

Technical Bulletin – Storage & Handling

ABOUT THIS BULLETIN

- This bulletin provides best practices for the shipping, inspection, storage, and handling of F-WAVE® REVIA® XTM™ Roofing Shingles throughout transit, at distribution centers, and on job sites.

SHIPPING

- Do NOT double or triple stack pallets.** Stacking pallets on top of each other will subject the materials on the bottom to excessive pressure, and could cause permanent deformation. See **Figure 1**.
- Ensure the transport vehicle bed is flat, clean and free of debris that could damage the bottom shingle layers.
- Secure all pallets adequately to prevent shifting during transport. Use appropriate edge protectors and corner guards to prevent any strapping from damaging the shingles.

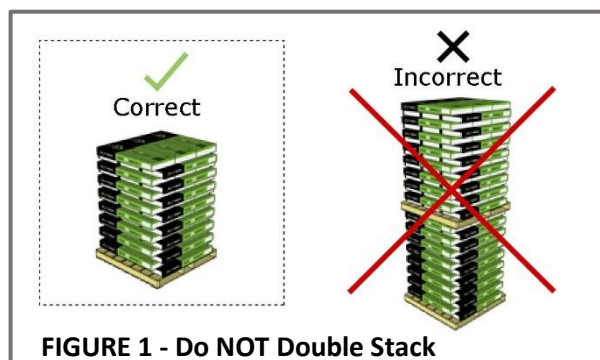


FIGURE 1 - Do NOT Double Stack

MATERIAL INSPECTION

- Visually inspect shingles upon delivery.
- Ensure all shingles delivered are undamaged, and are the correct product, profile and color prior to installation.
- Do NOT install damaged shingles.** Shingles with obvious damage, or that deviate from F-WAVE's specifications, or the specifications of the project must be set aside. F-WAVE accepts no liability for costs resulting from the installation of incorrect or damaged materials.

STORAGE GUIDELINES

- Keep shingles on their original pallet as-shipped when possible. **Do NOT stack pallets onto each other.** If pallets must be restacked, use wood blocks to keep the bundles flat on the new pallet. See **RESTACKING PALLET** section.
- Group shingle bundles by manufactured date. Rotate inventory so that the shingles stored longest are used first.
- After depalletization, store bundles on a flat, level surface in a dry, ventilated area to prevent moisture accumulation within the packaging and permanent warping. **Do NOT stack loose individual bundles more than three high.**

RESTACKING PALLET

- Bundles of F-WAVE® REVIA® XTM™ Roofing Shingles are typically supplied in wrapped pallets stacked 16 bundles high.
- When restacking pallets, replicate the original as-shipped pallet arrangement, using a safe and stable stack height. Position wood blocks between bundle layers so they lie flat and loads are spread evenly across each bundle. See **Figure 2**.
- Ensure all bundles are squarely aligned. Avoid excessive overhang at the edges of the pallet as unsupported bundles can cause shingles to warp.

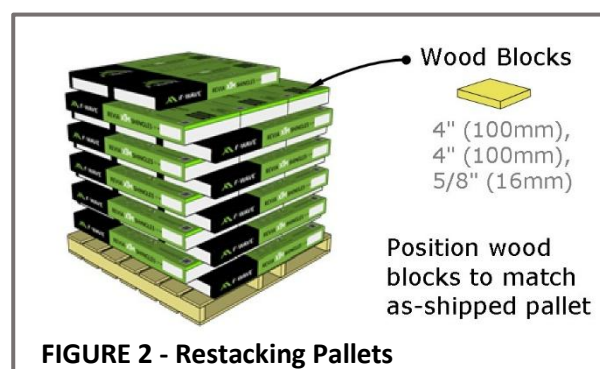


FIGURE 2 - Restacking Pallets

TOP-LOADING (ROOF LOADING)

- Top-loading refers to the delivery of shingle bundles onto the roof deck prior to installation.
- Do NOT stack shingles over the ridge.** Do not stack shingles up against roof penetrations such as attic vents. Doing so can deform the shingle's locking mechanism, making installation difficult.
- Distribute shingle bundles evenly across the roof, supported securely by properly installed toe boards or roof jacks. **Do NOT stack loose individual bundles more than three high.** See **Figure 3**.

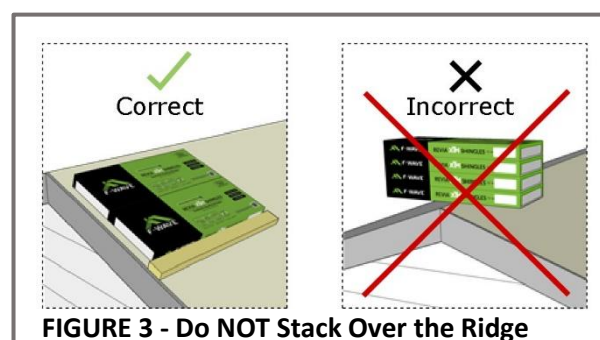


FIGURE 3 - Do NOT Stack Over the Ridge

SAFETY

- FALL PROTECTION EQUIPMENT MAY BE REQUIRED AND IS ALWAYS ADVISABLE.
- ALL ROOFING AND RELATED ACTIVITIES SHOULD ALWAYS BE COMPLETED WITH SAFETY IN MIND. ALL GOOD AND PROVEN SAFETY PRACTICES SHOULD BE FOLLOWED.
- ROOFING ACTIVITY CAN BE DANGEROUS. ALL NECESSARY PRECAUTIONS AND SAFETY GUIDELINES MUST BE FOLLOWED IN ACCORDANCE WITH PROPER ROOFING TRADE PRACTICES AND REGULATIONS, OSHA REQUIREMENTS AND LOCAL BUILDING CODES.

NOTES

- Shingles with minor distortion may have reduced groove height in some parts of the Front Edge Lock or Nail Line Lock which may cause installation difficulty.
- Where required, gently open the groove up by hand prior to installation.

*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.*