

LG Commercial Sheet Installation Guide

STORAGE & HANDLING

- When storing products, maintain appropriate temperature (10°C) and store upright. Careful attention should be paid to the possibility of rolls falling down. Secure completely to prevent accidents.
- Do not expose products to direct sunlight and moisture (water).
- Use a forklift for movement or loading/unloading as material is heavy and make sure that product is not damaged by the forks. If necessary, two people should move the product in order to avoid physical injury or damage.

BEFORE INSTALLATION

- Remove existing flooring. (When removal is undertaken, make sure that all applicable state, and Australian Standards are observed)
- Dry the subfloor to get the moisture content to below the recommended amount as stated in the Australian Standards.
- Clean the subfloor. Remove traces of dust, stains, paint, oil, grease, asphalt, varnish, wax, adhesive, and other contaminants.
- Any cracks, grooves, holes, and depressions should be levelled prior to installation.

PRECAUTIONS

- Flooring materials and adhesives ideally should be maintained at a temperature between 20°C and 30°C for at least 48 hours before and after installation.
- Be sure to store flooring materials upright. Do not lay flooring down for extended periods of time.
- When sheet flooring materials have been stored at cold temperatures, it is necessary to open the sheet flooring, roll out overnight for conditioning before installation.

IDENTIFICATION OF FLOORING PRODUCTS & ROUGH-CUTTING

- Examine the installation site to determine the number of rolls for installation required. Be sure to avoid placing seams in any entrance ways.
- Rough cut the flooring and allow it to be sufficiently conditioned to the working environment.

PRIMARY INSTALLATION

Primary installation according to the Knife Cutting Method or Scribe.

Cutting Method

1. Spread sheet flooring products over subfloor.
2. Portions along the wall surface and edge should be sufficiently adhered to the surface and cut in a 'V' shape from corner. Next, cut flooring to be slightly longer according to the shape of the walls.

Scribe Cutting Method

1. Spread sheet flooring products over the subfloor.
2. Place ends of sheet flooring up the wall surface slightly and spread balance over subfloor with certain distance from the front wall (about 4 inches).
3. Point a scribing tool toward the front wall and slowly move at a right angle to the flooring.
4. Use a hook-shaped knife to cut the flooring along the line that has been marked By the Scribing Tool. Use knife at a slant to cut more back side than the surface. Finally, set the flooring toward the front wall.
5. In order to cut the flooring at both wall sides, draw a line along the edge with a chalk and mark "+ line" on the subfloor and the flooring as shown in figure.
6. Move and spread the flooring until one edge of the flooring rising up the wall.
7. Accurately measure the distances of the line at a right angle to the subfloor and the line on the flooring moved. Draw a line on the sheet flooring with a scribing tool along the wall where the flooring goes down to the subfloor.
8. Cut the flooring along the drawn line with the hook-shaped knife and set the flooring toward the wall.
9. Cut the flooring rising up the opposite wall according to the same method.

ADHESIVE APPLICATION

Be sure to allow appropriate open time before installation. Open time means the interval of time beginning when the adhesive is spread on the substrate and shows the strongest adhesive strength by proper viscosity. NFD strongly recommends to use suitable hardset adhesive as per manufactures instructions.

- While preventing movement of the flooring sheets, turn up at least half of the sheet as shown.
- Snap a chalk line along the flooring folded part, which plays a role of guide for installation of the second half.
- Apply the specified adhesive and spread with the specified trowel.
- When the adhesive has full adhesive strength, carefully lay the flooring products while not leaving any air bubbles. Rolling with a 45kg (100 lb) or more 3-section roller is recommended. This rolling process removes air bubbles and contributes to complete bonding. If necessary, use a hand roller for corners.
- After adhesion of the first half, repeat the same procedures for the remaining half.

INSTALLATION OF SECOND ROLLS & REMAINING ROLLS

- Spread the second roll of flooring product over the subfloor while appropriately overlapping the embossed-line on the firstly installed flooring's edge and the embossing-line on the second edge.
- Conduct wall-side cutting according to the previously described procedures.
- Apply the adhesive.
- Install the other flooring sheets as above.

Note: In spite of constant manufacturing process, colour difference within different batches is possible. To avoid differences in designs and colours, Use only one batch for one single room. For all sheet-type product, the reverse installation is strongly recommended to get best appearance, especially for products with solid pattern.

SEAMS

Seams are the most important part in installation. Seams should be recess scribed for best results.

- Apply the adhesive with the specified trowel. When the adhesive has full adhesive strength, carefully lay the sheet flooring.
- Roll sheet flooring with a 3-section roller. Use a hand roller for seams and then, wipe any adhesive residue off of the seams.
- Continue the installation according to the same method.

SEAM CONNECTION

For seam connection, two methods are being applied; Heat Welding and Cold Welding (Chemical Welding). For commercial application, Heat welding is highly essential for better result.

CHEMICAL WELDING (Heterogeneous Sheet)

1st step: Side Welding

1. Thoroughly shake the chemical seam sealer for proper mixing.
2. Fold one half of the layer at the seam.
3. Apply chemical weld on the product at the seam. Clean up the excessive Chemical. Welding Solution immediately using dry towel dampened with mineral spirits or denatured alcohol.

2nd step: Surface Welding

1. Insert the tip of the welding applicator in the seam. Pull with steady pressure.
2. Clean up the excessive using dry towel within 30 seconds after seam welding.

Caution: Chemical welding solution left on sheet flooring for more than 30 seconds will damage the surface of the material.

HEAT WELDING (Homogeneous Sheet)

1. Prior to heat welding, the adhesive applied should be completely cured. Wait at least 24 hours.
2. Supply the power to the heat welding gun and heat it to 220°C. Temperature is very important in heat welding. Too hot or too slow may result in burning or melting the flooring surface.

3. Using a floor router, determine appropriate blade depth after trials with scrap material. Adjust the machine to have a groove approximately 2/3 depth of material.
4. Using a floor router, make a groove 2/3 in depth relative to the flooring's thickness along the seam line. Stop the router several centimetre from the wall and use a hand grooving tool to make the groove from that point to the wall.
5. Feed the welding rod into the welding gun nozzle. (In advance, practice welding work with use of scraps as in step 3)
6. Proceed welding at a constant rate.
7. As the gun approaches the wall, change the direction and continue welding.
8. Cut the protruding portion of welding rod to be flush with the sheets before rod cools down.
9. For other sheets, conduct heat welding according to the above instructions.

FINISHING & MISCELLANEOUS

- Sweep the floor.
- Wait 48 hours after installation before cleaning the floor. Remove any stained materials with a damp mop.
- Move furniture or other objects into the newly installed area 48 hours after installation. Use the hard board or cart to prevent any damage to the flooring.
- For heavy furniture or objects, use the pad to prevent any damage to the flooring.