



RIGID CORE GLUE-DOWN FLOORING INSTALLATION PROCEDURE

PURPOSE

The purpose of this document is to provide a detailed and systematic description of the specific methods and procedures to be followed during the Rigid core glue-down flooring installation process.

SPECIFICATIONS

- Building codes and regulations – IBC 2021, ASTM F710
- Flooring specifications : Rigid core glue-down flooring
- Adhesive specifications - Compatible with the flooring material / Manufacturer instructions
- Industry standards
- Safety standards and guidelines - OSHA

TOOLS & MATERIALS

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| 1. Trowel (8mm notches) | 8. Adhesive (recommended by Manufacturer) |
| 2. Chalk line | 9. 75-100 lbs Roller (for pressing tiles) |
| 3. Utility knife | 10. Carpenter square |
| 4. Vinyl plank cutter (if available) | 11. Knee pads |
| 5. Pencil and scale to mark | 12. Polyurethane sheet (If applicable for water proofing) |
| 6. Measuring tape | 13. Spirit level |
| 7. Expansion gap spacers | 14. Hand gloves |

PRE INSTALLATION CHECKS

- Store material at least 300mm above ground in a dry, temperature-controlled environment. This elevation is essential to prevent moisture absorption, while a dry and stable temperature setting protects against material damage from flooding, water exposure, or extreme temperatures.
- Avoid direct sunlight exposure and refrain from stacking heavy objects on top of the planks. Prolonged UV exposure can lead to discoloration and material deterioration, while heavy weights can cause deformation, compromising the planks' integrity and suitability for installation
- All workmen must wear PPE, including safety helmets, hand gloves, nose masks, gumboots/safety shoes, safety glasses, reflective jackets, and face shields, as applicable.



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- Prior to commencing plank installation, conduct a thorough inspection of the flooring area and prepare the Handover-Takeover (HOTO) documents to be signed by the respective personnel. Ensure that there is a proper approach to the work spot, adequate illumination in the work area, and confirm with the engineer the availability of a relevant risk assessment before beginning any formwork activity
- Ensure that the subfloor is clean, dry, and level. Use a spirit level to measure any deflection and confirm that the subfloor is within a level tolerance of 1/8" over a 10 ft span. The subfloor should not have upward or downward slopes exceeding 1/8" per 10 ft. If there are any downward or upward slopes, level the floor using a concrete subfloor leveler or a concrete grinder to achieve the required flatness
- In a newly constructed building it is necessary to dry the flooring surface for 7 to 14 days prior to application.
- As per ASTM standard F710, maintain the moisture content of the subfloor less than 3 lb/1000 sqft and relative humidity less than 75% from at least 48 hours before starting the installation.
- The PH of the sub floor must be between 7.0-10.0 to avoid alkaline damage.
- The temperature of the room must be maintained b/w 65 to 85° F, for at least 48 hours prior to the installation.
- Acclimate the boxes in the installation environment for 48 hours with a recommended temperature of 65-85° F.

INSTALLATION

- Determine the area of the room with length X width of the space & divide the area by the sq.ft provided on the box, to get the number of boxes required for that unit.
- While staging the boxes check the batch number to ensure seamless installation.
- Set a flooring guide line with chalk line for the starting row for successful installation.
- Determine the placement of the guideline taking into consideration the width of the edge row. Divide the room into three or four parallel sections for easy working.
- Make sure the first & last line of the planks are at least half of the plank width. If not possible for the given room dimensions, then equally divide the first line planks and last line planks width.
- Ensure that the last of the plank (laying along its length side) must be at least of ¼ of its length. So plan the layout accordingly.
- Work on one of the parallel portions of the floor at a time, and apply adhesives. Optimum usage of adhesive is 0.3 to 0.45 kg per square meter.



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- Given the nature of the product, we recommend the use of a permanent glue during installation for better compatibility and to establish a secure and long lasting bond . Specifically, we suggest utilizing adhesive options such as STAUF D737, MAPEI Ultrabond ECO VS90 Plus, or an equivalent adhesive and adhere to the manufacturer's instructions for the chosen adhesive.
- Lay the flooring product approximately 20 to 30 minutes after applying adhesive.
- Leave a gap of at least 5 mm from the wall and the edge of the first & last flooring line which acts as an expansion gap.
- The same will be applicable to the other two sides of the wall (Complete perimeter of the wall must have the expansion gaps).
- Once the tiles are placed, press the product down firmly so that the product lies flat on the ground. You can use a small roller to remove any undulations/ gaps at the joints.
- Repeat the same process for the remaining parallel sections.
- As the adhesives are highly flammable, avoid any contact with sparks or open flames.
- As the adhesives dry quickly, remove excess adhesive immediately.
- Install T-moldings at the transition points between the rooms and/or if the room length is exceeding 40ft. Do not glue the T-moldings to LVT planks as this will restrict the expansion scope.

POST INSTALLATION

- Upon completion of the installation use a 75-100 lbs Roller for pressing the floor to secure it.
- Clean any debris/dust on the floor.
- Allow the installed floor to cure before heavy traffic.
- Inspect joints for any visible gaps or irregularities.
- Make necessary adjustments as needed.
- Remove the expansion gap spacers and install the baseboard/ End Caps/ Skirting as per the requirement.
- Maintain the temperature, RH, and moisture content as per the standard for at least 72 hours post installation.
- To ensure the best care for the newly installed Rigid core flooring, follow our detailed care and maintenance instructions.