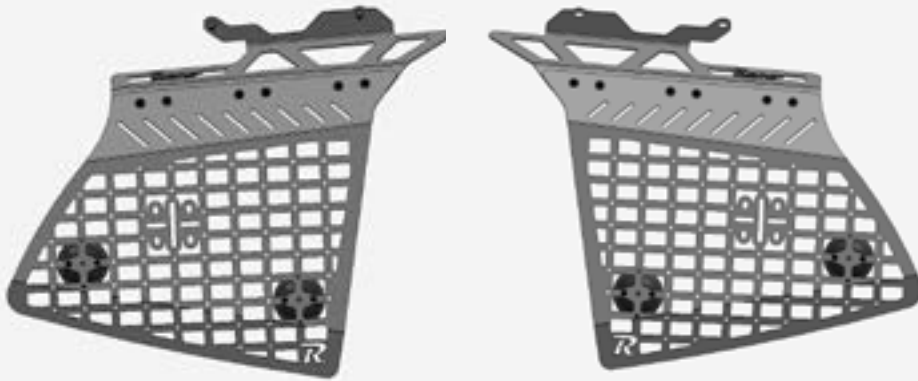


## FACTORY ROOF RAIL E-MSP 2019-2024/SUBARU FORESTER AC8509201NA, AC8509301NA, AC8509401NA



### TOOLS REQUIRED

- Tape Measure
- Sharpie
- Unibit Step Drill Bit
- Rivet Nut Installation Tool
- Philips Head Screwdriver
- 5/32 Allen

### SKILL LEVEL

- Easy

### TIME REQUIRED

- Approximately 30 Minutes

## WARNINGS/CAUTIONS BEFORE STARTING INSTALLATION

-BEFORE YOU INSTALL THIS KIT-

**Read and understand all instructions,** warnings, cautions, & notes contained in this installation instruction guide. Consult your vehicle owner's manual for proper disconnection of electrical and lifting of vehicle if required for installation of this product.

**This install may require some technical skills and knowledge of basic mechanical work. If you do not feel that you are capable of performing this install please take this product to a trained professional.**

After reading this guide please contact us with any questions or concerns before installing product.

Customer Service: 830-896-7571  
Rago Fabrication is **not** responsible for any bodily injury or harm to you or your vehicle as a result of an improper install.

Proper installation of this kit required knowledge of the factory recommended procedures for removal and installation of original equipment components.

We recommend that the factory shop manual and any special tools needed to service your vehicle be on hand during the installation. Installation of this kit without proper knowledge of the factory recommended procedures may affect the

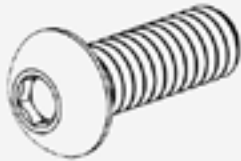
performance of these components and the safety of the vehicle. Inspect all contents of this package to make sure product is not damaged and all installation hardware has been included. If parts are missing from kit, please be prepared to provide the following information:

1. Name of purchase location
2. Bar Code on side of box
3. Date above bar code
4. Date inside box cover

**\*ALWAYS WEAR EYE PROTECTION  
WHEN OPERATING POWER TOOLS\***

## HARDWARE

A.



1/4-20 X 1/2" BUTTON HEAD

**QTY: 12**

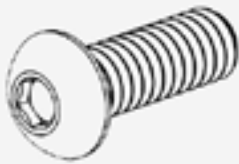
A1.



M6 FLAT WASHER

**QTY: 12**

B.



1/4-20 X 1" BUTTON HEAD BOLT

**QTY: 4**

B1.



1/4" FLAT WASHER

**QTY: 4**

C.



1/4-20" RIVET NUT

**QTY: 4**

D.



RAM 3.3" SUCTION CUP

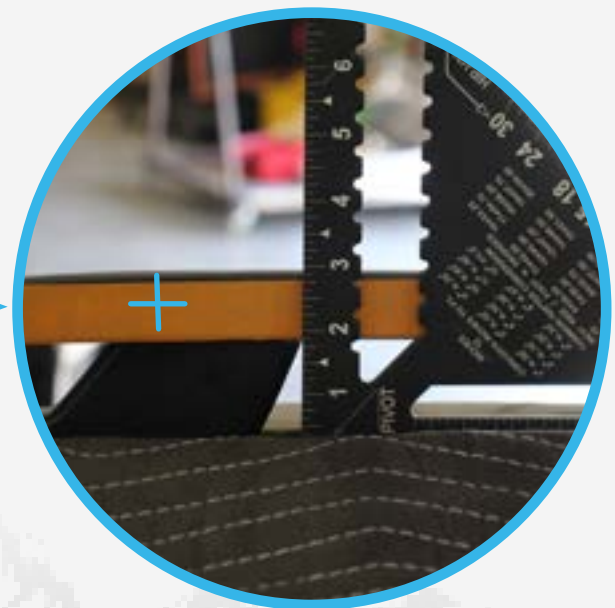
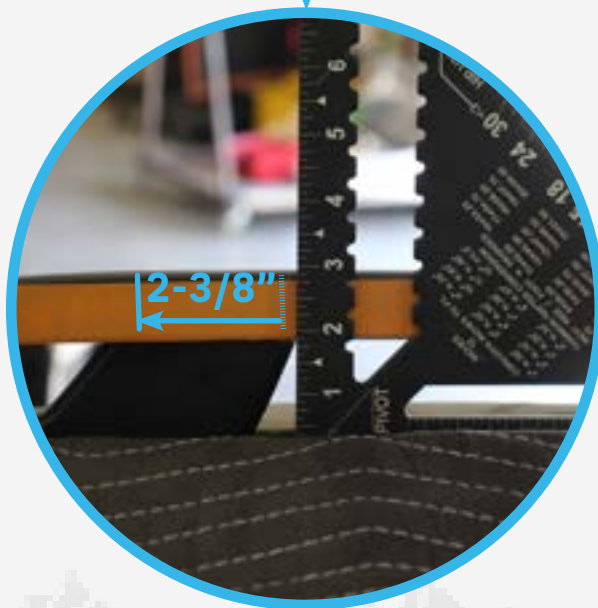
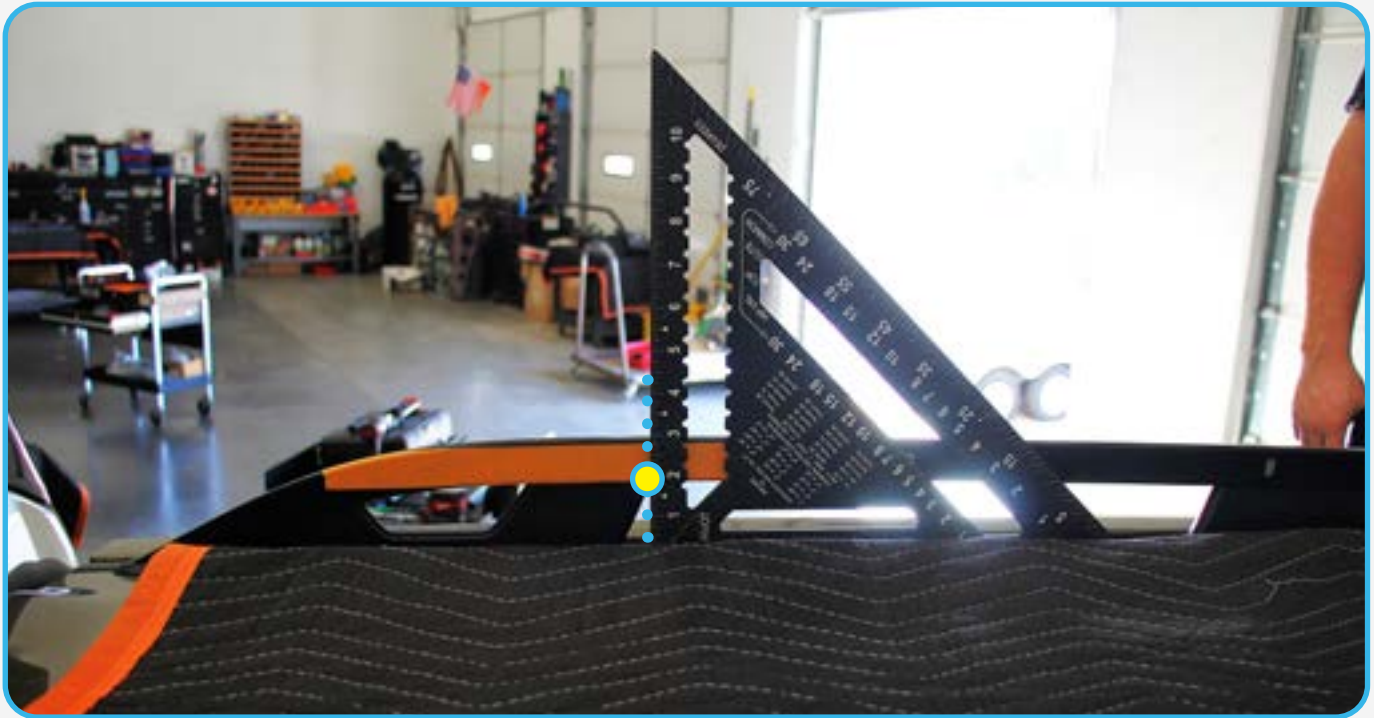
**QTY: 4**



## □ STEP 1

Working from the rear of the vehicle, locate the reference point indicated below (*at the top front corner of the rear mount*), then measure 2-3/8" rearward and mark the vertical center point of the factory roof rail.

(Repeat on other side)



## STEP 2

In the location specified in STEP 1, use a Unibit Step Drill to drill a 7/16 hole into the factory roof rail.

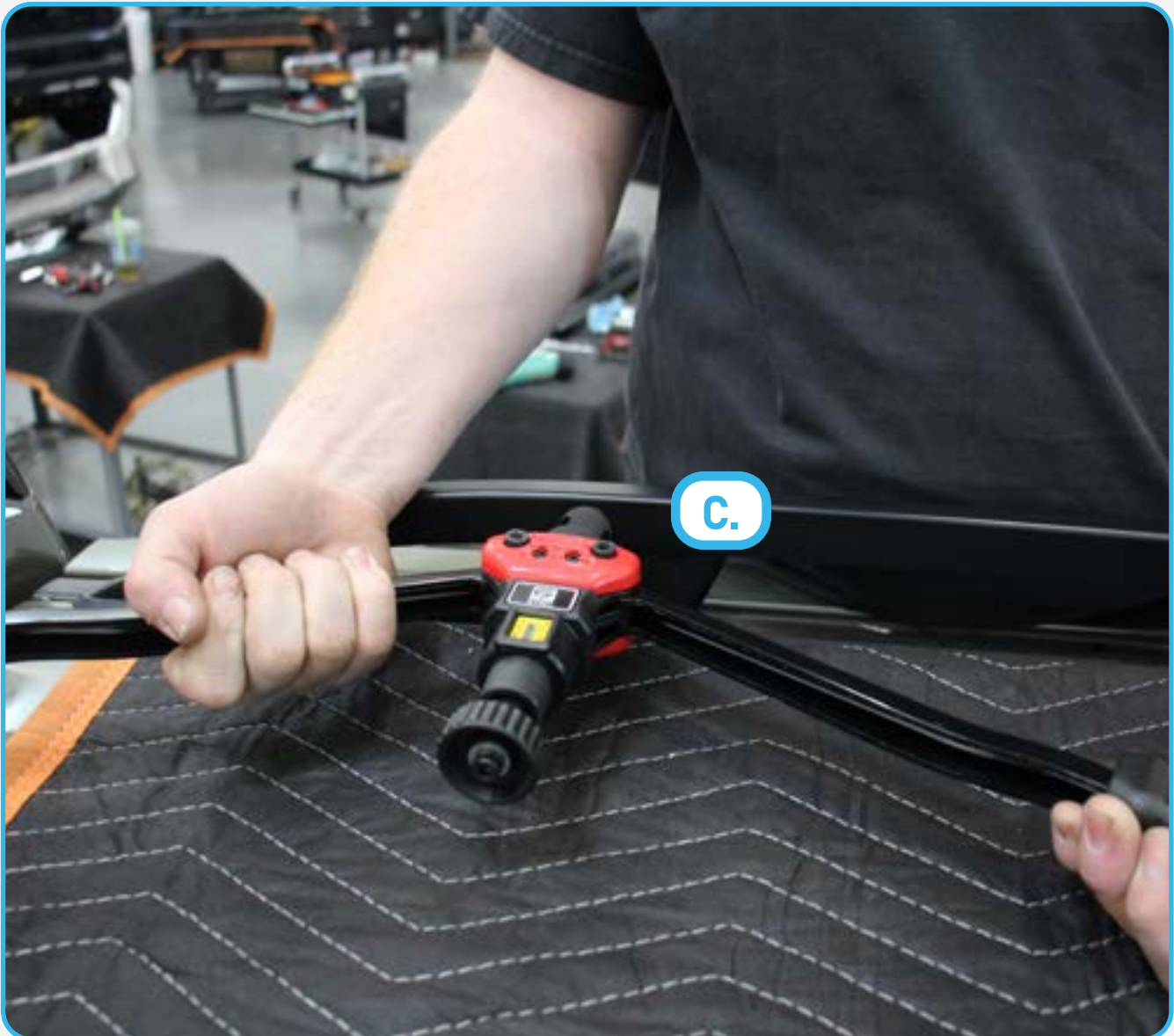
*(Use caution to ensure the proper hole size)*



## □ STEP 3

Using a Rivet Nut Installation Tool, install (1) of the supplied 1/4" Rivet Nuts (C) into the 7/16" hole.

(For best results keep the rivet nut square and centered during installation)



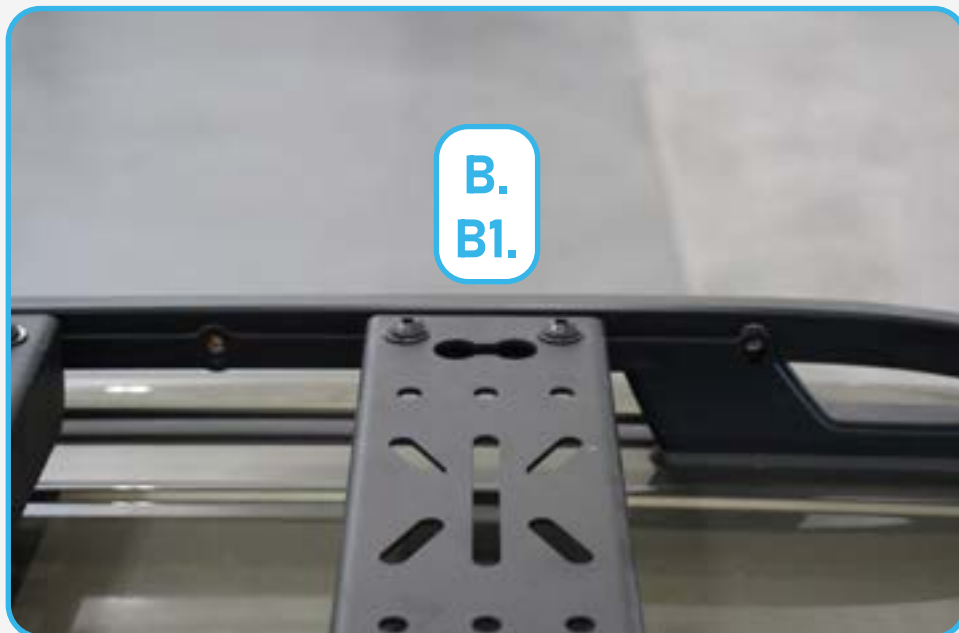
## STEP 4

At this point if you have purchased the Subaru Forester - Factory Roof Rail Crossmembers (AC8509501NA), reference that install guide prior to continuing installation of the E-MSP Panels.



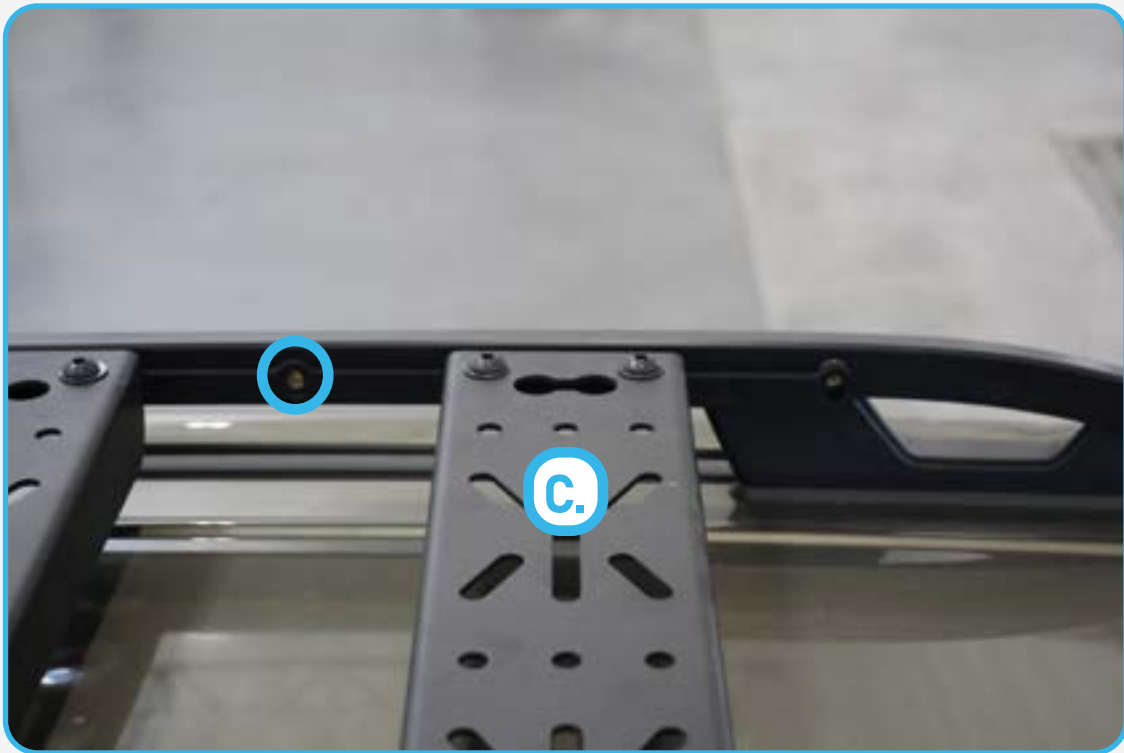
## □ STEP 5

Position the mounting plate as shown below, then secure it by the rear mounting hole to the factory roof rail by inserting (1) of the supplied (B) bolts and (1) of the (B1) washers into the previously installed Rivet Nut (C) from **STEP 3**.  
(Leave Loose At This Time)



## □ STEP 6

With the mount plate loosely installed by the rear bolt, mark the forward mounting hole location on the roof rail. Then remove the mounting plate and mark the vertical rail center point at the forward mounting location. Drill and install one of the supplied rivet nuts (C) as completed in **STEPS 2 & 3**.



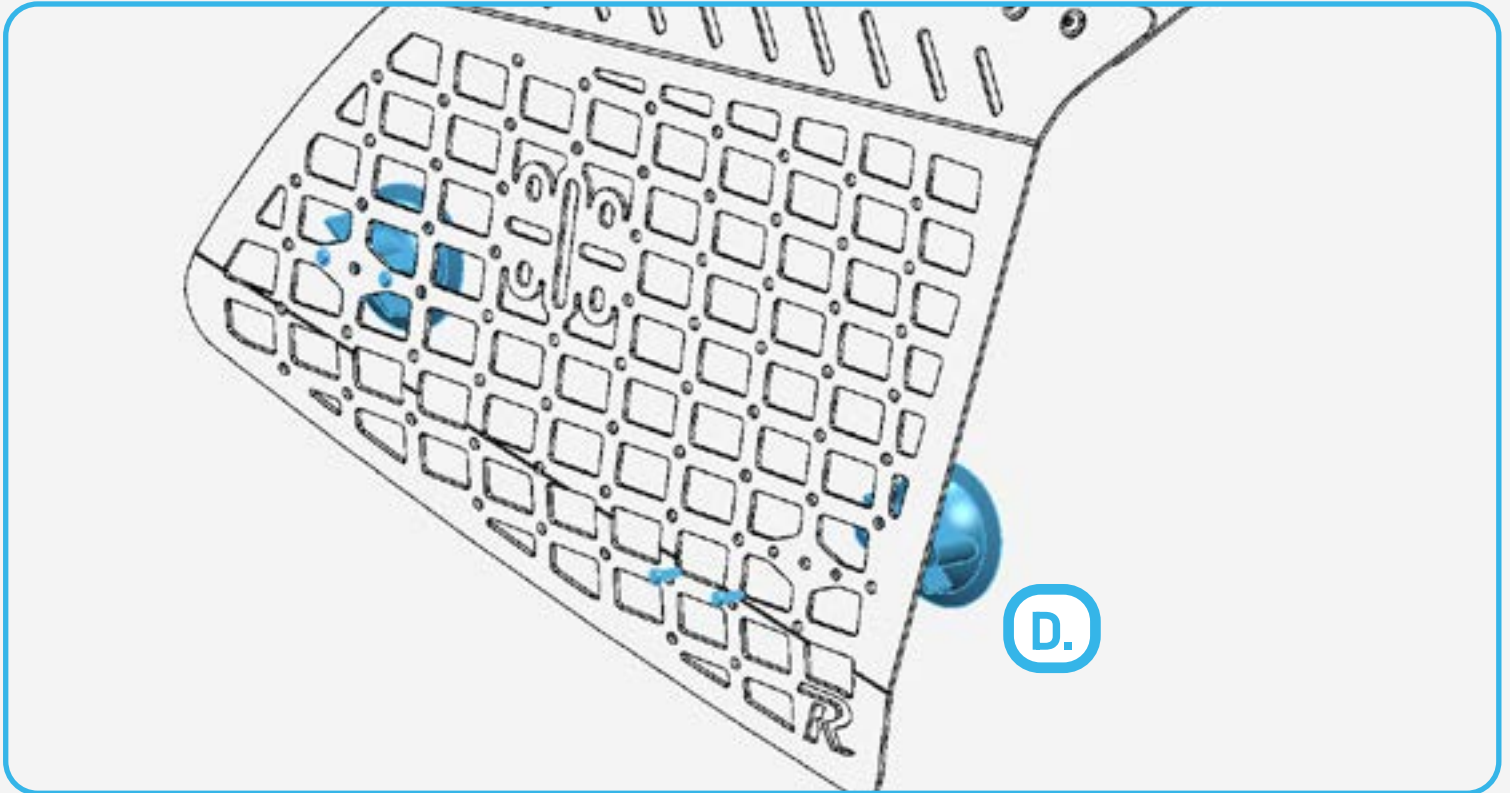
## □ STEP 7

Using a 5/32" Allen, and the supplied hardware (A, A1), reinstall the mounting plate as shown below. (Use a drop of blue loctite on each bolt. Leave the bolts loose at this time)



## □ STEP 8

Using a Phillips Head Screwdriver, install the RAM suction cups (D) as shown below.  
(Use care to not over tighten the screws into the plastic mounting holes)



## □ STEP 9

Using a 5/32" Allen and the supplied hardware (B, B1), loosely install the main E-MSP panel to the previously installed mounting plate. Position the E-MSP as desired, then proceed to tighten all hardware.

(Use a drop of blue loctite on each bolt)



## □ STEP 10

Position the E-MSP in the desired location and push the suction cups against the glass, then push the tabs clockwise to lock down.



## □ STEP 11

Stand back and enjoy your new RAGO Fabrication Factory Roof Rail E-MSP's.

Check and re-tighten all mounting hardware after 100 miles and periodically thereafter.

**CHECK OUT OUR FULL LINE OF PRODUCTS AT**  
[www.ragev.com](http://www.ragev.com) and [www.ragofabrication.com](http://www.ragofabrication.com)

