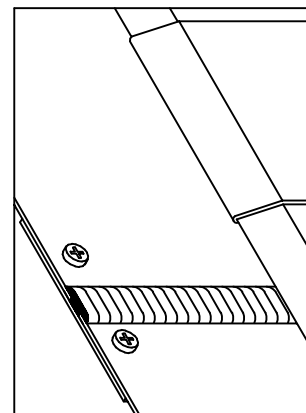
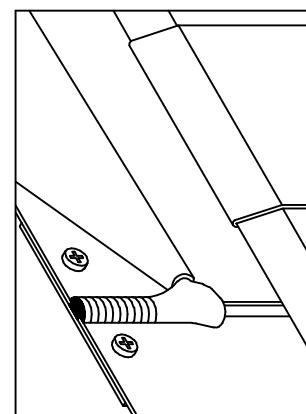


INSTRUCTIONS FOR SEALING DALES STANDARD GUTTER SYSTEMS

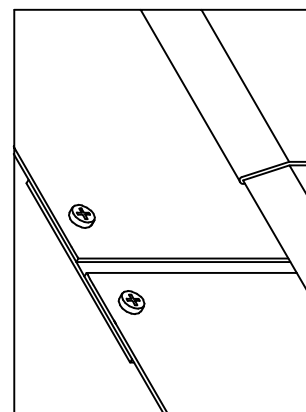
IMPORTANT : DO NOT 'BED' JOINTS INTO SEALANT BUT ASSEMBLE DRY AND APPLY SEALANT AFTERWARDS OTHERWISE LEAKING CAN OCCUR



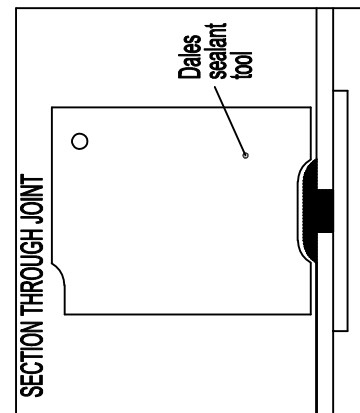
ENSURE SEALANT OVERLAPS EACH EDGE OF THE GUTTER USING THE TOOL PROVIDED



EXTRUDE SEALANT INTO GAP

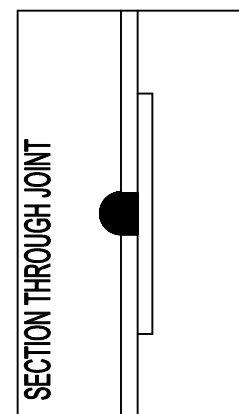


ASSEMBLE DRY JOINT



SECTION THROUGH JOINT

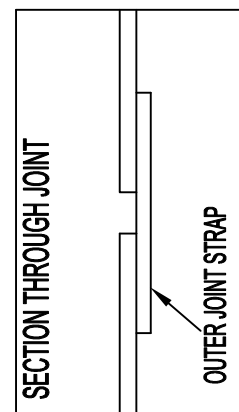
THIS SEALANT SHOULD BE GREY, IF NOT PLEASE CONTACT DALES FOR A REPLACEMENT. THIS SEALANT IS ARBOSIL 1080 FROM ADSHEAD RATCLIFFE. NO OTHER SEALANT WILL SEAL DALES GUTTERS SATISFACTORILY.



SECTION THROUGH JOINT

OUTER JOINT STRAP

1. ASSEMBLE JOINT 'DRY' AND ENSURE IT IS CLEAN AND FREE FROM DUST, GREASE AND LOOSE MATERIAL.
2. EXTRUDE THE SEALANT INTO THE JOINT. TAKE THE SEALANT COMPLETELY UP BOTH THE FRONT FACES. IF YOU DO NOT DO THIS 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.H. INFORMATION ON THIS PRODUCT IS AVAILABLE FROM THE ABOVE ADDRESS.



SECTION THROUGH JOINT



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- www.dales-eaves.co.uk -
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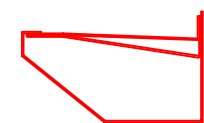
IF YOU HAVE ANY PROBLEMS WITH THIS SYSTEM, PLEASE DO NOT HESITATE TO CALL DALES ON TEL 0115 9301521. THESE FIXING INSTRUCTIONS ARE ADVISORY ONLY AND DALES FABRICATIONS LTD CANNOT BE HELD RESPONSIBLE FOR ANY CLAIMS ARISING FROM THEIR USE.



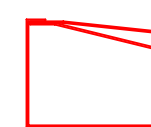
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- www.dales-eaves.co.uk -
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GUTTER SYSTEM ALUMINIUM TOP FIX FIXING INSTRUCTIONS

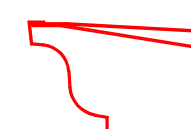
THESE FIXING INSTRUCTIONS SHOULD ONLY BE USED WITH THE FOLLOWING GUTTER SYSTEMS.
IF YOU BELIEVE YOU HAVE BEEN SUPPLIED WITH THE INCORRECT INSTRUCTIONS PLEASE CONTACT DALES TECHNICAL DEPT. ON TEL: 0115 9301521



THE TORENT RANGE OF GUTTERS



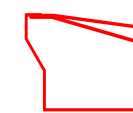
THE DELTA RANGE OF BOX GUTTERS



SEVERN GUTTER

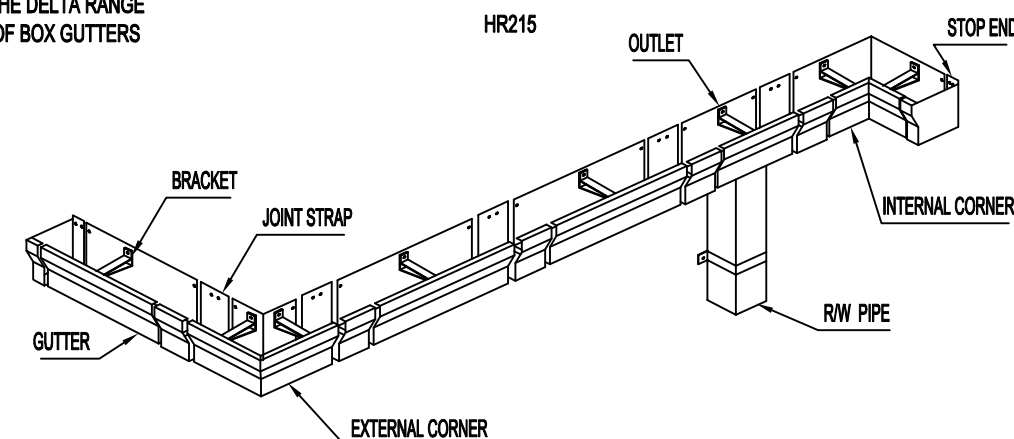


HR215



NEW CLASSIC

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



TOOLS/AIDS REQUIRED

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

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. -



PLEASE NOTE THAT ONLY THE FIXING SHOWN ON DALES JOB SPECIFIC DRAWINGS MUST BE USED UNLESS AGREEMENT IN WRITING IS SOURCED FROM DALES FABRICATIONS LTD AND ALL FIXINGS MUST BE INSTALLED USING SUITABLE EQUIPMENT AND TORQUE SETTINGS. WE RECOMMEND THAT DRILL DRIVERS OR SCREWDRIVERS ARE USED AND NOT IMPACT DRIVERS AS THESE ARE NOT GENERALLY RECOMMENDED FOR USE BY FIXING MANUFACTURERS. FIXING DATASHEETS ARE AVAILABLE ON REQUEST.
THE INSTALLER MUST ENSURE THAT CARE IS GIVEN SO THAT THE INTEGRITY OF THE FIXING AND THE FIXING GROUNDS ARE MAINTAINED, AND THE FUNCTION OF THE FIXING IS NOT ADVERSELY AFFECTED. PLEASE SEE RELEVANT PROVISIONS WITHIN DALES STANDARD TERMS AND CONDITIONS.

Fixing Instructions: The instructions are shown working from 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 the joint strap as shown (see main illustration). Fix the bracket in the centre of the outlet in accordance with the main illustration.

2.

FRONT ELEVATION

Fix a line on to the fascia either horizontally or to give a rise of 10mm in 6 metres according to individual requirements.

3.

Place a joint strap onto the right hand end of the first length.

4.

LEAVE 9mm GAP HERE FOR SEALANT

Push the left hand end of the gutter section into the joint strap that is on the outlet until there is a gap of 9mm between the end of the gutter and the outlet section.

5.

4 No. gutter brackets @ 750mm centres (for TORENT 3: 5 No. gutter brackets @ 600mm centres,

Adjust the gutter height to the string line at the free end, then fix it through the joint strap as shown. Fix the rest of the gutter through the back face and the bracket in the position indicated above. Brackets should be fixed as shown in main illustration below. Bolt through the top face of each joint strap using the M5 x 12mm bolts to secure the joint (see main illustration). Fix all remaining gutter lengths in accordance with instructions 3, 4 and 5.

6. MAKE-UP SECTION

***NOTE:** For NEW CLASSIC this dimension needs to be 6.5mm

When cutting gutters to non-standard lengths always ensure that a 9mm gap is provided between the components. Two 6mm holes must be drilled in the make-up section as shown above to allow the gutter to be fixed to the joint strap. In marine environments a double thickness of touch up paint needs to be applied to the cut edge.

7.

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 onto 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 fix using coloured nuts and bolts then apply sealant in accordance with instructions overleaf.

9mm EXPANSION JOINT (Apply sealant in accordance with instructions overleaf)

GUTTER LENGTH

TEC SCREWS

GUTTER BRACKET

M5x12mm BOLTS

JOINT STRAP

5mm POP RIVET

GUTTER LENGTH

MAIN ILLUSTRATION: Bracket & Joint Strap Details

DO NOT 'BED' JOINTS INTO SEALANT
ALL JOINTS SHOULD BE ASSEMBLED DRY AND SEALED IN ACCORDANCE WITH THE SEALANT INSTRUCTIONS OVERLEAF