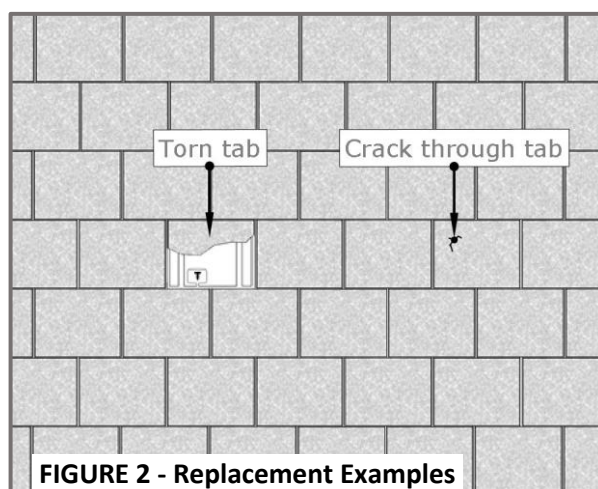
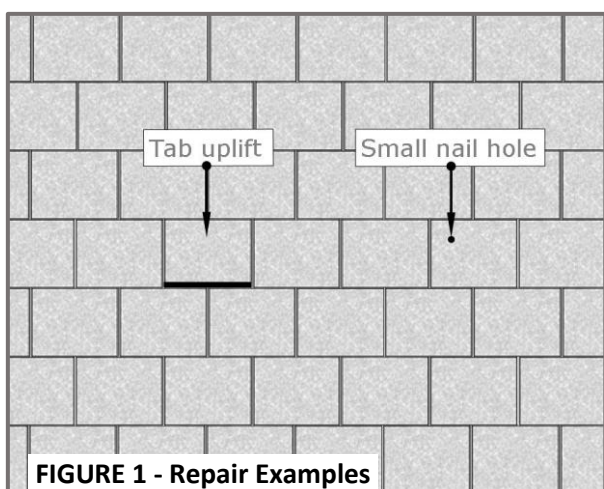


Technical Bulletin – Repair or Replacement

ABOUT THIS BULLETIN

- F-WAVE® REVIA® Roofing Shingles are made from a tough synthetic material and are less likely to suffer weather damage than typical shingles. If an F-WAVE® REVIA® Roofing Shingle does become damaged, first assess whether a repair or replacement is required.
- Follow all applicable state and local building codes and directions when assessing whether a shingle can be repaired. F-WAVE recommends that typically a shingle may be repaired if all tabs are in intact and damage is minor. See **REPAIR** section. For example, uplifted tabs and small nail holes without cracking can be repaired with F-WAVE approved sealant and adhesive. See **Figure 1**.
- If an F-WAVE® REVIA® Roofing Shingle has significant damage it will need to be replaced. See **REPLACEMENT** section. For example, replace any shingles with parts of a tab missing, or with cracks that could deteriorate with time See **Figure 2**.

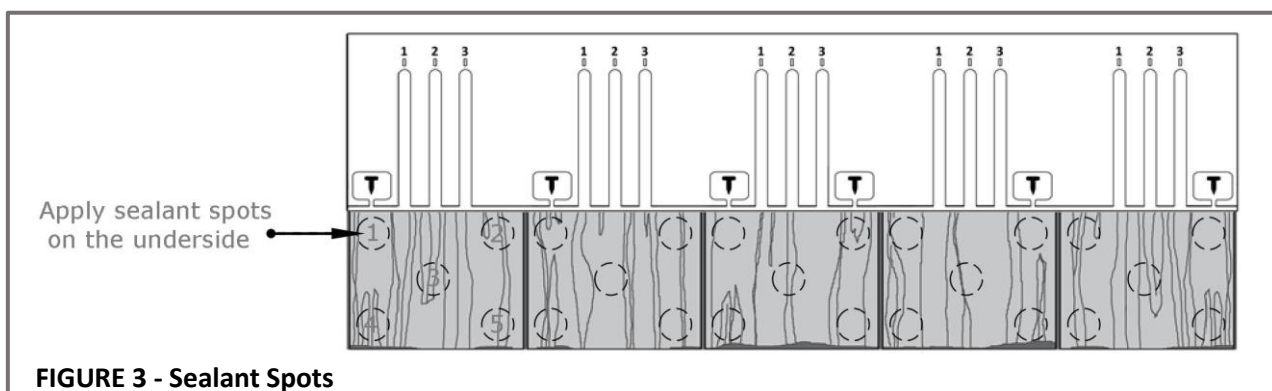


REPAIR

- When repairing small nail holes or other minor damage to a tab, apply a thick bead of sealant or adhesive onto the damaged area. Use F-WAVE approved sealant and adhesive. See **Table 1**.
- To repair an uplifted tab where the front edge lock has disconnected, hand seal the tab in place. For F-WAVE® REVIA® **XTM** Roofing Shingles, remove the front edge lock. Apply five 1" (25mm) diameter sized spots underneath the damaged tab. Press the shingle down into position. F-WAVE approved sealant and adhesive should approach the edge of the shingle, but not be exposed. See **Figure 3**.

MANUFACTURER	PRODUCT NAME
NPC Sealants	#900 Solar Seal®
R.M. Lucas Co.	#6600 Universal™ Terpolymer Sealant
OSI®	QUAD® Sealant
MuleHide Products	SEBS 1 Multipurpose Sealant

TABLE 1 - Approved Sealants & Adhesives



REPLACEMENT

- To replace a shingle first identify the location of all of the fasteners holding the shingle in place. In the example shown, 12 fasteners need to be removed. These are located underneath the tabs labelled 1-11. See **Figure 4**.
- For F-WAVE® REVIA® **XTM** Roofing Shingles, release the front edge lock on the damaged shingle by cutting the shingle lengthways and removing the front half of the exposure. Lift tabs 1-11 and any other tabs required to obtain access to each of the fasteners. Break and remove the Front Edge Locks. Take care to avoid damaging the tabs of undamaged shingles. See **Figure 5**.
- Use a pry bar to remove each fastener before removing the damaged shingle. See **Figure 6**.
- Replace the damaged shingle with an undamaged shingle of the same style and appearance. Slide the new shingle into place. For F-WAVE® REVIA® **XTM** Roofing Shingles engage the front edge lock. Reinstall all fasteners that had previously been removed. Hand seal tabs as required. Hold the front edge down using five 1" (25mm) diameter sized spots of F-WAVE approved sealant and adhesive. See **Figure 7**.

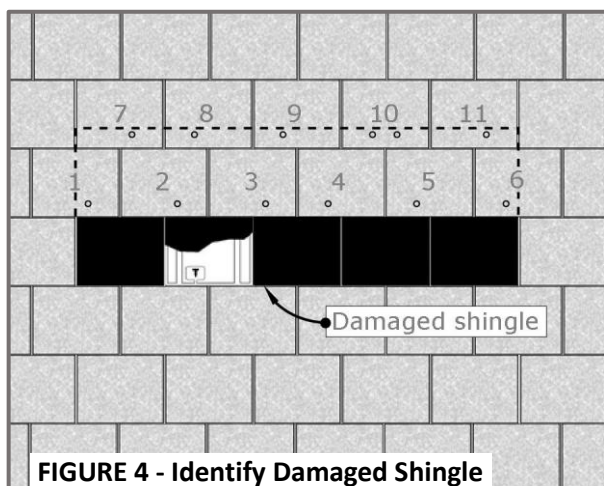


FIGURE 4 - Identify Damaged Shingle

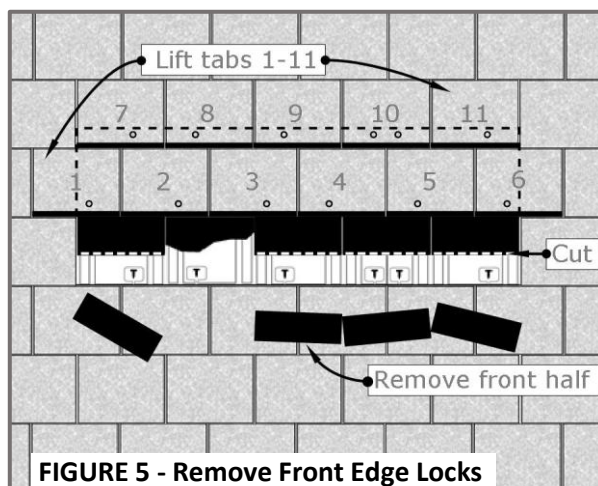


FIGURE 5 - Remove Front Edge Locks

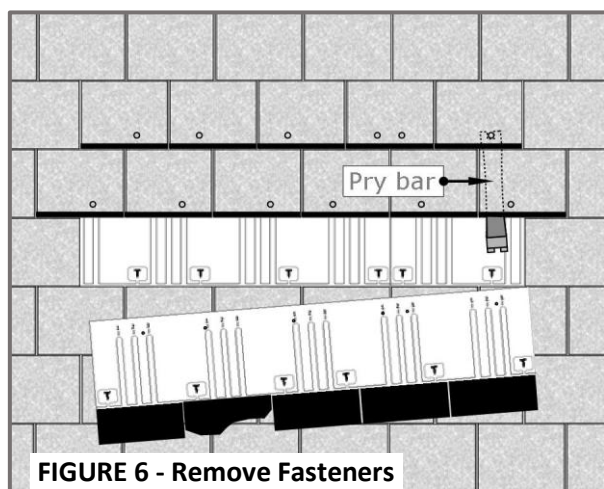


FIGURE 6 - Remove Fasteners

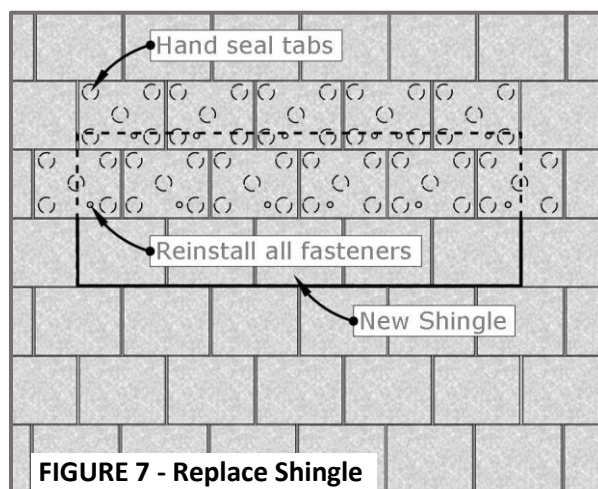


FIGURE 7 - Replace Shingle

NOTE

- Take care when using sealant and adhesive. **Seal failure due to installation temperatures being below the sealant manufacturer's minimum acceptable installation temperature is not a manufacturing defect.** F-WAVE accepts no responsibility for losses relating to sealant failure due to installation temperatures.

*Installers should consult the most recent F-WAVE Installation Manuals at fwaverroofing.com/resources to determine all recommended installation requirements. For additional support or questions, visit fwaverroofing.com or call F-WAVE Technical Support at **1-888-GO-FWAVE** (1-888-463- 9283). All product names, logos, and brands are property of FWAVE, LLC or their respective owners. All company, product and service names used are for identification purposes only. Use of these names, logos, and brands does not imply endorsement.*