MASTERLOK-90

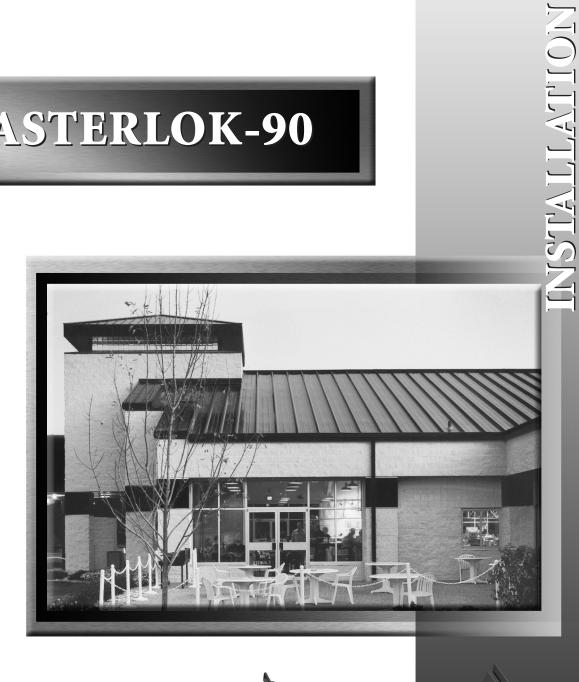




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GENERAL NOTES

The details shown on the following pages are suggestions or guidelines for installing the MasterLok-90 (ML90) roof panel system. The installation details shown here are proven methods of construction, but they are not intended to cover all building requirements, designs or codes. The details may require changes or revisions due to individual project conditions.

Installation procedures shall be in accordance with the manufacturer's printed instructions, details or approved shop drawings. Installers should thoroughly familiarized themselves with all instructions prior to beginning the installation process.

The designer/installer is responsible to ensure the following:

That the details here meet the particular building requirements.

Awareness of and allowance for expansion/contraction of the roof panels.

That adequate water tightness is maintained.

That a proper uniform substructure is used to avoid panel distortion and that the substructure meets necessary code requirements.

That all supporting members have been examined and are straight, level and plumb.

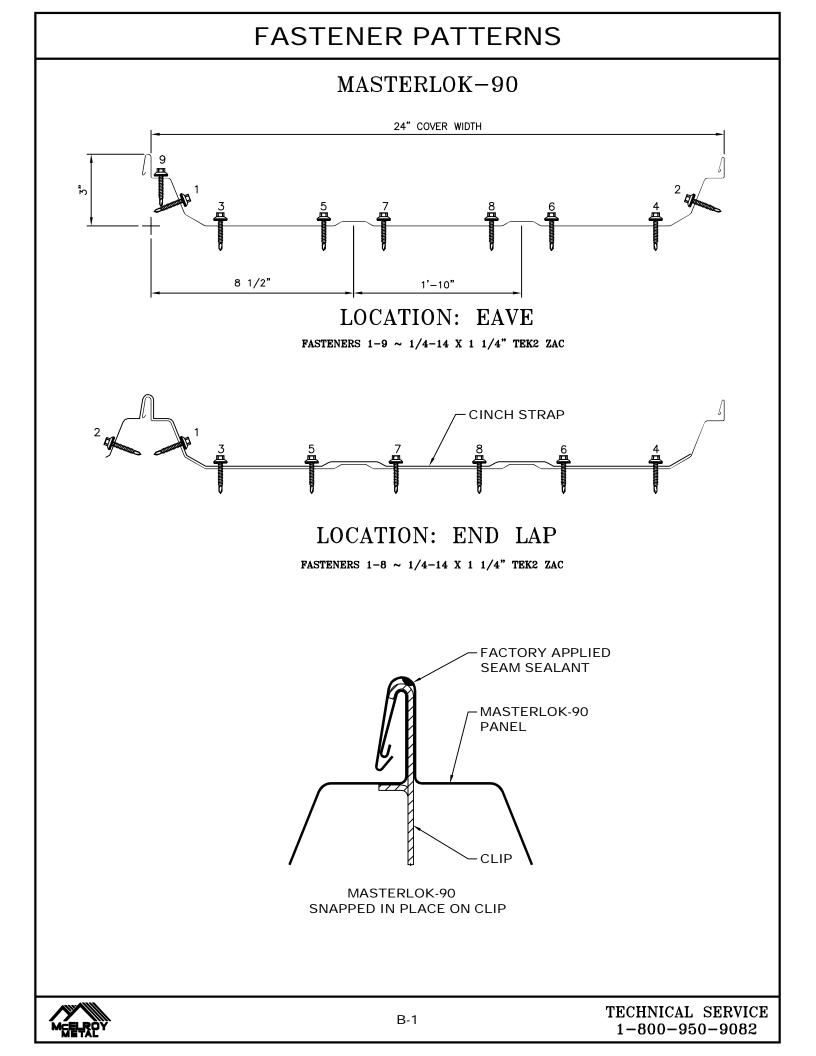
McElroy Metal can provide all flashings and accessories shown in the installation drawings unless noted otherwise. Panels, flashing and trim shall be installed true and in proper alignment with any exposed fasteners equally spaced for the best appearance. Sealant shall be field applied on a clean, dry surface.

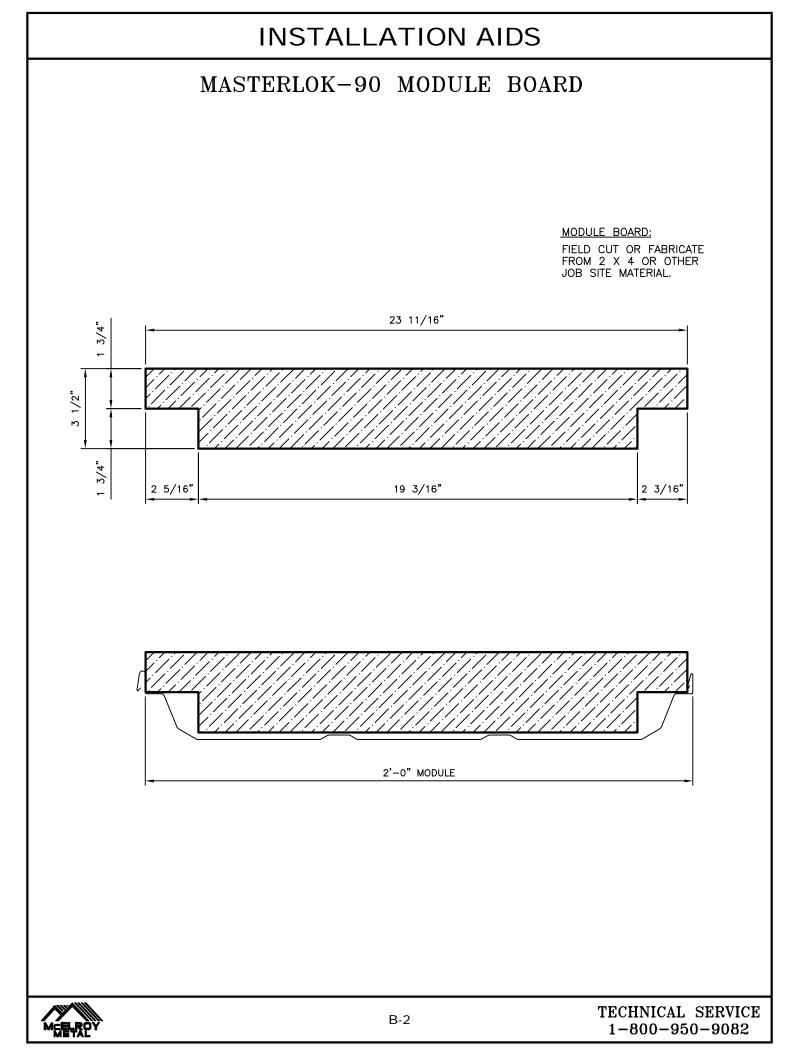
Some field cutting and fitting of panels and flashings is to be expected and to be considered a part of normal installation work. Workmanship shall be of the best industry standards and with installation performed by experienced metal craftsmen.

Oil canning of metal panels is inherent in the product and is not a cause for rejection. Striated panels are recommended as they reduce the appearance of oil canning.

Contents of this manual are subject to change without notice. To confirm this book is the most current copy, please visit McElroy Metal's website at www.mcelroymetal.com.







PANEL CLIPS and THERMAL SPACER CHART

The following guidelines should be used when selecting the appropriate roof clips and thermal spacers for the MasterLok-90 roof system. The maximum insulation listed is based on UL-90 ratings for the MasterLok-90 Panels.

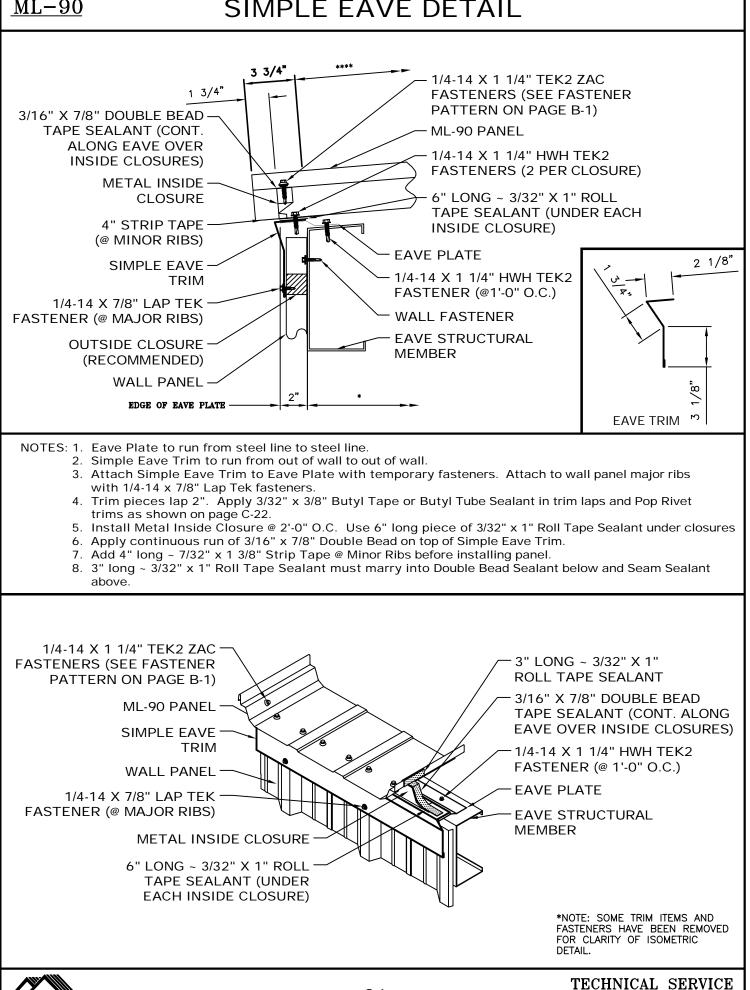
INSULATION / THERMAL SPACER SELECTION GUIDE					
INSULATION THICKNESS	LOW CLIP SYSTEM	HIGH CLIP SYSTEM	TALL CLIP SYSTEM		
NO INSULATION	3/8" THERMAL SPACER	NOT RECOMMENDED	NOT RECOMMENDED		
3" INSULATION	NO THERMAL SPACER	1" THERMAL SPACER	NOT RECOMMENDED		
4" INSULATION	NO THERMAL SPACER	5/8" THERMAL SPACER	NOT RECOMMENDED		
6" INSULATION	NOT RECOMMENDED	3/8" THERMAL SPACER	1" THERMAL SPACER		
8" INSULATION	NOT RECOMMENDED	NOT RECOMMENDED	5/8" THERMAL SPACER		
10" INSULATION	NOT RECOMMENDED	NOT RECOMMENDED	3/8" THERMAL SPACER		
12" INSULATION	NOT RECOMMENDED	NOT RECOMMENDED	NO THERMAL SPACER		

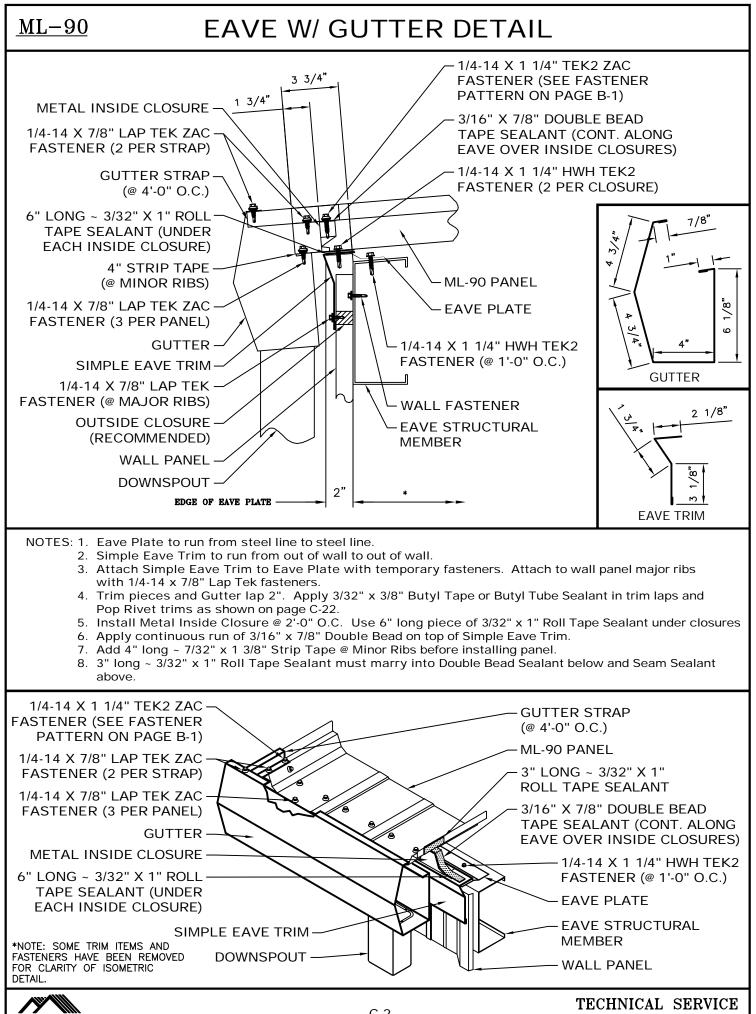
THERMAL SPACER DISCLAIMER:

The above chart is only a guide. There are many blanket insulation manufactures and as such the densities of the insulation vary from manufacture to manufacture. This needs to be considered when selecting the appropriate clip system and thermal spacers. The different densities may affect the appearance of the metal roof system. In the end it is the installer's responsibility to make the correct selection. McElroy Metal does not require the use of thermal spacers with its metal roof systems however, the building owner or architect may. In certain climates the lack of a thermal spacer may cause a thermal break to occur which could lead to condensation. If a thermal spacer is not used on an un-insulated building a rumbling to a "thunder" type noise may be observed to be more pronounced. If a thermal spacer is not used, panel modularity may be more difficult to hold. Using too much or too dense insulation may result in purlin read through, may be more difficult to install, and/or may cause difficulty in holding panel modularity.

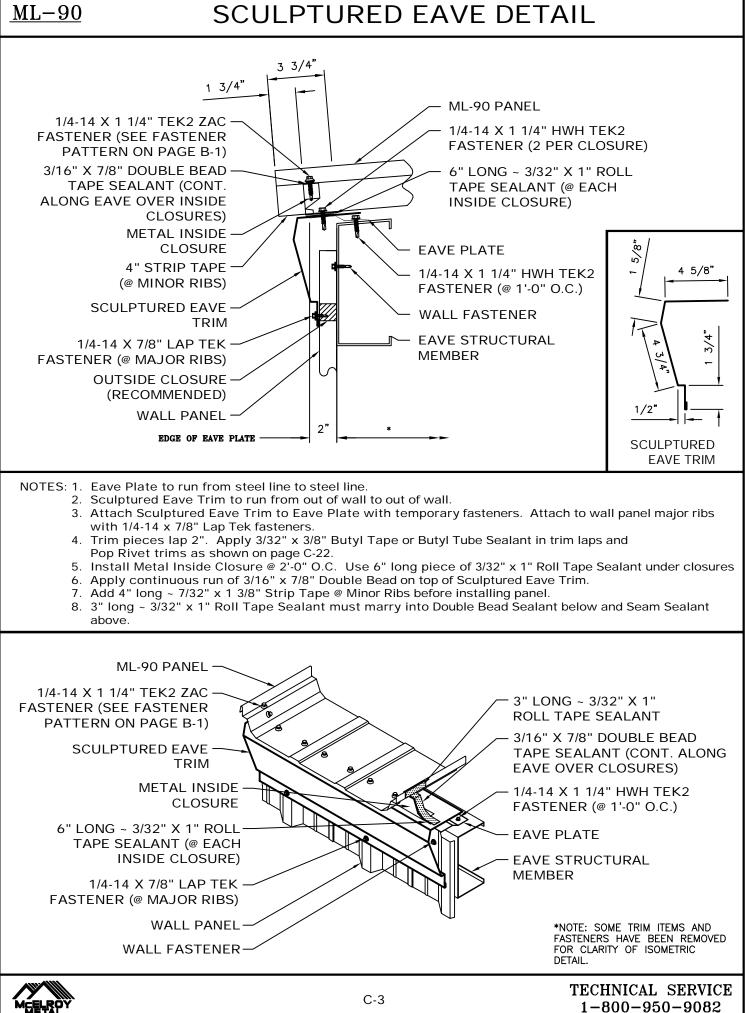


SIMPLE EAVE DETAIL

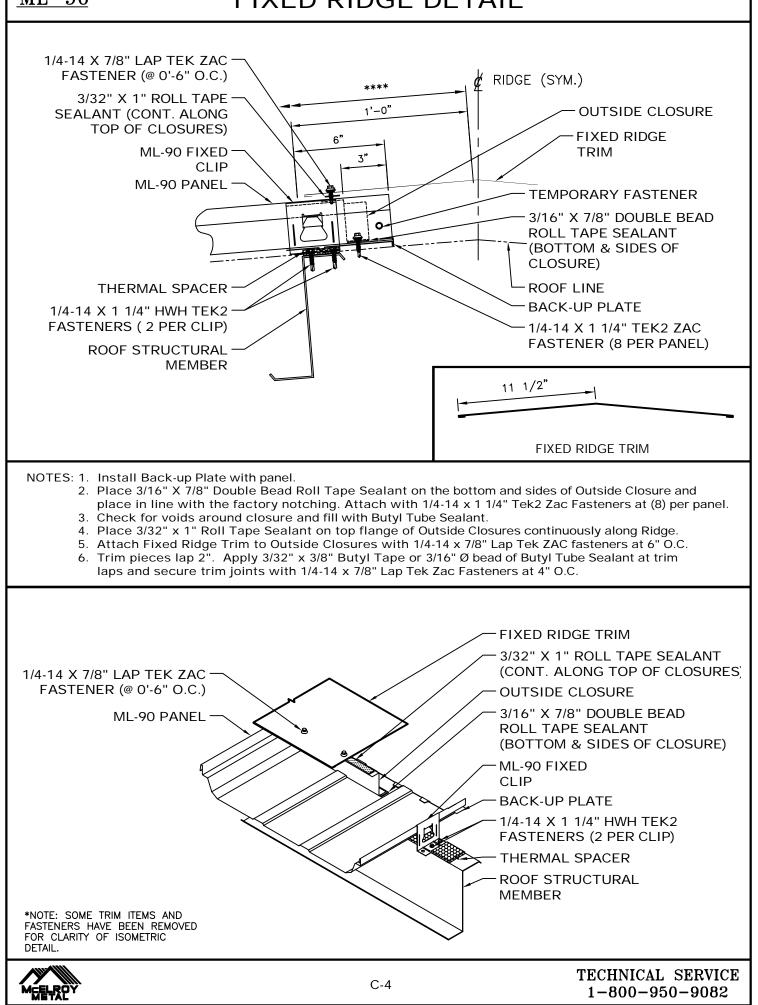




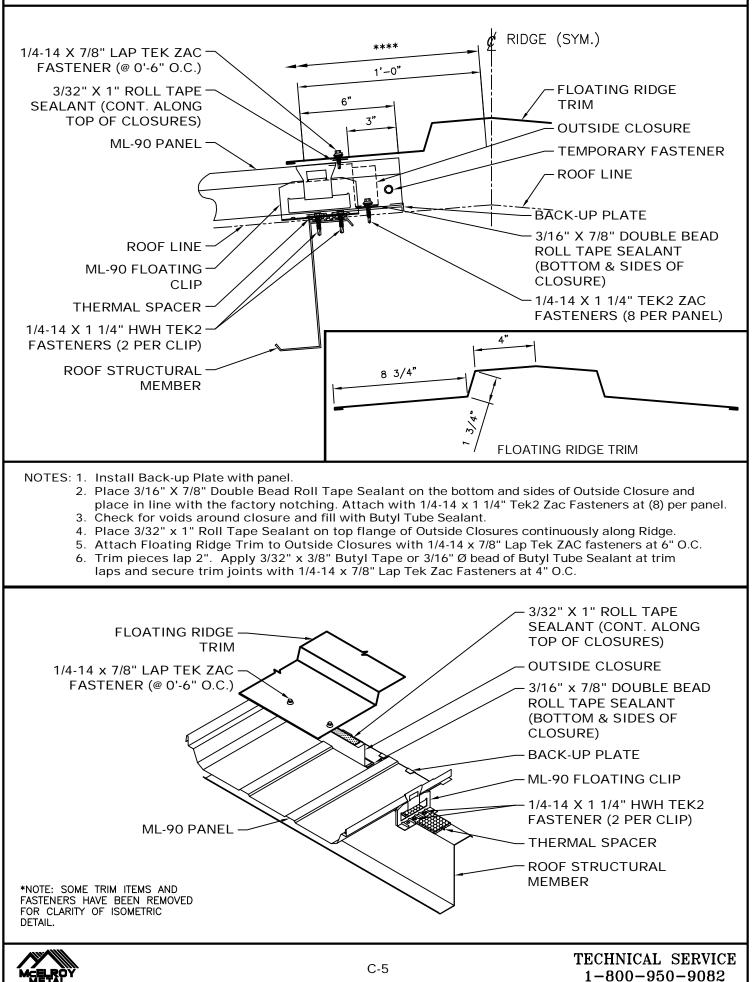
¹⁻⁸⁰⁰⁻⁹⁵⁰⁻⁹⁰⁸²



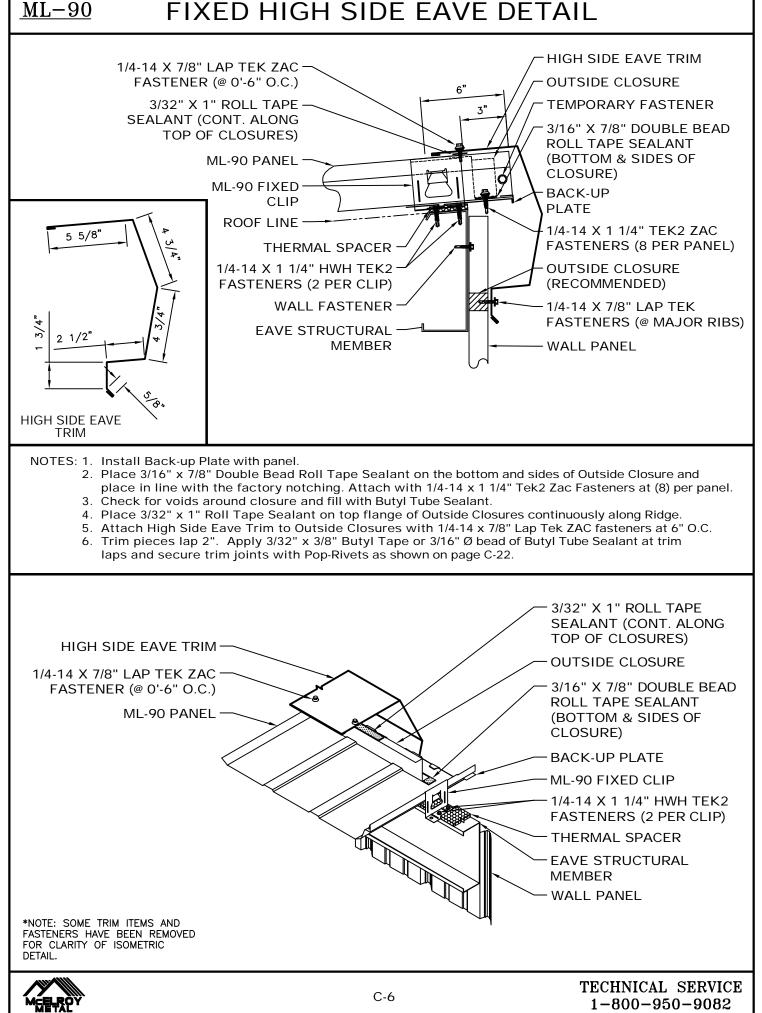
FIXED RIDGE DETAIL

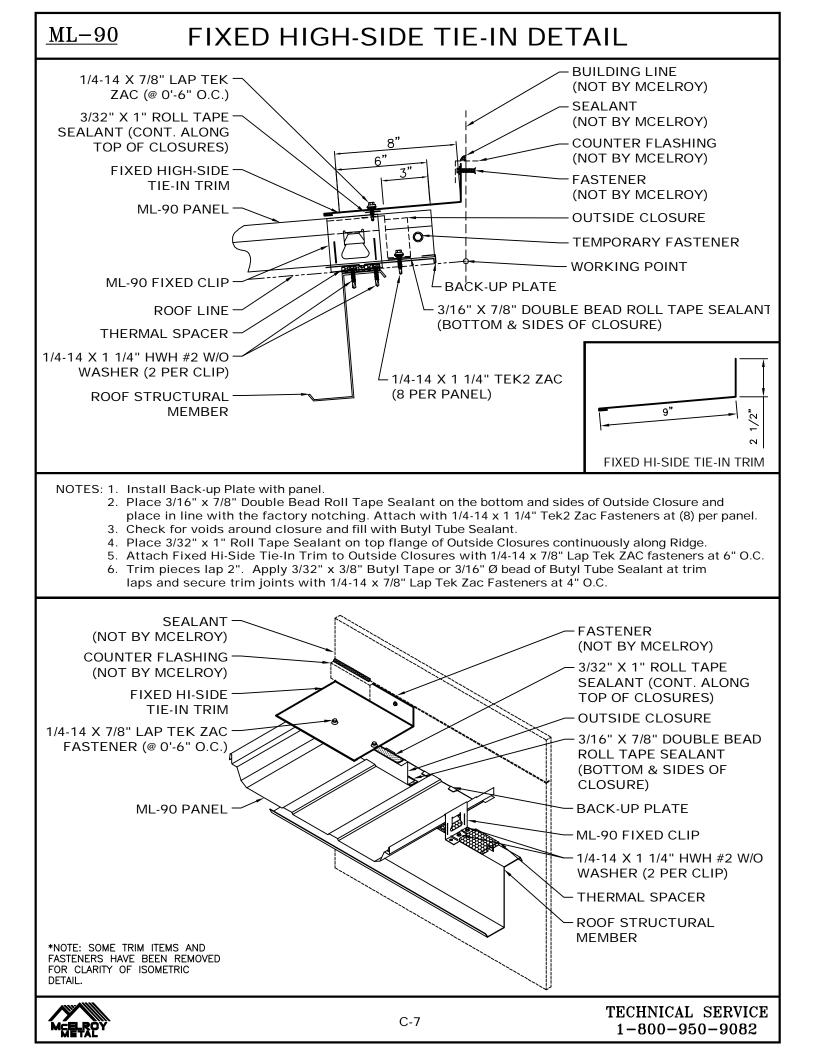


FLOATING RIDGE DETAIL

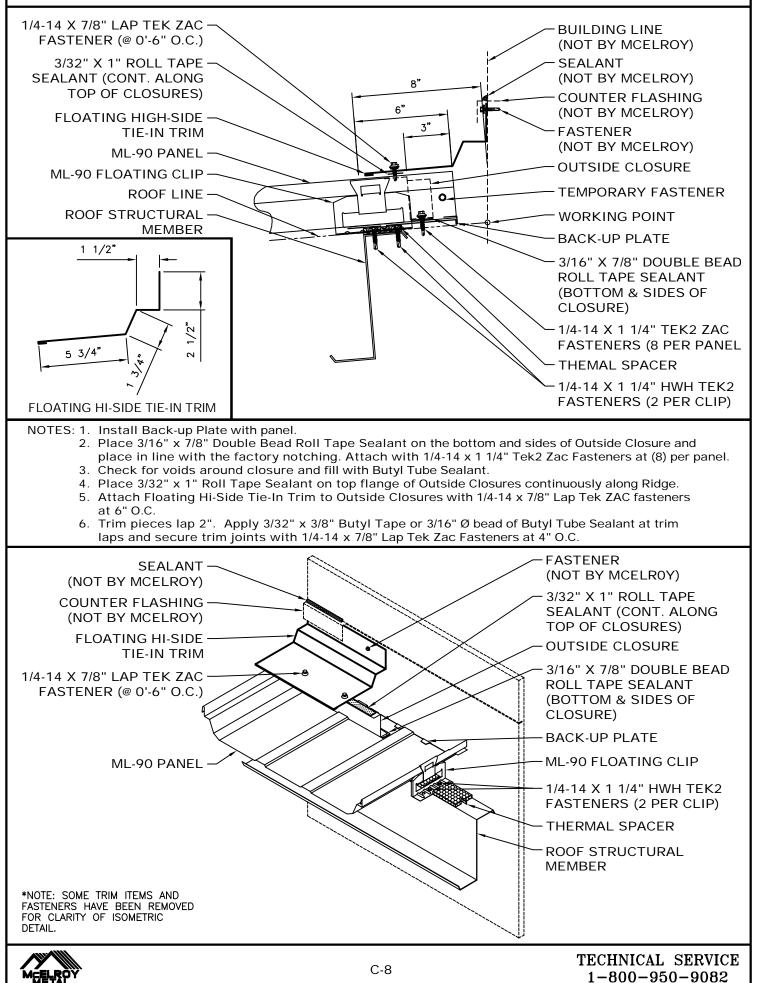


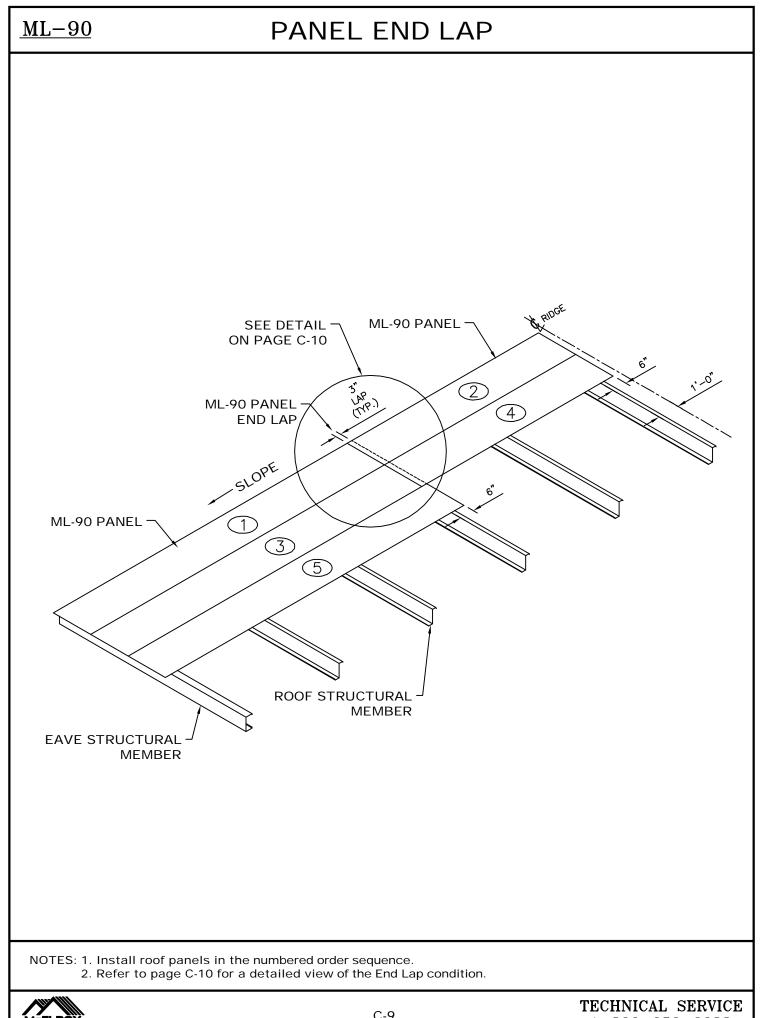
FIXED HIGH SIDE EAVE DETAIL

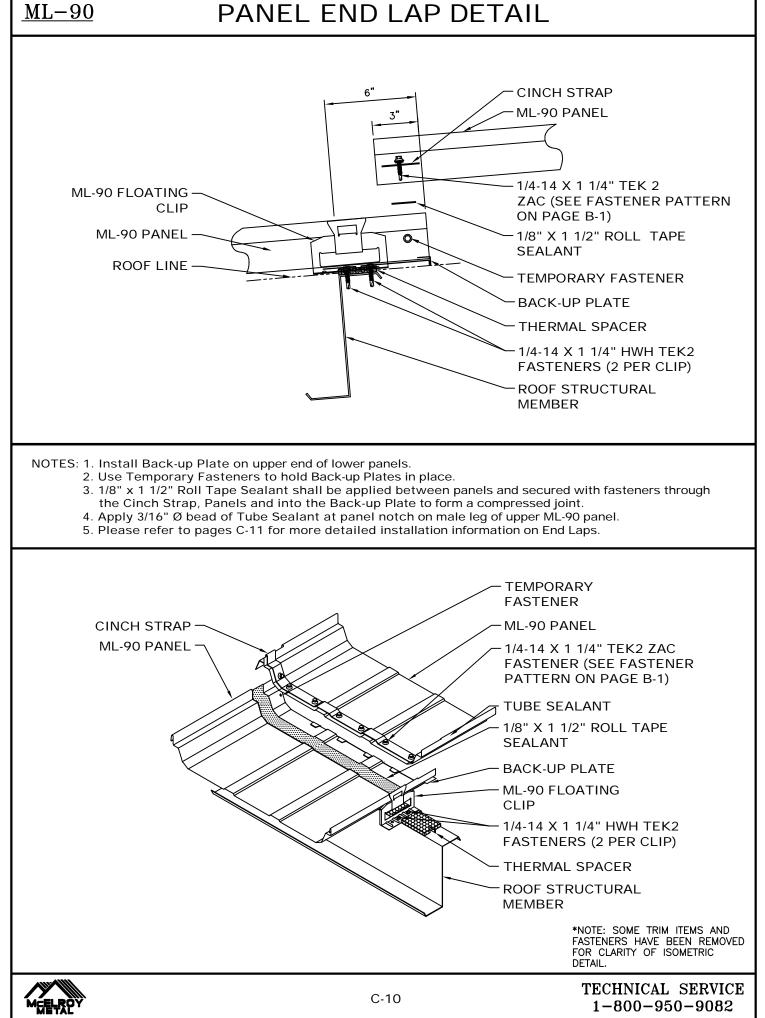


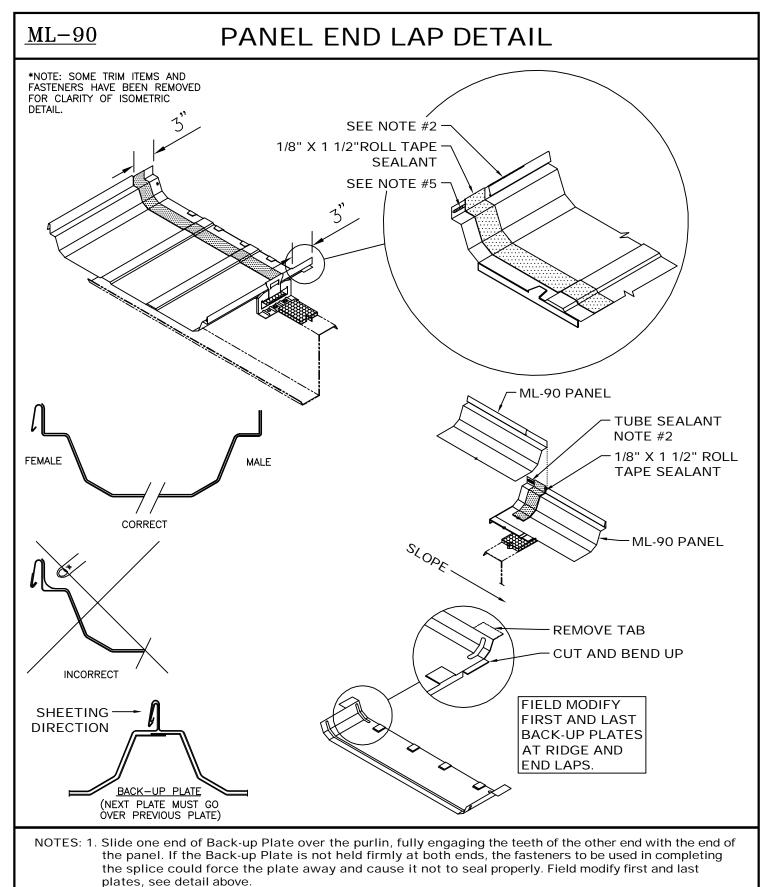


ML-90 FLOATING HIGH-SIDE TIE-IN DETAIL





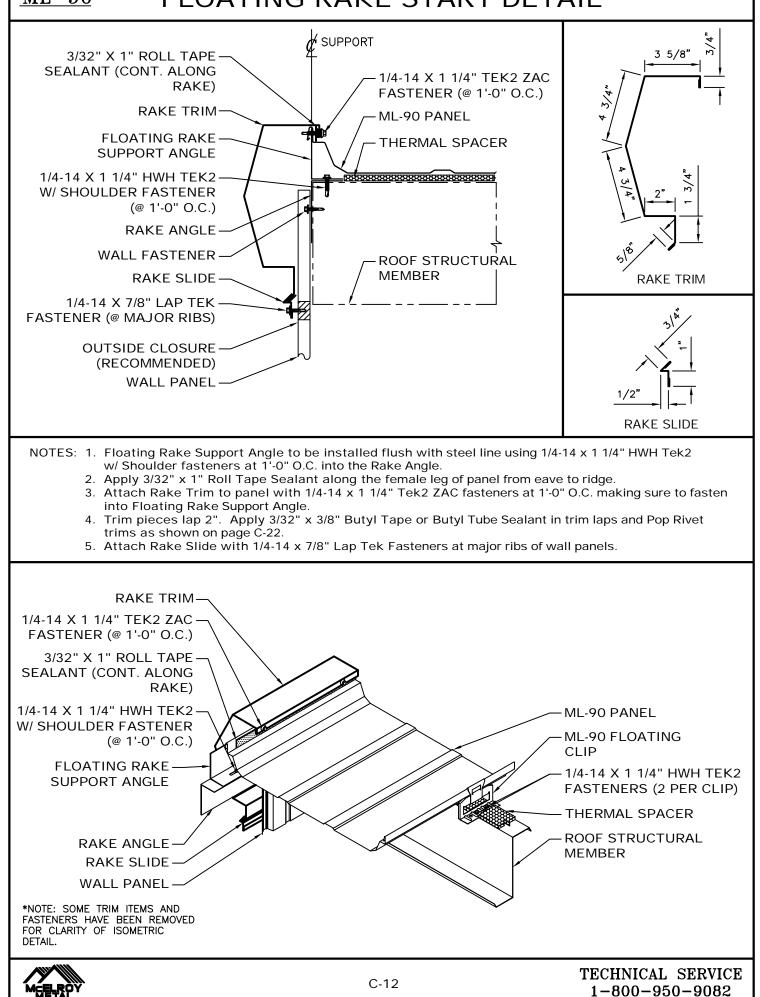


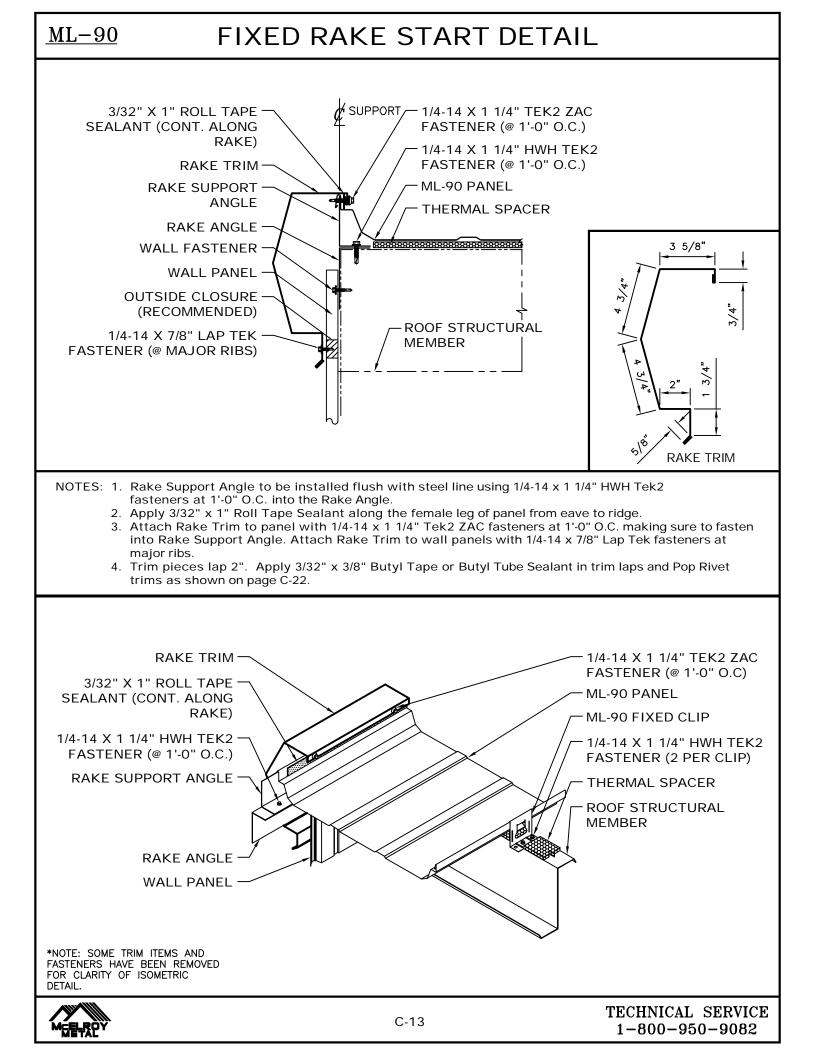


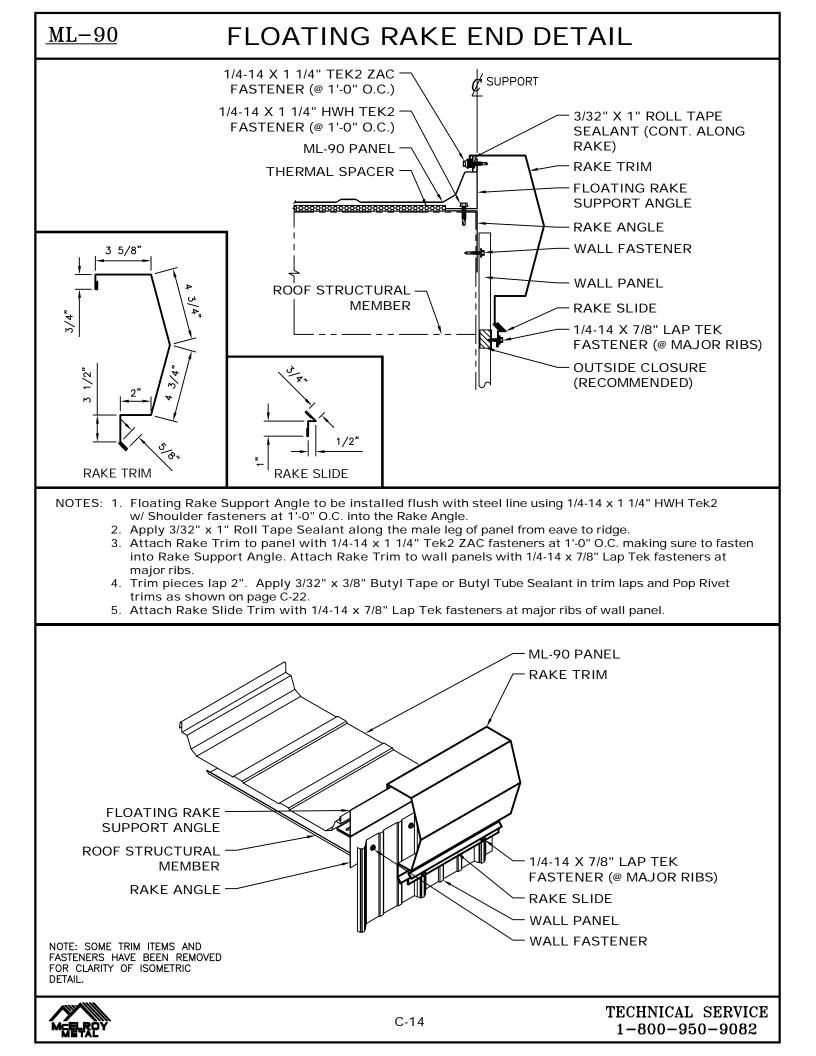
- 2. Apply Tube Sealant on the male seam 3" past notch.
- 3. Panel clip must be installed only after Back-up Plate is in place.
- 4. Place 1/8" x 1 1/2" Roll Tape strip exactly 3" from the end of the panel. Do not position the tape strip past the notch. See detail for location of tape strip. Press sealant into the corners of the panel configuration without excessive pressure and peel off paper backing. See application detail for proper procedure.
- 5. Place Tube Sealant approximately 1" uphill of Pre-Cut Tape sealant, as shown in the above detail.



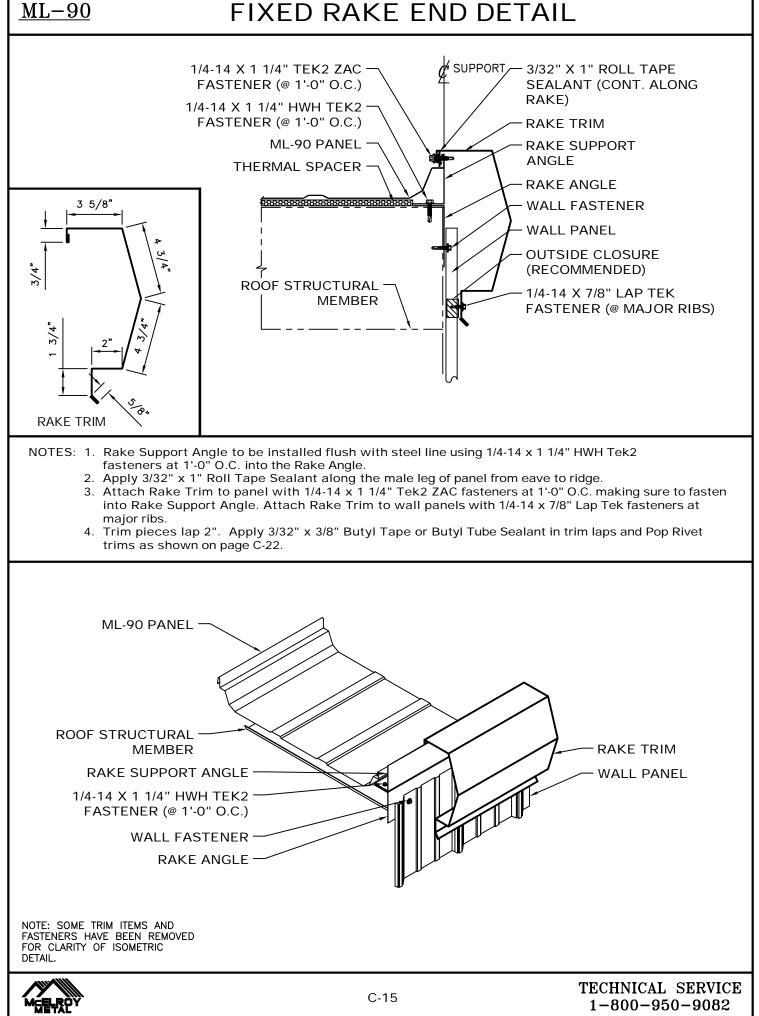
FLOATING RAKE START DETAIL

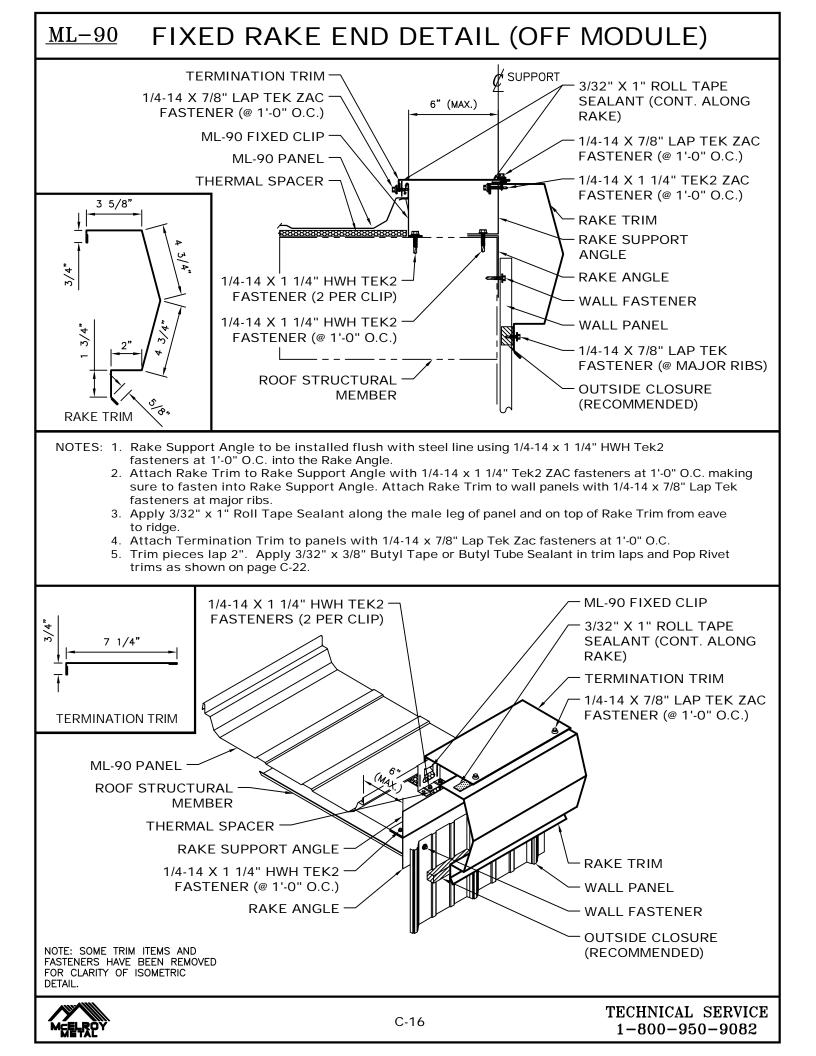


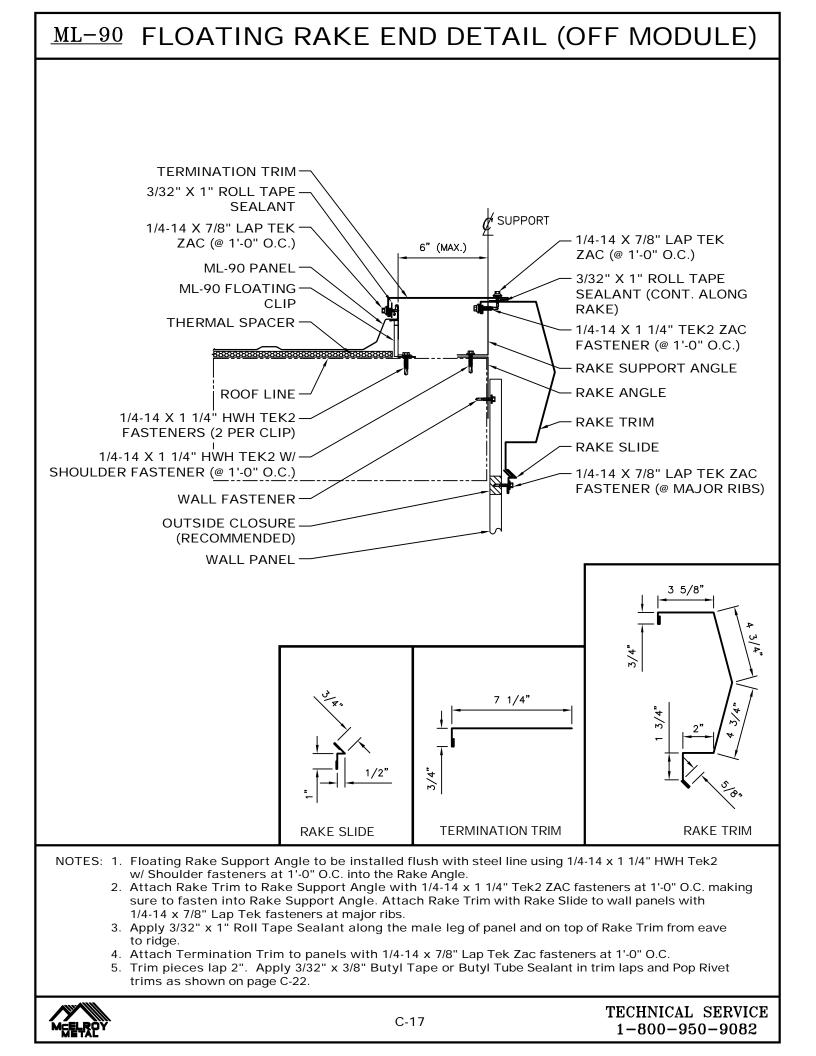




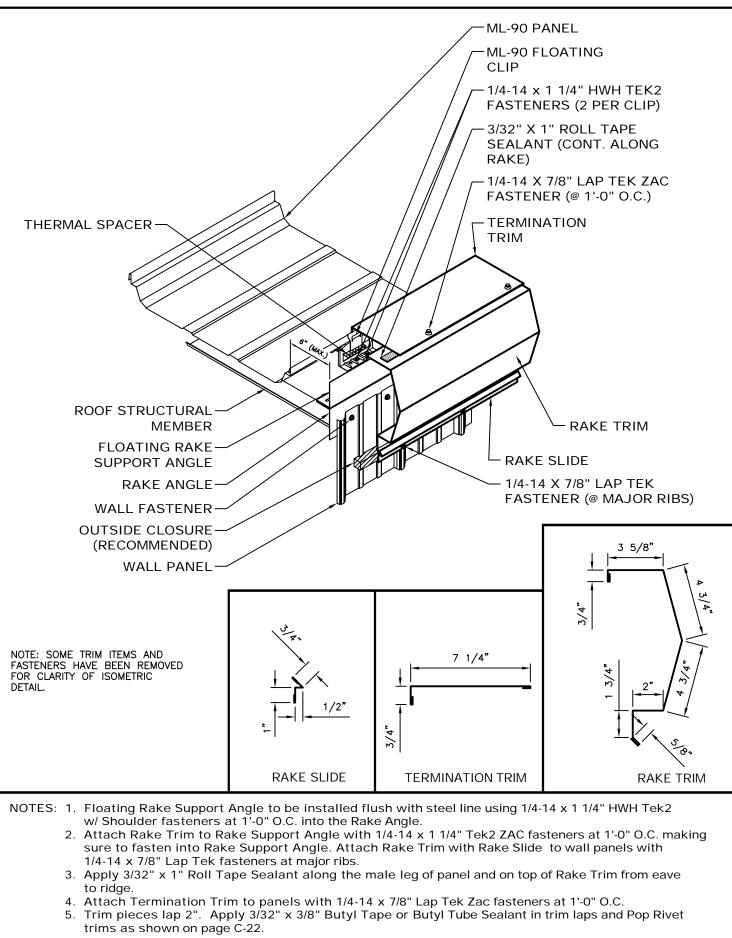
FIXED RAKE END DETAIL







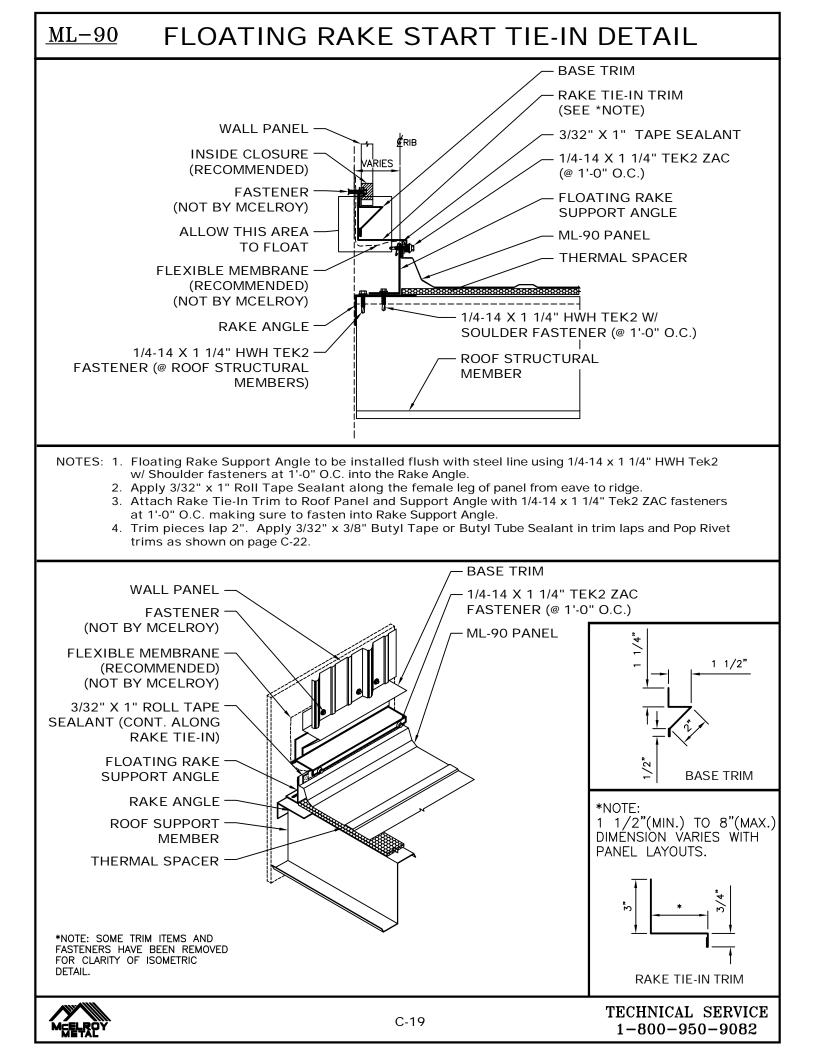
<u>ML-90</u> FLOATING RAKE END DETAIL (OFF MODULE)

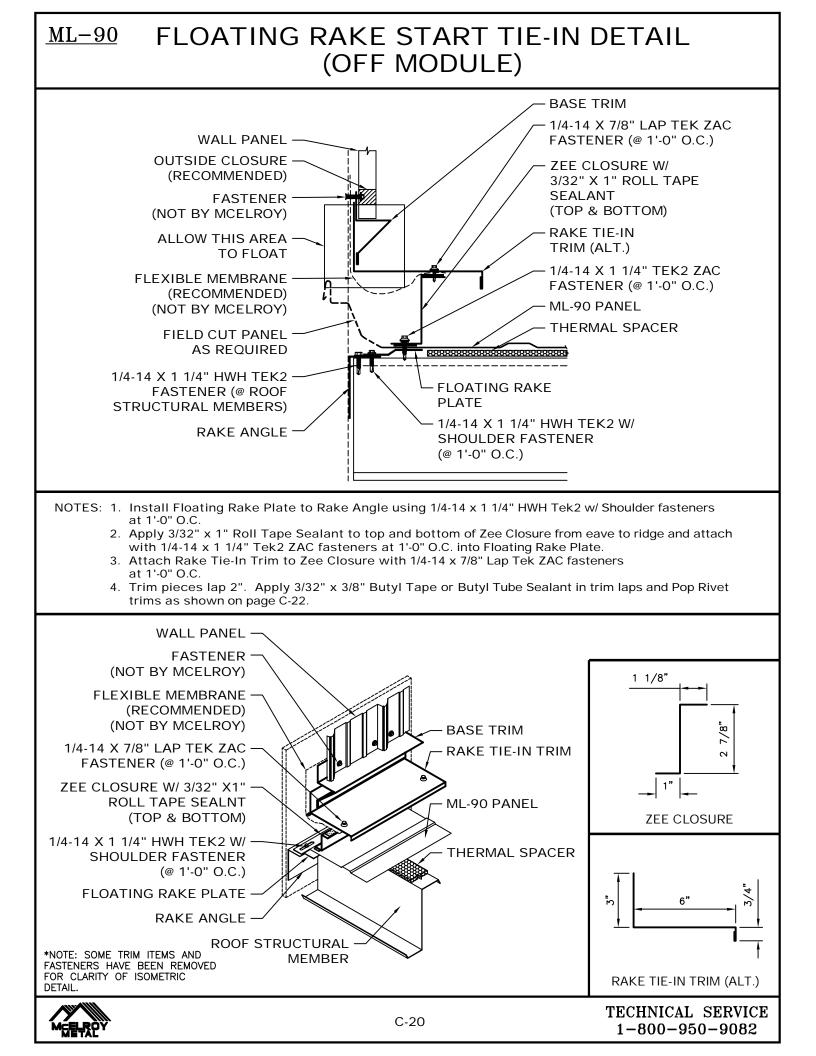


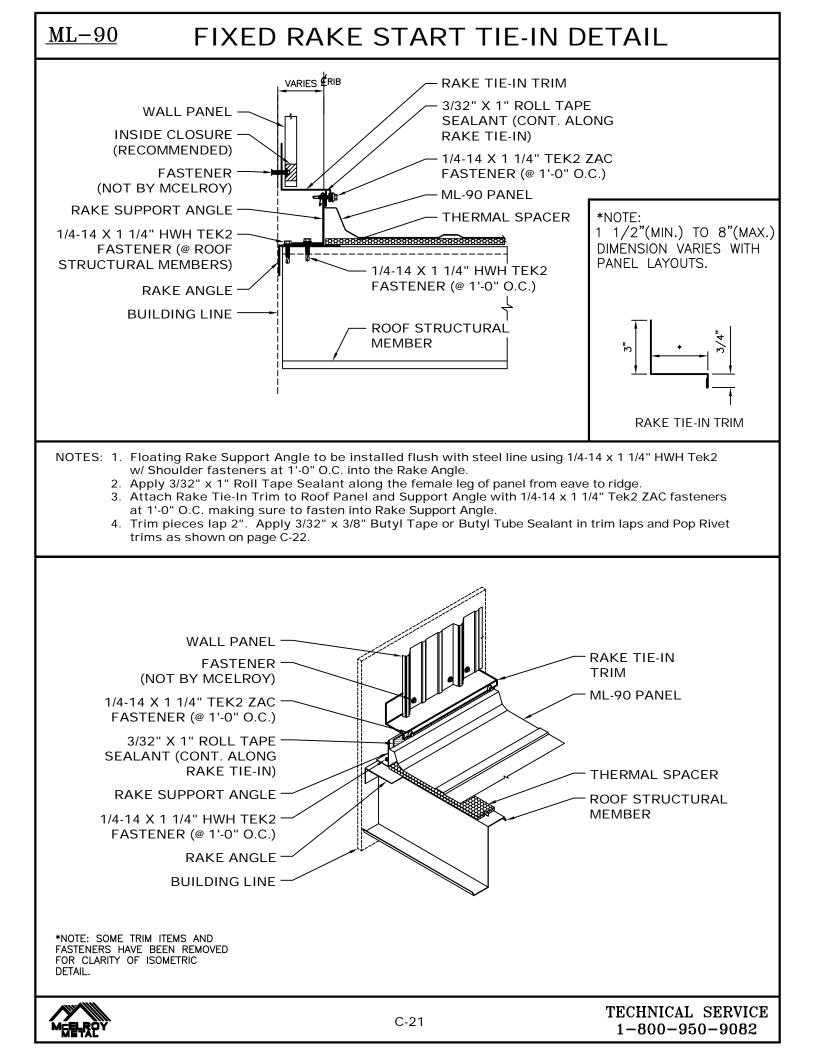


TECHNICAL SERVICE

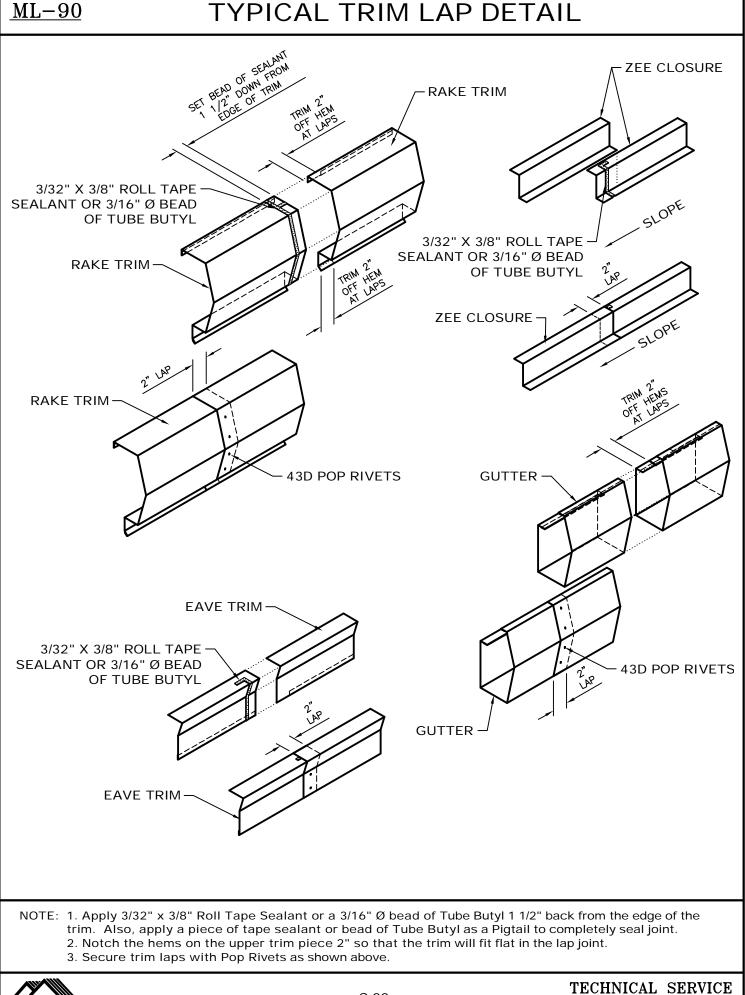
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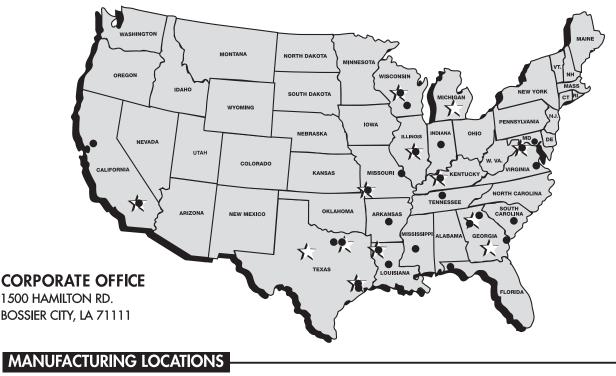
TYPICAL TRIM LAP DETAIL







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MCELROY METAL

TER

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