

Patching Recommendations

AAC Wall Panels



Chipping of AAC Panels

Due to the inherent nature of Autoclaved Aerated Concrete (AAC) material, minor chips may occur during transportation, handling, and installation (see Figures 1 to 4). These chips can be repaired directly at the job site.

Please follow the patching recommendations and procedures outlined on pages 2 and 3 of this document.

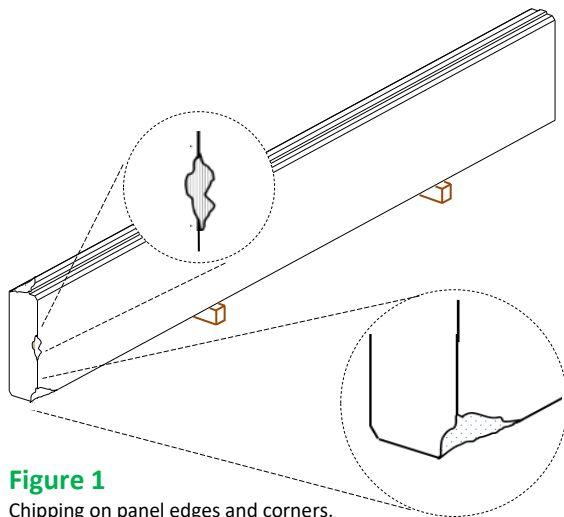


Figure 1

Chipping on panel edges and corners. Either at the bottom or top of the panel. At the top, in some cases the patching may interfere with the installation of the connector, drilling may be required to place the connector nail.

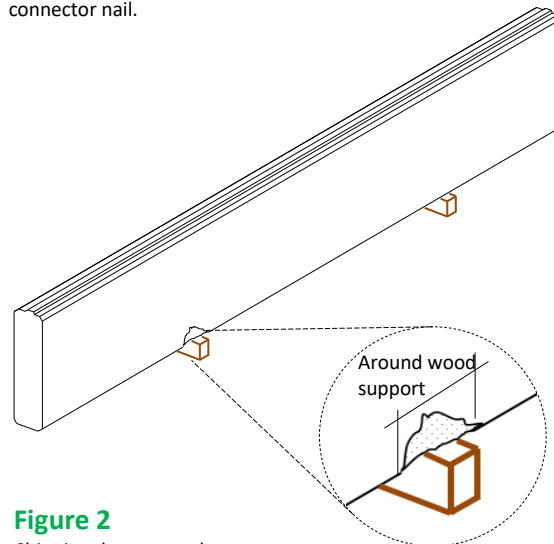


Figure 2

Chipping due to wooden supports.

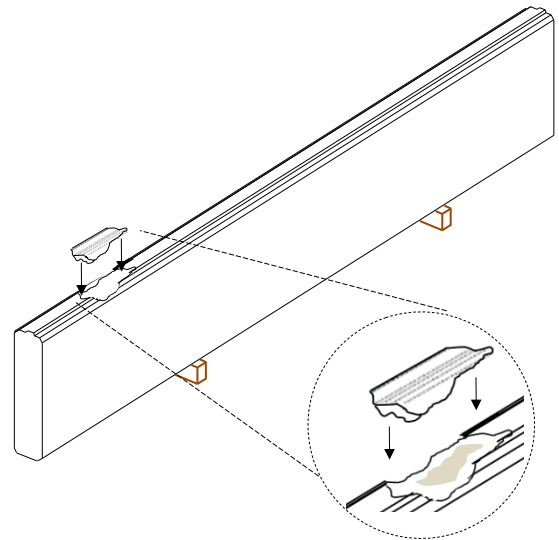


Figure 3

Unreinforced loosed pieces.

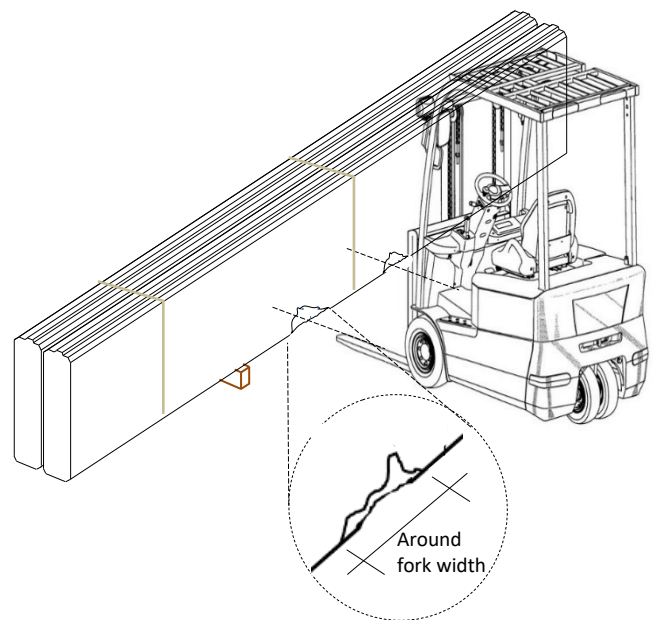


Figure 4

Chipping due to lifting equipment.

DRAWING NOT TO SCALE

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- Chipping on AAC panels can be repaired using a mix of Litecrete Thin Bed Mortar and Litecrete Patching Mortar (see patching procedure).
- Patching of AAC panels should be carried out before mounting panels in their final position.
- Use the recommended AAC materials, tools, and equipment listed in Figure 5 (unless otherwise indicated, or not provided by Litecrete).
- Surface scratches may be touched up with the same coating finish specified for the panels (see Figure 7).
- If necessary, first reinstall loose pieces of the panel using an acrylic latex bonding adhesive (such as SikaLatex® N or similar), then apply the patching mortar. Otherwise, apply the mix of Litecrete Thin Bed Mortar and Litecrete Patching Mortar directly (see Figure 6 and SikaLatex® N application instructions).
- Once the patched area is dry, use a Litecrete sanding board to reshape the panel section, panel edges, or profiles (see patching procedure).

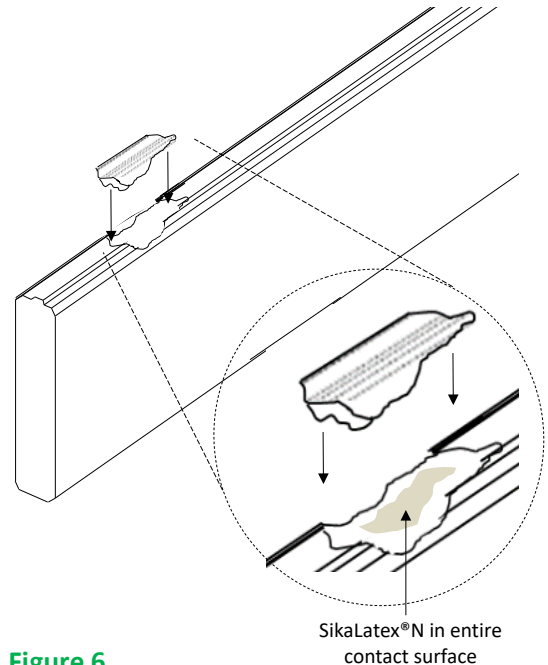


Figure 6
Unreinforced loose pieces.

Materials & Tools:

Material:
Litecrete Thin Bed Mortar*
Litecrete Patching Mortar*
Sikalatex®N or similar.
Clean Water.

Tools:
Plastic Bucket.
Masonry Brush.
Litecrete Sanding Float*
Finishing Trowel (Stainless Steel).
Putty Knives (Scraper).
Rubber Float.

Mixing Equipment.
Drill, mixing paddle, etc.

*Available directly from Litecrete.

Figure 5
Recommended items.

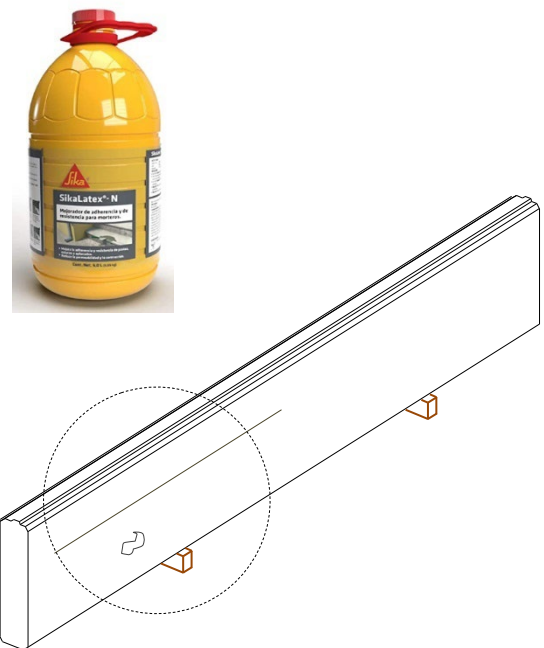


Figure 7
Surface scratches.

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Patching Procedure

Surface Preparation:

Panel surface must be clean and free of grease, oil, dirt, paint, and other residues. Clean the panel using the masonry brush. The surface must always be wetted before application of mortar.

AAC Mortar Preparation:

Add Litecrete Thin Bed Mortar and Litecrete Patching Mortar to clean water according to the mixing proportions. Mix mechanically (see figure 8) and manually (a small amount of material) until a workable consistency is achieved. Adjust the consistency by adding a small amount of powder or water as needed. For detailed instructions, refer to the reverse side of the Litecrete AAC mortar bags. Do not add water to the mix after the setting time has elapsed.

Mix Proportions	Thin Bed Mortar (Part)	Patching Mortar (Part)
15 - 30 min Setting Time	1	1
> 60 min Setting Time	2	1
Depending on temperature and humidity, mortar cures in 24 to 72 hr.		

Application:

Fill patches with mortar, extending it over the edges of the damaged area. After initial setting, level the surface flush with the plane of the substrate using a stainless-steel finishing trowel, rubber float, or similar tool (see Fig 10 to 12).

Once the patched area is dry, use a Litecrete sanding board to reshape the panel section, panel edges, or profiles.

Precautions:

Do not apply mortar if the temperature is expected to drop below 40°F within 24 hours of application.

Store Litecrete mortars in a place protected from rain and excessive moisture.



Figure 8
Mixing Litecrete Mortar



Figure 9



Figure 10



Figure 11



Figure 12

