

WOODWORKS Channeled Plank

Assembly and Installation Instructions

1.0 GENERAL

1.1 PRODUCT DESCRIPTION

WoodWorks Channeled acoustical wall panels are available in nominal size of 192x2400mm having thickness of 15mm. The two long sides interlock with a tongue and groove detail. The two short ends are cut square. Clips hold the panels to the wall (along the aluminium keel) or to a grid ceiling. The Laminate finishes are Portland Maple, Sea Beech, Siam Wood, Mystique Walnut, Interior White & Alumina Pearl. When installed as a wall, the panels can run horizontally or vertically. The same panels can be used as ceiling planks when installed on grid system.

1.2 MATERIAL & SURFACE FINISH

All planks are constructed of moisture resistant fiberboard. The surface finish of laminates have eggshell gloss or suede finish.

1.3 STORAGE & HANDLING

All ceiling and wall components should be stored in a dry interior location and shall remain in the original packaging prior to installation to avoid damage. The materials shall be stored off the floor in a flat, level condition. Do not store in unconditioned spaces with humidity greater than 55% or lower than 25% or with temperatures above 30°C or lower than 20°C. Use proper care when handling to avoid damage or soiling.

⚠ Use proper care and caution when handling suspension systems due to the sharp edges on all exposed clips.

1.4 SITE CONDITIONS

Building areas that will receive ceiling or wall panels shall be free of construction dust and debris. Installation of the products shall be carried out where the temperature is between 20°C and 30°C and relative humidity levels maintained between 25% RH and 55% RH. These temperature and humidity conditions must be met throughout the lifetime of the ceiling or wall.

Real wood and wood composite products are natural building materials and they will react to changes in humidity. (Wood tends to contract with lower humidity and expand with higher humidity.)

Wood could also have a tendency to warp, twist or bow, due to the natural stresses in the components and humidity changes. Be aware of these natural tendencies when evaluating the products.

It is also necessary for the area to be enclosed and for the HVAC systems to be functioning and in continuous operation. All wet work (plastering, concrete, etc.) must be complete and dry. It is mandatory to apply/install appropriate vapour barrier before installation of WoodWorks Channeled Planks on the vertical surface.

(Note: The equilibrium moisture content for a generic plaster should be checked and be less than 0.2% at RH value of 70. The area should be free from any possible seepage/dampness from the surrounding.)

These products cannot be used in exterior or semi-exterior applications. To ensure that the ceiling or wall panels have stabilized to the current building conditions, prior to their installation, the panels must be placed in an environmentally stable building location for a minimum of 72 hours.

1.5 COLOR

WoodWorks Channeled planks are made with laminate finishes, in case of laminate finishes there would be a variation in visuals for material of different batches. To maximize visual consistency, planks should be unpacked and examined collectively to determine the most desirable arrangement for installation.

1.6 ORDERING CONSIDERATIONS

Be sure to account for extra material that is normally needed for wood installations. Consider ordering at least 5% extra material for typical installations. Up to 10% more may be needed for odd size or diagonal installations. It is the customer's responsibility to plan each layout and order the correct amount of installation material needed, taking into account their design and the dimensions of the nominal 192x2400mm wide plank modules.

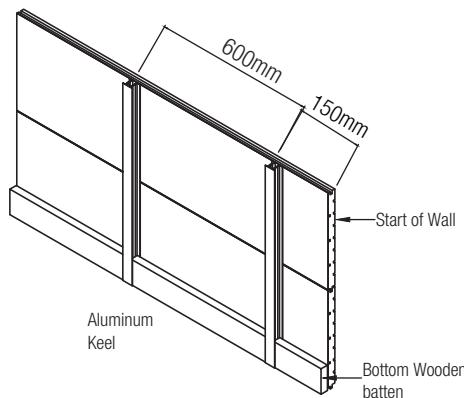
2.0 FIRE PERFORMANCE

As with other architectural features located at the ceiling, WoodWorks Channelled may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channelling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, and their local codes for guidance where automatic fire detection and suppression systems are present.

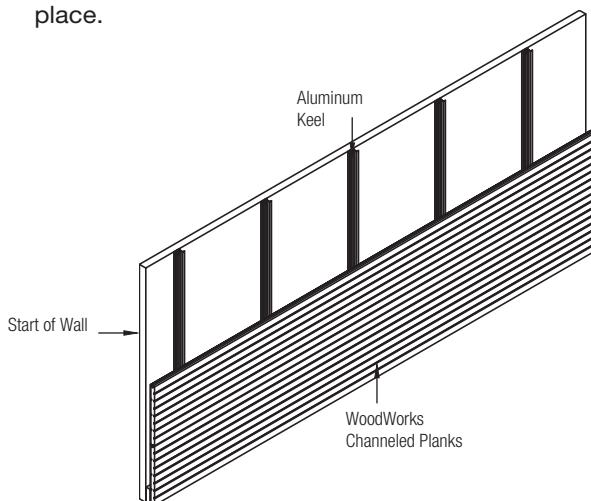
3. WALL INSTALLATION

3.1 HORIZONTAL WALL PANEL INSTALLATION

Install Aluminium extruded keel (INDALKEEL) in vertical direction, securing them to the wall with appropriate fasteners. If wall is not straight or plumb, you can use wooden battens above the wall or pad the location of keel adequately to ensure that the keel is in plumb and in absolute level. The distance between any two keels should not exceed 600mm. The keel should be placed at a distance of 150mm from ends of the wall and wherever the panel ends, the keel should not be away from the border by more than 150mm.

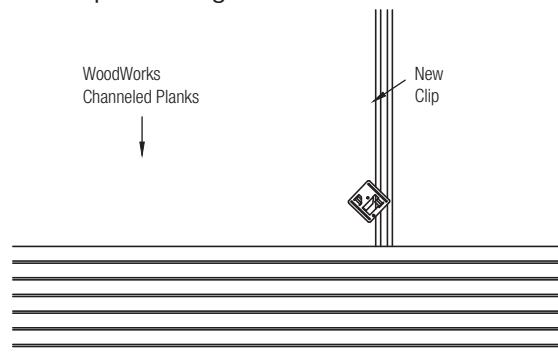


There must be atleast 5 nos of Aluminium keel present to hold the plank of length 2400mm. A typical layout is shown below. A wooden batten needs to be fixed at the bottom end of the wall near the floor level in horizontal direction. The same is required for holding the bottom panel at its place.



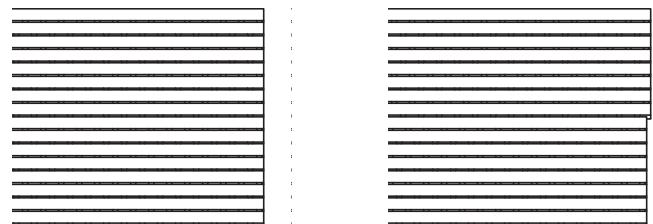
Place the Woodworks channelled panel with the tongue side facing the bottom (at the floor level). Ensure that the bottom panel is perfectly horizontal taking into account the variation of the floor level. Secure the panel to the wooden batten with the help of headless nail. Wall skirting (from

other supplier) needs to be used at the bottom end to hide the tongue part of the panel (alternatively, the tongue end can be trimmed and the panel can be flushed to the floor). After placing the bottom panel, swivel and slide the Inside panel clips (INDWWCHCLP) onto the keel in the downward direction to maximum possible extent to ensure a positive locking of the panel in the desired position. If required, secure the clips to the keel using 4mm machine screw. NOTE: The inside clips are present in the supplied box of channelled planks. Ensure that the screw head is flush with the surface of the clip to avoid interference with the next channelled plank being installed.



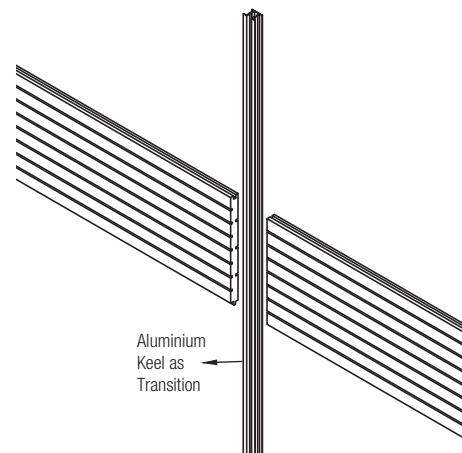
Continue installing subsequent panels by inserting the tongue end of the subsequent panel into the groove of the previous panel and use inside clip to secure it. Proceed installing all the panels till you reach the top of the installation. You may need to cut or trim the last panel to fit as per the layout.

To preserve the linear visual in the front of the panels, the holes in the back of the panels must line up from top to bottom, panel to panel. You must make sure the first row of holes at the end of the panel you are installing lines up with the holes in the panel under it.



Once you reach the top of the installation, you may have to use the inside clips to secure the panel to the aluminium keel using 4mm machine screw.

When installing the panels adjacent to each other, it is advisable to maintain a gap of minimum 10mm between two panels or butt joint the panels using a standard industrial glue. Alternately, you can also use the Aluminium keel (INDALKEEL) as a transition profile to connect

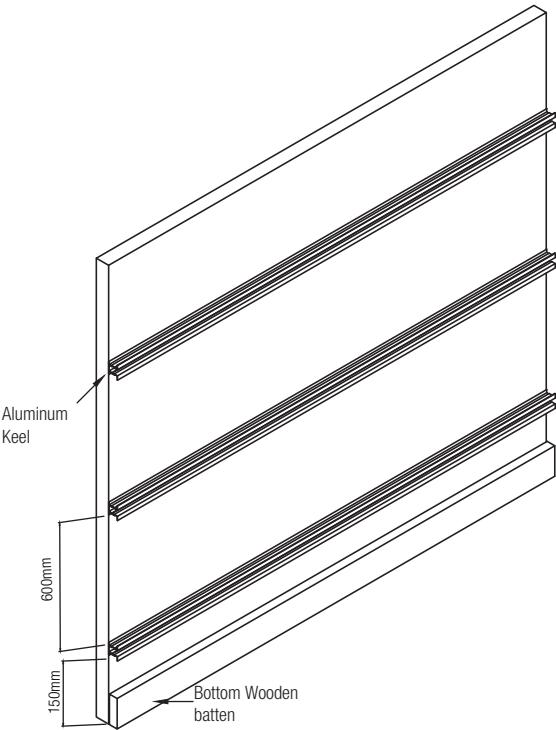


between the two adjacent panels. You can use a molding (from other supplier) to plug the groove in the transition profile. When an angular installation of 90 degree has to be done, Inside Corner profile and Outside corner profiles are to be used. For more details you can refer to the Wood-works Channeled data page on our website.

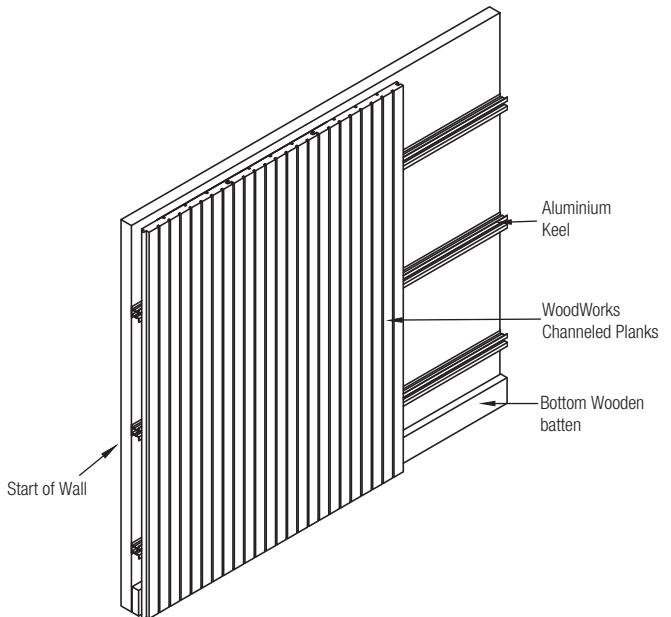
NOTE: Installation methods that do not include the inside clips are not recommended by Armstrong Ceiling Solutions and are the sole responsibility of the installation contractor.

3.2 VERTICAL WALL PANEL INSTALLATION

Install Aluminium extruded keel (INDALKEEL) in horizontal direction, securing them to the wall with appropriate fasteners. If wall is not straight or plumb, you can use wooden battens above the wall or pad the location of keel adequately to ensure that the keel is in plumb and in absolute level. The distance between any two keels should not exceed 600mm. The keel should be placed at a distance of 150mm from bottom of the floor end and wherever the panel ends, the keel should not be away from the border by more than 150mm. The last aluminium keel at the top should be below the ceiling by maximum of 150mm

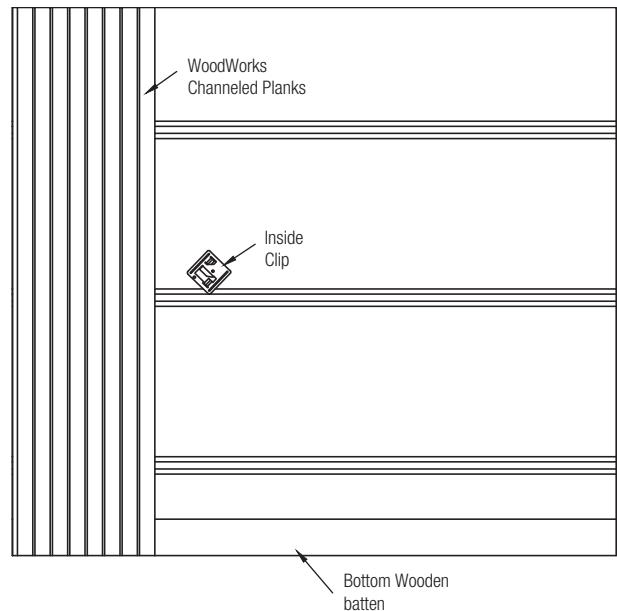


There must be atleast 5 nos of Aluminium keel present to hold the plank of length 2400mm. A typical layout is shown below. A wooden batten needs to be fixed at the bottom end of the wall near the floor level in horizontal direction. The same is required for holding the bottom panel at its place.



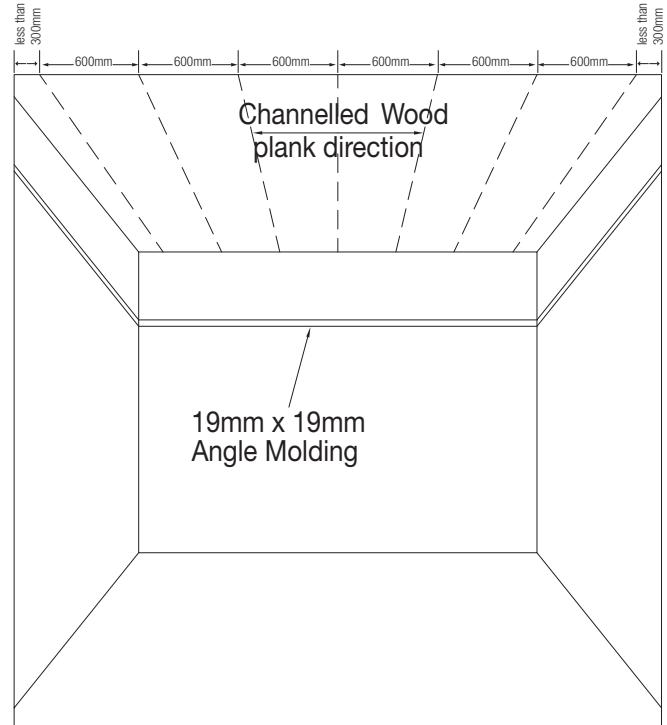
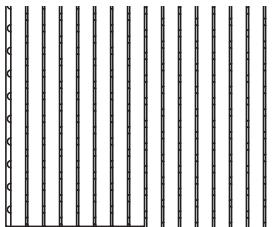
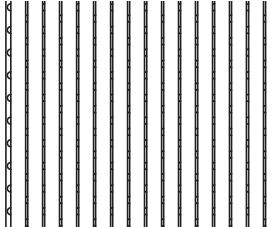
Strike a plumb line on the wall to guide the placement of the first channeled panel. Line up the groove detail of the first panel with the plumb line. Place the Woodworks channeled panel with the tongue side facing left. Ensure that the bottom panel is perfectly horizontal taking into account the variation of the floor level. The tongue end of the first panel can be trimmed to make it flush to the wall. Secure the panel to the wooden batten with the help of headless nail. Wall skirting (from other supplier) can be used at the bottom end. After placing the first panel, swivel and slide the Inside panel clips (INDWWCHCLP) onto the keel in the leftward direction to maximum possible extent to ensure a positive locking of the panel in the desired position. If required, secure the clips to the keel using 4mm machine screw.

NOTE: The inside clips are present in the suplied box of channeled planks. Ensure that the screw head is flush with the surface of the clip to avoid interference with the next channeled plank being installed.



Continue installing subsequent panels by inserting the tongue end of the subsequent panel into the groove of the previous panel and use inside clip to secure it. Proceed installing all the panels till you reach the end of the wall. You may need to cut or trim the last panel to fit as per the layout.

If the wall is higher than the plank length you must butt the short ends of the panels after you cut them to the desired length. It is desirable to butt factory ends and not cut ends. To preserve the linear visual in the front of the panels, the holes in the back of the panels must line up from top to bottom, panel to panel. You must make sure the first row of holes at the end of the panel you are installing lines up with the holes in the panel under it.



Once you reach the end of the wall you may have to secure the panel to the wall with the help of headless nails. When an angular installation of 90 degree has to be done, Inside Corner profile and Outside corner profiles are to be used. For more details you can refer to the Woodworks Channelled data page on our website.

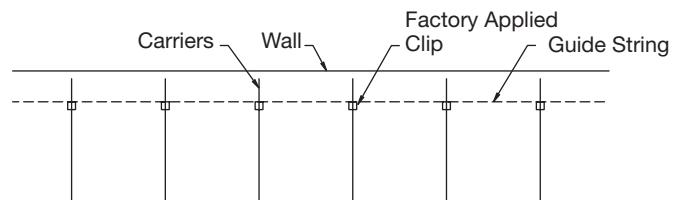
NOTE: Installation methods that do not include the inside clips are not recommended by Armstrong Ceiling Solutions and are the sole responsibility of the installation contractor.

4. CEILING INSTALLATION

Ceiling installations are limited to runs (the direction of the run of the panels) of 2.4 metres or less. If the area is longer than that, you must interrupt the run with a break in the ceiling.

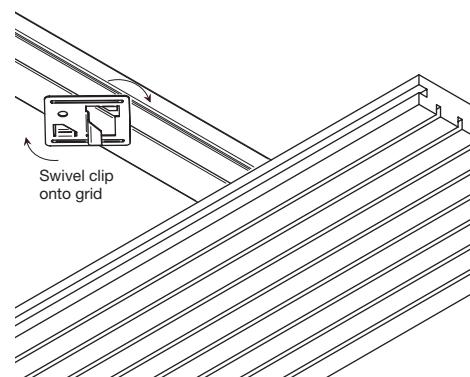
Install wall moulding on a level line around the room at the height of the finished ceiling. Install the main beams (Prelude 43) at a distance of 600mm between each of them in a direction perpendicular to the direction of the woodworks channelled panels being installed. The first main runner should not be at a distance greater than 300mm from the side wall. Bend the hanger wires so the bottom of the mains are 15mm above the face of the moulding. Connect the mains with 600mm cross tees at every 1200mm.

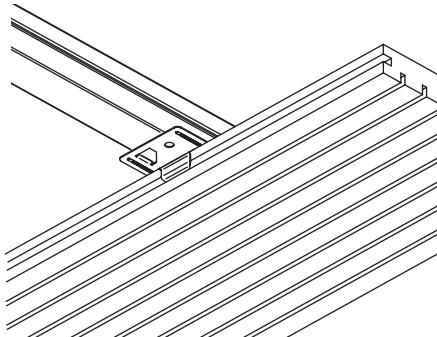
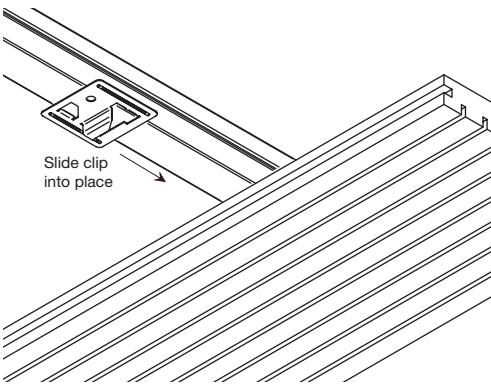
Stretch a string from one side wall to the other to align the first row of the panels. The string should be no more than 120mm from the end wall.



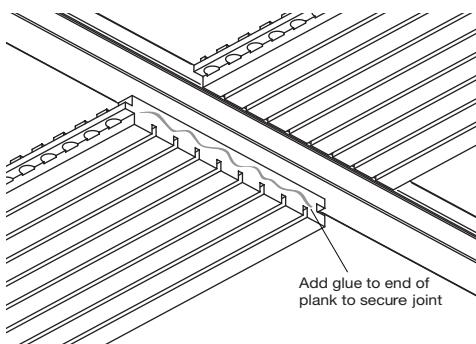
Measure from the end of the wall to the string several times and mark the first panel so you can cut it to width, after the width is adjusted, make another cut it required so the panels end under a main beam. Lay the panels such that the groove edge of the panel is directly above the guide string.

Twist an inside panel clip (INDWWCHCLP) onto the flange of the main beam and slide the clip into the groove edge of the panel. Perform the same action on every main beam resulting in proper securing of the panel onto the grid.

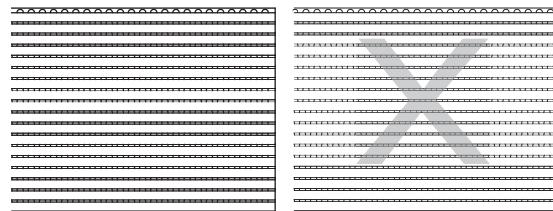




Measure and cut the second panel to the width if required. Butt the end of the second panel against the end of the first. Install an inside clip at the butt joint (ensure that the panel ends on the main beam). You can apply industrial based glue to join two butt ends together. It is desirable to butt factory ends and not cut ends. Finish the first row by cutting the last panel approx. 10mm from the other side of the wall.



After the first row of panels has been installed, start the second row with full width panels. You may have to trim the end of the panels so the holes on the back of the panel line up with the holes in the first row.



When making the alignment cut in the first panel in each row, try to end the panel under the main beam. Once the first panel ends under a main beam, the rest of the panels in that row will also. If the panels do not end under a main beam, place an inside clip at the butt joint to help in the alignment.

Continue in this manner to the other end of the room. Cut the last row of panels 10mm short of the end wall

5. CUTTING

When you cut a plank to length, you can use normal woodworking tools, (e.g., circular saws, saber saws, hole saws, etc.). Penetrations for sprinklers (or other fixtures) can be accomplished by simple interruption of the wood planks at those locations or by using normal woodworking tools to cut access in the planks.

CAUTION: WOOD DUST. Sawing, sanding and machining wood products can produce dust. Airborne wood dust can cause respiratory, eye and skin irritation.

Precautionary measures: If power tools are used, they should be equipped with a dust collector. If high dust levels are encountered, use an appropriately designed dust mask. Avoid dust contact with eyes and skin.

First Aid measure in case of irritation: In case of irritation, flush eyes or skin with water for at least 15 minutes.

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Solutions

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