Amdry Installation Manual

STRONGER EVERY DAY

INNOVATIVE INSULATION CONSTRUCTION SOLUTIONS FOR ENERGY EFFICIENT AND COMFORTABLE BUILDINGS
Section 1 - Before Starting the Installation

Tools Required
- Measuring tape
- Utility knife
- Straight edge
- Rubber mallet
- Circular saw with plywood blade
- Pull or pry bar
- 1/2” (13mm) spacers
- Pencil or marker
- Tapping block (made from scrap 2x4” (38x89mm) lumber)

Panel Calculations
- Each panel is 2x4’ (610x1219mm) or 8ft² (0.74m²).
- Measure the basement area to determine the number of Amdry panels required.
- Divide the total square footage by eight to get the number of panels needed.
- It is recommended to include an extra panel for additional cut outs and waste.

Section 2 - Amdry Installation

Step 1
- Check to make sure the floor is level by using a carpenter’s level and a tape measure over the area that Amdry is installed over. Amdry panels will accommodate minor irregularities and uneven spots in the floor of up to 1/4” (6.3mm).
- Any area that is uneven more than 1/4” (6.3mm) over a 36” (914mm) to 48” (12919mm) length should be repaired to a level surface by using self-leveling concrete product following the manufacturer’s instructions.
- NOTE: It is not recommended to use concrete floor sealer on the concrete floor prior to installation. Amdry subfloor system is designed to allow any moisture to dry out eliminating the need to seal the floor.

Step 2
- Place panels in the basement for a minimum of 24 hours prior to installation to acclimatize to the room, lay the panels flat to the floor.
Step 3
• Sweep and/or vacuum all loose debris off the floor to make it clean allowing for panels to lay flat.

Step 4
• In the selected starting corner, place 1/2” (13mm) spacers at each side of the starting corner.

Step 5
• Place the first Amdry panel.

Step 6
• Cut an Amdry connector at 22-1/2” (571mm) for the short end (this will allow for the 3/8” (9.5mm) connector insert in the long side panel on either side).

• Place the 22-1/2” (571mm) connector in the first laid panel, this can be inserted easily by hand and a light tap with the rubber mallet will ensure a tight connection.
Step 7
- Place two more spacers at the side of the wall and slide the second Amdry panel into the connector of the first panel. Continue on with this process until you come to the end of the wall. It may be necessary to cut the last panel of each row to fit the room size.
- Remember to include the ¾” spacer at the end of each row. Place the 4’ (12919mm) connectors on the long side of the Amdry panels that have been installed.

Step 8
- For the second row, start back at the original starting point beside the first panel placed. Place two spacers at the wall.
- It is recommended to stagger the panels in each row to provide additional strength by starting with a half panel. This can be achieved by either cutting a full panel in half or using a leftover piece from the previous row.
- Using the straight edge, mark the center of the panel, place a piece of 2x4” (38x89mm) under the panel, and using the circular saw with the plywood blade cut the panel.

Step 9
- Slide the 2x2’ (610x610mm) cut panel into the long end side connector of the first panel using the tapping block to secure.

Step 10
- Cut an Amdry connector at 22-1/2” (571mm) for the short end (this will allow for the 3/8” (9.5mm) connector insert in the long side panel on either side).
- Place the 22-1/2” (571mm) connector in the first laid panel, this can be inserted easily by hand and a light tap with the rubber mallet will ensure a tight connection.
Step 11
• Continue to lay the second row with full size panels.

Step 12
• Place 4’ (1219mm) connectors into the second row of installed panels. The connectors will ensure a snug and tight fit.

• Remember to fully insert the connectors into the groove of the Amdry panel.

Step 13
• For tight areas or the last panel and row installation the use of a pull bar and mallet will be required to connect the panels together.

Step 14
• Once the installation is complete, the spacers that were placed around the room to allow proper air movement for drying may need to be left in place depending on the finished flooring that will be installed on top of the panels.
Section 3 - Finished Flooring Installation on Amdry

Laminate
Laminate flooring can be floated or glued down. Required plank thickness 6mm or thicker. For floated installation, keep the 1/2” (13mm) spacers in place. It is generally recommended to install waxed flooring paper or foam underpad (Thermoquiet recommended) directly on top of the panels, both of which will act as a vapor barrier. Install the laminated flooring on top of the foam underpad or waxed paper. Remove the wall spacers after the laminate floor has been installed followed by the baseboard.

Carpet
Carpet can be installed as either a stretch in or direct glue down applications. For stretch installation, remove the 1/2” (13mm) spacers used in the Amdry installation and install tack strips around the perimeter of the room. If panels are not fully flat, install a single concrete screw in the middle of each panel. Install the underlay (Thermoquiet recommended) and staple directly to the Amdry Subfloor as one would with any wood subfloor. Once the carpet has been installed. Install the baseboard around the perimeter of the wall, this will cover the air space and continue to allow the system to perform properly.

Tile
For this type of floor finish, the subfloor must be solid without any deflection. To achieve this, the panels need to be mechanically fastened to the concrete using concrete screws. Use two screws with a minimum penetration of 1/2” (13mm) into the concrete and placed 12” (305mm) from the edges. Once the entire area to be covered with tile is secured, use adhesive mortar (thinset cement) with 3/4” (19mm) trowel with a minimum clear mortar of 1/2” (13mm).
Vinyl Plank
Vinyl planks can be floated or glued down. Required plank thickness 4mm or thicker. For floated installation, keep the 1/2” (13mm) spacers in place. It is generally recommended to install waxed flooring paper or foam underpad (Thermoquiet recommended) directly on top of the panels. Install the vinyl planks flooring on top of the foam underpad or waxed paper. Remove the wall spacers after the laminate floor has been installed followed by the baseboard.

Sheet or Adhesive Backed Vinyl Tiles
Keeping the 1/2” (13mm) spacers in place, install a 1/4” (6.3mm) plywood sheathing directly to the Amdry panels using 5/8” (16mm) screws. Remove the wall spacers once the plywood has been installed. Glue the vinyl floor or tiles to the installed plywood according to the vinyl floor manufacturer’s installation instructions.

NOTE: Do not glue vinyl sheet flooring or tiles directly to the Amdry subfloor system.

Engineered Hardwood
Keeping the 1/2” (13mm) spacers in place you can begin to install engineered hardwood planks. This product does not require an additional subfloor and is installed as a nail down application directly into the Amdry panels system using approved 1-½ - 2” (38-51mm) barber flooring cleats. Remove the wall spacers after the engineered hardwood has been installed. Install the baseboard around the perimeter of the wall covering the air spaces.

Solid Hardwood
Keeping the 1/2” (13mm) spacers in place you can begin to install solid hardwood planks. This product does not require an additional subfloor and is installed as a nail down application directly into the Amdry panels system using approved 1-½ - 2” (38-51mm) barber flooring cleats. Remove the wall spacers after the engineered hardwood has been installed. Install the baseboard around the perimeter of the wall covering the air spaces. Not suitable for below grade applications.
Amdry is a Do It Yourself (DIY) all-in-one insulated subflooring system with a moisture barrier designed to be installed over existing concrete slabs. Competitive pricing, extensive product distribution and excellent technical support are combined to provide our clients with a simplified approach to a superior finished product. If any questions or concerns are not completely addressed in this manual, please contact us and our staff will be happy to answer any question. At Amvic, we pride ourselves in offering our customers an exceptional level of customer service.

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This manual provides a basic guide for the installation of Amdry and is intended to supplement, rather than replace basic construction knowledge. All installations of Amdry must be in accordance with all applicable building codes.

Technical Support

Please contact us for any inquiries pertaining to information included in this manual, or if you require any other technical assistance.

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