

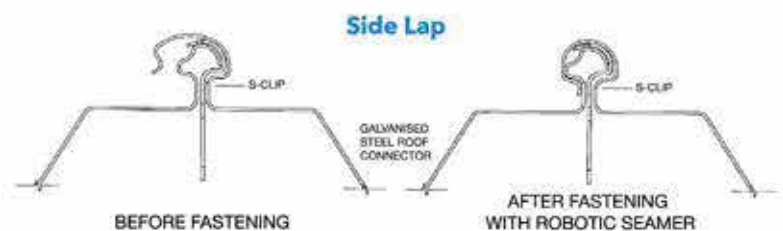
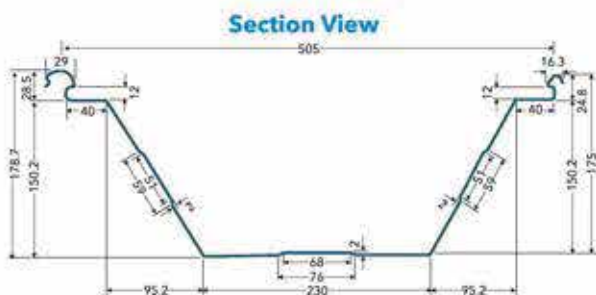
# TH R505 STANDING SEAM



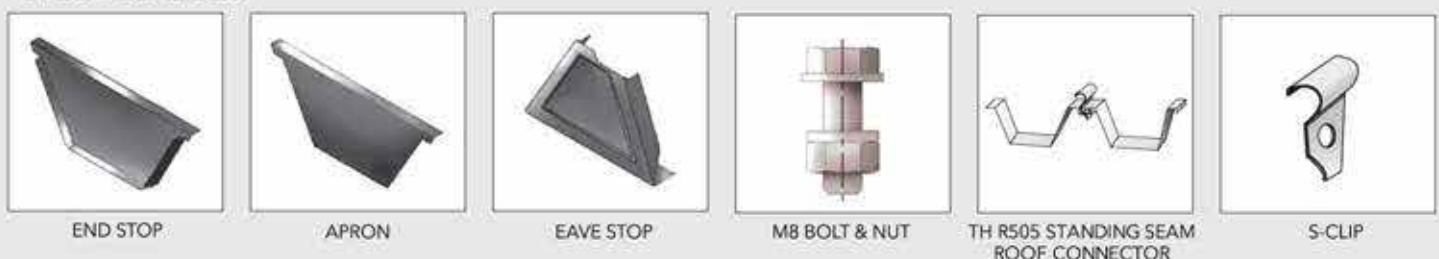
**TH R505 Standing Seam** is the State-Of-The art Trapezoidal Roof concealed fixing system. The extremely deep corrugation coupled with its locked and seamed sidelap totally eliminates rainwater entry and any fear of wind uplift.

## Advantages

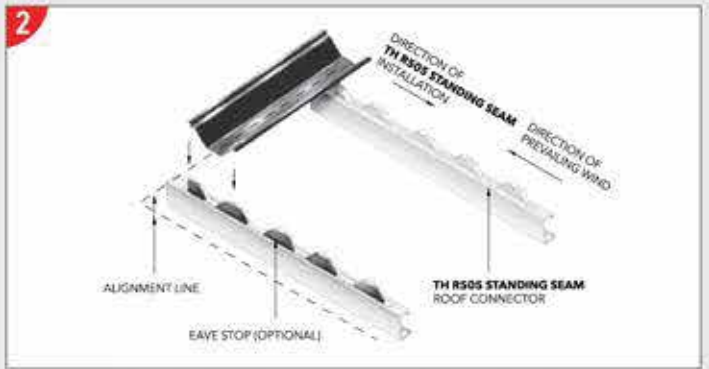
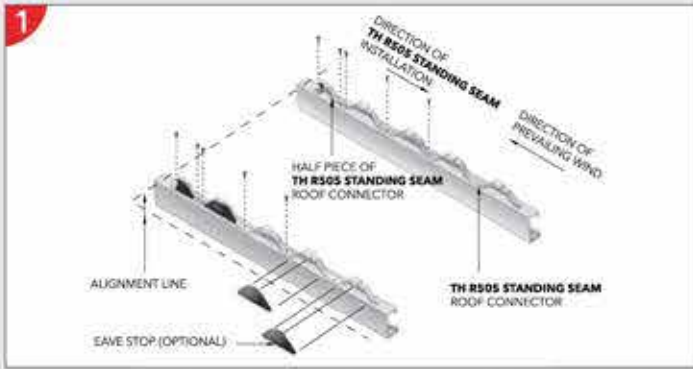
- Non-piercing of the roof ensures 100% watertightness.
- A real roofing beauty. Its concealed fixing system results in a roof with clean, straight and rigid lines, uninterrupted by protruding screws or bolts.
- The unique lock and seam fastening process by a robotic seamer holds the roof sheets tightly against uplift or suction forces of strong winds.
- The Profile's strikingly bold and deep corrugation makes it an extremely structurally strong roof requiring fewer purlins, an almost flat roof pitch with a small fascia, all of which contribute to substantial saving in building costs.



## Accessories

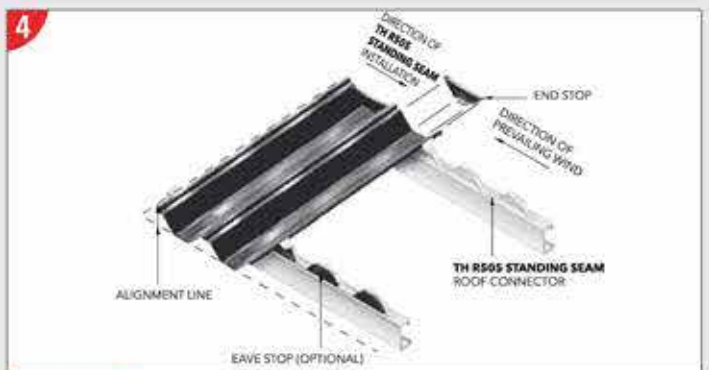
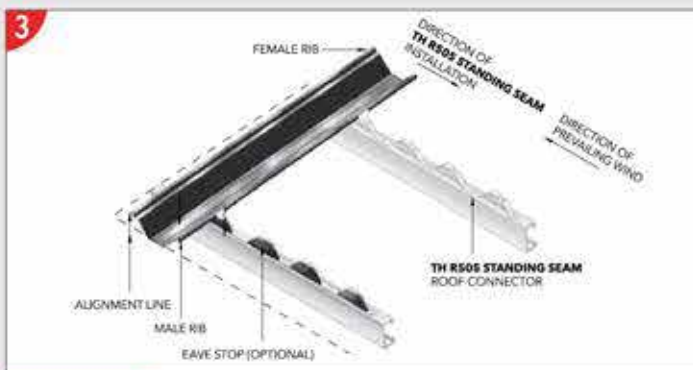


# Installation Procedure



**STEP 1** Ensure that the installation direction of the TH R505 roof sheets opposes that of prevailing winds. Align the first row of cut-off (1/1) half-piece TH R505 Stand Seam roof connectors on all purlins. A wire is used as an alignment line that the Roof Connectors are straight longitudinally. The roof connectors are then installed onto the purlins either by welding or fastening, using self-drilling self-tapping Hexagon Head DX 520 H0 screws. Optional eave stops are used to close the roof connectors on the eave side of the roof as bird proofing and to prevent water from entering the building.

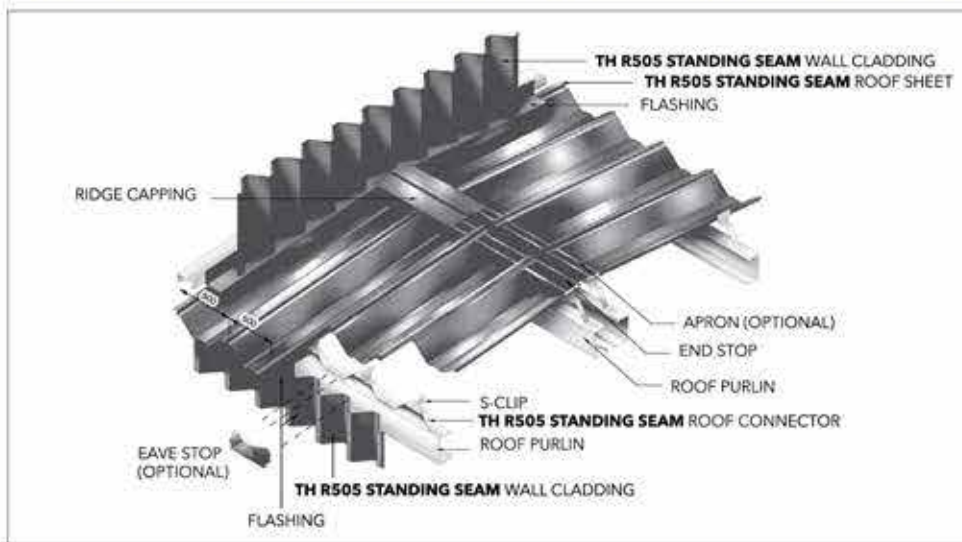
**STEP 2** TH R505 Standing Seam roof sheet is then placed on the roof connectors. S-clips are then positioned over the male rib and fastened into position with M8 nuts and bolts.



**STEP 3** The next roof sheet is placed on the roof connectors with the female rib if the sheet over the male rib of the previous sheet. A wire is used as an alignment line to ensure that the roof sheets are straight laterally. The side lap is temporarily locked in position at intervals by a hand seamer. As in Step 2, S-clips are then positioned over the male ribs and fastened into position with M8 nuts and bolts.

**STEP 4** Step 3 is repeated until the roof covered. Following this, all side laps are locked and seamed by an automatic robotic seamer. End stops pre-lined with sealants are used to close the ends of the roof sheets on the ridge side to prevent water from entering the building. Finish roof installation with necessary flashing and capping.

## Typical Assembly Drawing of TH R505 Standing Seam Profile for Roof & Wall Cladding



### ROOF PITCH

Owing to its unique deep corrugation, TH R505 Standing Seam profile can be installed on a roof pitch as low as 1°, making it virtually flat. However, it is recommended that a roof pitch of 2° be considered during designing to avoid silt accumulation due to reduced water velocity and possible ponding as a result of uneven purlins.

### END LAPS

Should end laps be inevitable have a minimum of 250 mm end for a 5° roof pitch and below, and a minimum 200mm end lap for a roof pitch exceeding 5°. Ensure watertightness by applying a good sealant to the end lap.

### END STOP

The high ribs and trapezoidal shape of the TH R505 Standing Seam profile require usage of end stops on the ridge side to prevent rainwater being driven into the building. The end stops are pre-lined with sealants before fastened to the sheets by snapping tool.

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