roof into the structure below, providing a surface to install the new metal roof that adds strength to the existing purlin. (Note: All above dimensions adjustable to project requirements)

CLIP & PURLIN: ECONOMICAL ALTERNATIVE



ABC's Clip and Purlin System incorporates a variable height 12 gauge L clip that is attached through the existing roof into the structure. The clip is then connected to a 1 3/4" tall, 16 gauge zee purlin, providing the new roof surface. The Clip & Purlin System is an economical retrofit alternative that allows up to a 6" space between the old and new roof to add insulation. (Note: 12 ga. L Clip variable height 3" - 6")

TRACK & C CHANNEL: LIGHT-GAUGE FRAMING

ABC's Track & C Retrofit System is a light-gauge framing system designed to create a sloped roof plane and adapt the existing structure for a new metal roofing system. The Track & C adds a continuous track base which allows it to be installed over the existing roof deck and structural supports. The C Channel is fitted in various heights up to 6' to then create a slope, allowing for a new metal roof system to easily be installed over this 5' x 5' grid. Unlike other light-gauge framing systems, ABC's Track & C Channel is specifically sized for retrofitting, lightening the frame even further and thus comparably reducing the cost.

