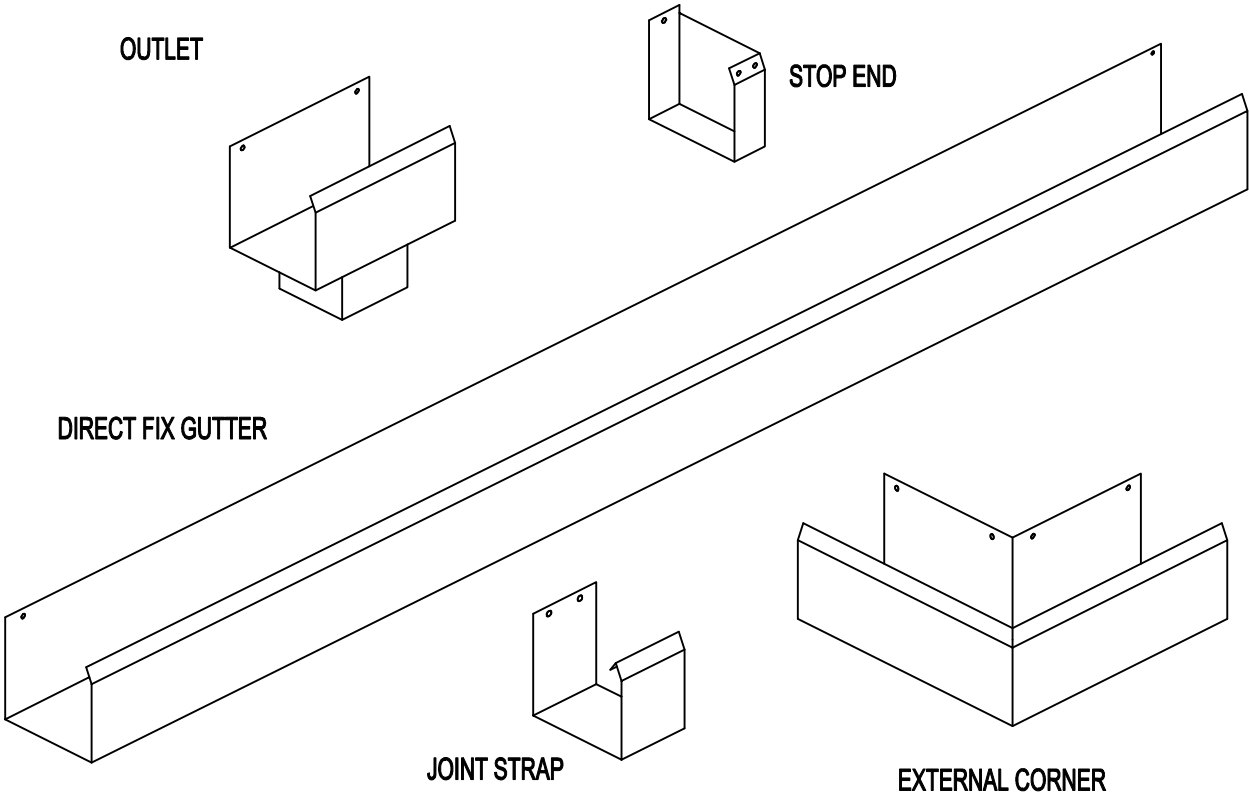


GUTTER SYSTEM

ALUMINIUM DIRECT FIX

FIXING INSTRUCTIONS

THESE FIXING INSTRUCTIONS SHOULD ONLY BE USED WITH THE FOLLOWING GUTTER SYSTEMS. **DOMESTIC, DERWENT, AVON, DOVE, WELLAND, TRENT, NENE1, NENE2, HR150, SYSTEM 75, SYSTEM120.** IF YOU BELIEVE YOU HAVE BEEN SUPPLIED WITH THE INCORRECT INSTRUCTIONS PLEASE CONTACT DALES TECHNICAL DEPARTMENT ON TEL:0115 9301521



THE GUTTER SYSTEM IS MADE UP OF THE PARTS ILLUSTRATED ABOVE. CAREFULLY IDENTIFY EACH PART SO THAT YOU ARE FAMILIAR WITH ITS PLACE IN THE SYSTEM.

TOOLS/AIDS REQUIRED

- HAMMER
STRINGLINE
PAIR OF MOLEGRIPS
TAPE MEASURE
SPIRIT LEVEL
APPROPRIATE PPE
- DRILL DRIVER- SCREW DRIVER
JIGSAW
DRILL & 6mm BIT
HACKSAW
POP RIVET GUN

Whilst installing Dales systems consideration should be given by the installer to the health and safety of themselves and others at all times.
**See further H&S notes at base of page

IMPORTANT
ABRASIVE GRINDERS MUST NOT BE USED ON OR IN THE VICINITY OF THESE PRODUCTS AS THEIR USE WILL DESTROY THE LOW MAINTENANCE PROPERTIES AND INTEGRITY OF THE SYSTEM

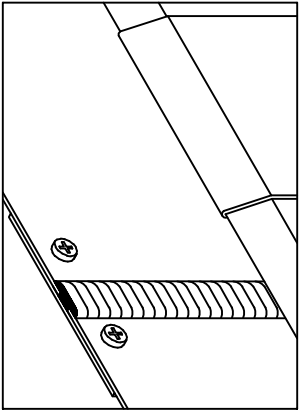


** Consideration should be given to elements such as, but not limited to; – Care when carrying and transporting items on site. – Consider the risk of item weights, effects of wind factors and sharp edges of items. – Be aware of your surroundings at all times. – Consider the risks posed by, and to, partial installs that may need to be temporarily blocked off and/or supported and/or guarded until the full install can be completed, to prevent compromising of the system due to weather or other factors. – Ensure exposed sharp edges are cordoned off during installation and/or while unattended. – Ensure the correct equipment is used to install the products in a safe controlled manner. – Ensure the appropriate PPE is utilised. – We recommend that tools are always tethered. – Controls to mitigate any risk of falling are put in place. – Mitigate debris caused for install, e.g. swarf getting into orifices (nose, eyes, mouth etc) – Full risk assessments should be carried out by a competent person covering all activities before any work is carried out. – None of Dales products are designed to be walked on. – Please consult Dales O&M manuals both during and after installation, copy available upon request. – For more information please do not hesitate to contact our office. –

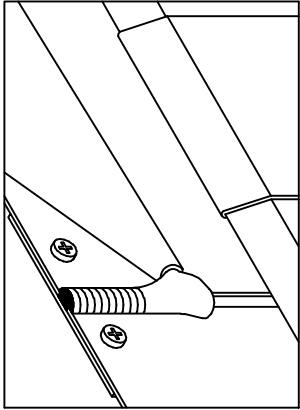


INSTRUCTIONS FOR SEALING DALES STANDARD GUTTER SYSTEMS

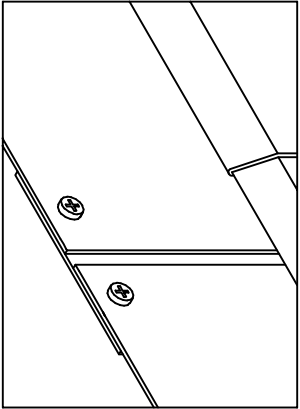
IMPORTANT: DO NOT BED JOINTS INTO SEALANT BUT ASSEMBLE DRY AND APPLY SEALANT AFTERWARDS OTHERWISE LEAKING CAN OCCUR



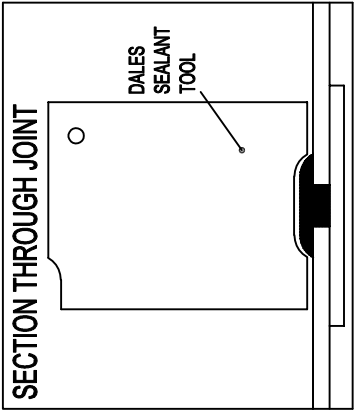
ENSURE SEALANT OVRLAPS EACH EDGE OF THE GUTTERUSING THE TOOL PROVIDED



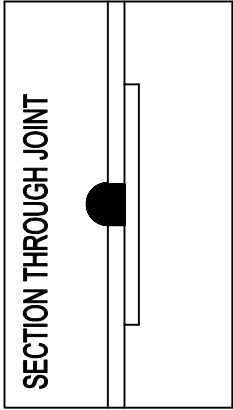
EXTRUDE SEALANT INTO GAP



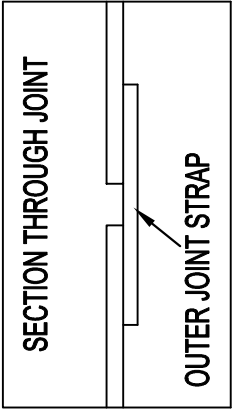
ASSEMBLE DRY JOINT



SECTION THROUGH JOINT



SECTION THROUGH JOINT



SECTION THROUGH JOINT

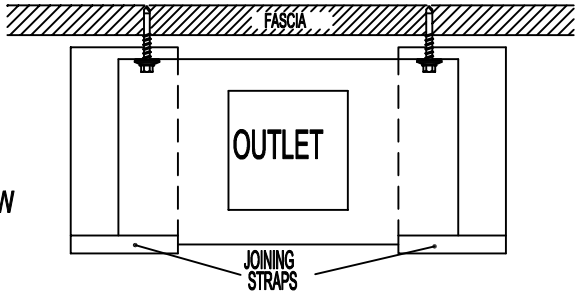
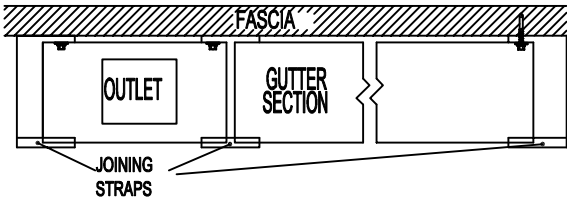
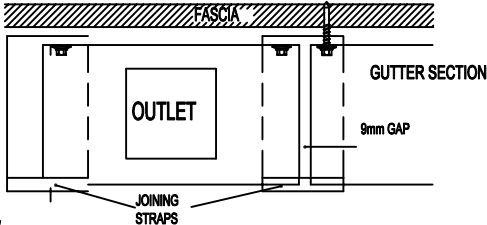
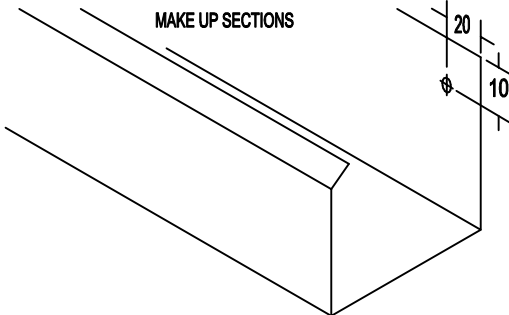
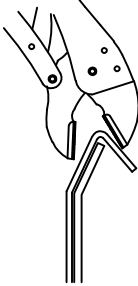
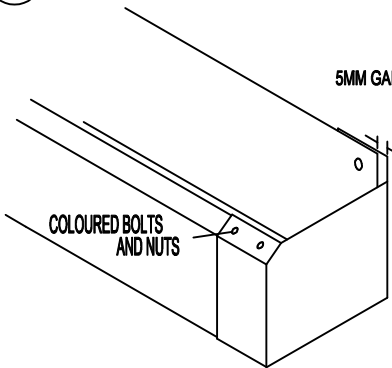
OUTER JOINT STRAP

1. ASSEMBLE JOINT 'DRY' AND ENSURE THAT IT IS CLEAN AND FREE FROM DUST, GREASE AND LOOSE MATERIAL..
2. EXTRUDE THE SEALANT INTO THE JOINT. TAKE THE SEALANT COMPLETELY UP BOTH FRONT FACES. IF YOU DO NOT THE GUTTER MAY LEAK.
3. TOOL THE SEALANT IMMEDIATELY TO ENSURE A COMFORTABLE OVERLAP OF THE SEALANT OVER BOTH SIDES OF THE JOINT.
4. MISAPPLIED SEALANT SHOULD BE REMOVED IMMEDIATELY WITH A PAPER TOWEL OR TISSUE.

FULL C.O.S.H INFORMATION ON THIS PRODUCT AVAILABLE FROM THE ABOVE ADDRESS

THIS SEALANT SHOULD BE GREY. IF NOT PLEASE CONTACT DALES FOR A REPLACEMENT. THIS SEALANT IS ARBOSIL 1080 FROM ADSHEAD RATCLIFFE. NO OTHER SEALANT WILL SEAL DALES GUTTERS SATISFACTORILY

FIXING INSTRUCTIONS:THE INSTRUCTIONS ARE SHOWN WORKING FROM THE LEFT TO RIGHT ALONG THE GUTTER LENGTH. AS THE OUTLET SECTION IS NORMAL IT MAY BE NECESSARY FOR YOU TO WORK THE OTHER WAY IF YOUR OUTLET IS TO THE RIGHT OF THE BUILDING

1 PLAN VIEW  DETERMINE THE POSITION OF THE OUTLET ON THE FASCIA THEN FIX IT THROUGH THE OUTLET AND JOINT STRAP AS SHOWN.	2  FIX A LINE ON TO THE FASCIA EITHER HORIZONTALLY OR TO GIVE A RISE OF 10MM IN 6 METRES ACCORDING TO INDIVIDUAL REQUIREMENTS.	8  THERE ARE A FURTHER THREE INTERMEDIATE HOLES IN EACH LENGTH OF GUTTER THAT NOW REQUIRE FIXING. IT IS IMPORTANT HAT THE CORECT FIXINGS ARE USED AS THE CENTRAL HOLE IS A SELF TAPPING HOLE TO LIMIT THERMAL MOVEMENT OF THE GUTTER; WHILST THE OTHER HOLES AR ECLEARANCE HOLES TO ALLOW THERMAL MOVEMENT. THER SEALING WASHERS AR REQUIRED WHICH EACH SCREW TO PREVENT WATER LEAKING THROUGH THE FIXING HOLES.
3  PUSH THE END OF THE FIRST GUTTER SECTION INTO THE JOINING STRAP WHICH IS ON THE OUTLET UNTIL THERE IS A GAP OF 9mm BETWEEN THE GUTTER AND THE OUTLET SECTION.	4  PLACE A JOINING STRAP ON THE OTHER END OF THE GUTTER LENGTH.	9  APPLY SEALANT TOT EACH 9mm JOINT GAP CAREFULLY FOLLOWING THE SEALANT INSTRUCTIONS. DO NOT APPLY SEALANT IN WET OR DAMP CONDITIONS.
5 PLAN VIEW  ADJUST GUTTER HEIGHT TO STRING LINE AT THE FREE END THEN FIX IT THROUGH GUTTER JOINING STRAPS AS SHOWN.	6 PLAN VIEW  RETURN TO THE OUTLET END AND AFTER ENSURING THAT THE LINE OF THE JOIING STRAP IS CORRECT FIX IT THROUGH THE OUTLET AND JOINING STRAP AS SHOWN.	10  WHEN CUTTING GUTTERS TO NON-STANDARD LENGTHS ALWAYS ENSURE THAT A 9mm GAP IS PROVIDED BETWEEN THE COMPONENT AND PIECES AND DRILL A 6MM HOLE AT THE END OF THE BACK FACE AS SHOWN. IN MARINE ENVIRONMENTS A DOUBLE THICKNESS OF TOUCH OF PAINT NEEDS TO BE APPLIED TO THE CUT EDGES OF THE GUTTER.
7  CLINCH THE TAB ON THE STRAP RIGIDLY TO SECURE THE JOINT.  OR FIX THE TAB ON THE STRAP RIGIDLY TO SECURE THE JOINT. 		11  STOP ENDS ARE PROVIDED WITH ONE HOLE IN THE BACK FACE AND TWO HOLES IN THE FRONT FACE. THE STOP END WHICH IS DESIGNED TO FIT INTO THE OUTSIDE OF THE GUTTER SHOULD BE PLACED ON THE END OF THE GUTTER SECTION TO GIVE A 5MM GAP BETWEEN THE GUTTER AND THE STOP END FACE AS A PROVISION FOR SEALANT. FIX THE STOP END TO THE GUTTER USING THE HOLE IN THE REAR FACE. DRILL THE GUTTER THROUGH THE FRONT TWO HOLES IN THE STOP END AND FIX USING COLOURED NUTS AND BOLTS THEN APPLY SEALANT.