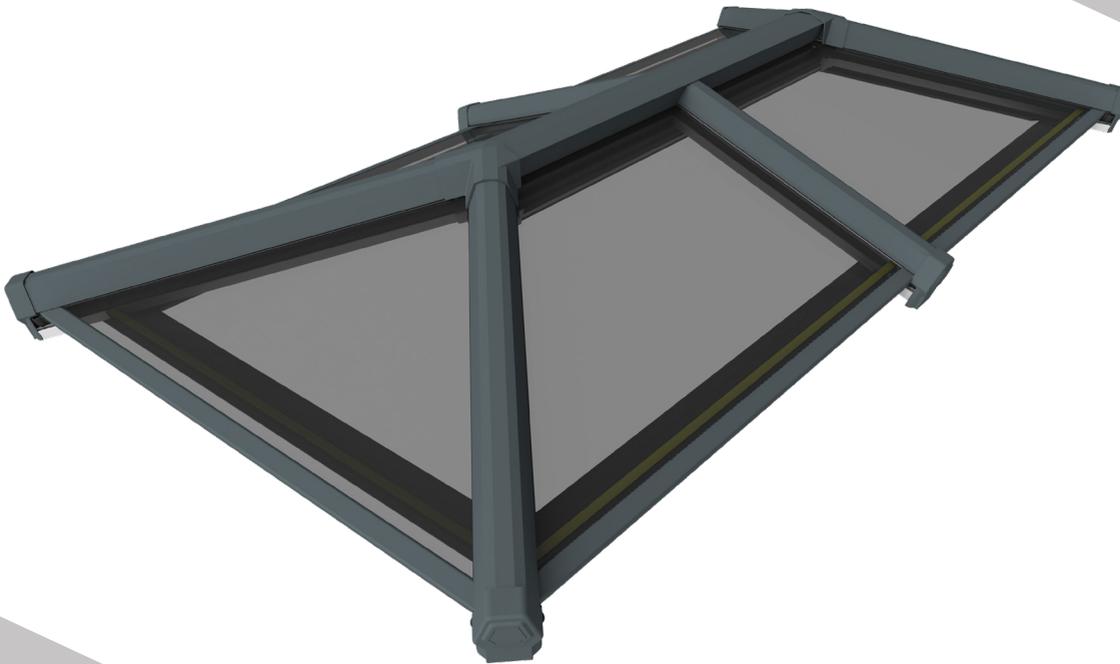




# WENDLAND

R O O F S O L U T I O N S



## Installation Guide

Wendland 20° Lantern

V4 | August 2021

## Thank you for choosing the Wendland Lantern product. This guide is designed to make fitting as straight forward as possible.

This guide is written on the basis that the surveyor has undertaken correct checks for the capability / structural performance of any existing flat roof to verify it is fit for purpose. A timber kerb and weatherproofing materials for the deck/kerb interface are not provided.

Any feedback - positive or negative - is welcome so we can make our systems even better.

**Please contact the Tech Support Team on 01200 452 318 or email [customerservice@wendland.uk.com](mailto:customerservice@wendland.uk.com)**

### General points

Care should be taken when handling components that are seen by the homeowner, as surfaces may be scratched if not handled with care. Choose a suitable area for unpacking the components and always check them before fitting. Any claims for missing or damaged parts are only accepted in line with our standard terms and conditions of sale.

### Health & safety

Site safety is paramount. The Construction (Design & Management) Regulations 2015 apply to the whole construction process, on all construction projects from concept through to completion. Compliance is required to ensure construction projects are carried out in a way that secures health and safety. The installation company shall be responsible for the safety of all of the fitting team, the customer and members of the public.

The Surveyor should have carried out a risk assessment to reduce risk on site and this should have been discussed with you prior to starting.

Please use safe working platforms and ladders that comply with BS EN 131. Always use equipment in line with manufacturers

recommendations. Personal Protective Equipment –such as goggles, mask and ear defenders – should be used when, for example, grinding out for the flashing.

Careful consideration should be given to the safe disposal of all packaging which can be readily recycled.

### Sealing

It is important to use the correct sealant when sealing the roof. Always use MS Polymer sealant such as Rotabond 2000 on self cleaning glass.

### The flat roof structure

Check the existing structure is sound and structurally fit for purpose. Check the opening is 'square' and the flat roof deck is level. A timber kerb of 150 x 70mm width should be used onto which is attached the lantern. The lantern is manufactured to suit external kerb sizes.

### Technical Support

Tel: 01200 452 318

Email: [customerservice@wendland.uk.com](mailto:customerservice@wendland.uk.com)

## TOOLS REQUIRED



8, 10, 13mm Socket Spanner



Deadblow Hammer or White Rubber Mallet



No. 2 Pozidrive Bit



Drill/Screwdriver



Gasket Shears/Snips



4.5mm Drill Bit  
10mm Drill Bit



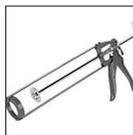
Spirit Level  
(magnetic useful for internals)



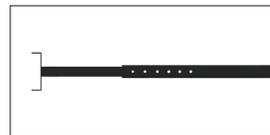
Tape Measure



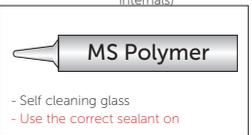
Box cutter or Stanley knife



Sealant Gun



Support Prop



MS Polymer  
- Self cleaning glass  
- Use the correct sealant on

**THERE ARE SOME MATERIALS YOU NEED TO SUPPLY: EG. PLASTERBOARD, 150 X 70MM TIMBER KERB, FIXINGS TO HOLD ALUMINIUM EAVES BEAM TO TIMBER KERB**

# GENERAL INSTALLATION

## PAINTED ALUMINIUM PRODUCTS - PLEASE NOTE

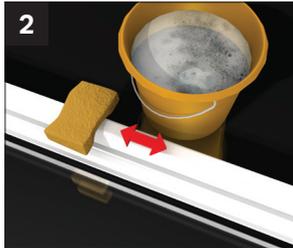
All paints will 'chalk' to some extent and there will be a reduction in gloss level over time.  
(See Cleaning and Maintenance guidelines see p7)

## QUALITY EXPECTATIONS ON INSTALLATION.

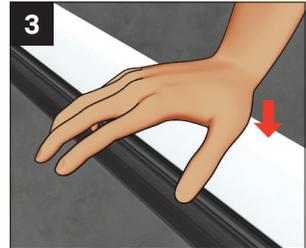
**Appearance:** This is assessed based on the selection of the 'significant' (primary) surface. From a distance of 3m, stand at an oblique angle of 60 degree and then defects such as blisters, runs, pin holes etc should NOT be seen. **Colour and gloss:** Viewed from 5m, the coating must be of even colour and gloss with good coverage.



If storing in warehouse racking or on rails/roof racks, take care to support the products and do not over tension straps and ropes. When opening sealed packs, use a special box knife opener.

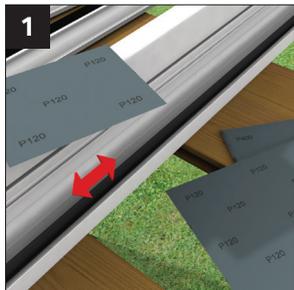


Grease marks, dirt and mastic spillage may be removed using soapy water.

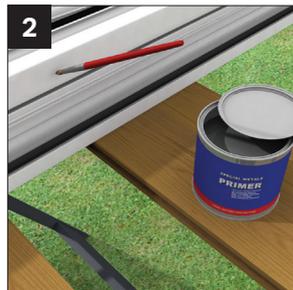


Take care when fitting aluminium products to not use excessive force.

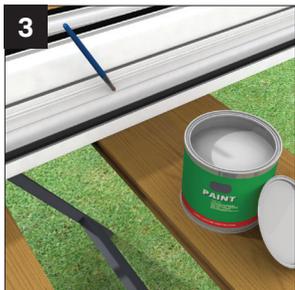
# CLEANING AND MAINTENANCE - ALUMINIUM EXTERNAL



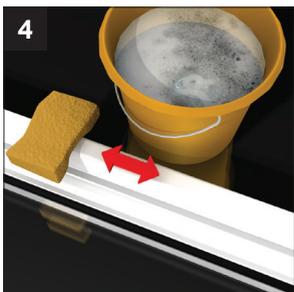
If surface damage is encountered, use 120-360 grit paper to prepare the surface. Wipe clean with white spirit.



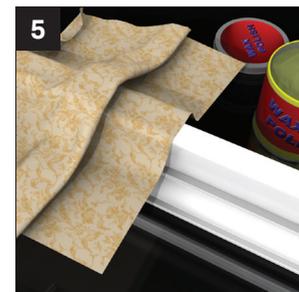
Ensure the surface is dry – apply a thin primer coat using a fine brush.



Finally, apply an air drying top coat with a fine brush.



General cleaning can be undertaken by a wash with warm soapy water.

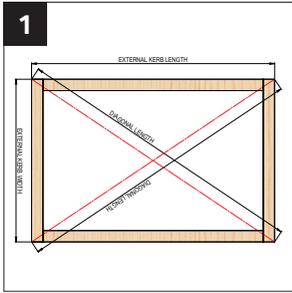


For added protection, a wax polish can be applied up to twice per year – follow the polish manufacturer's instructions carefully.

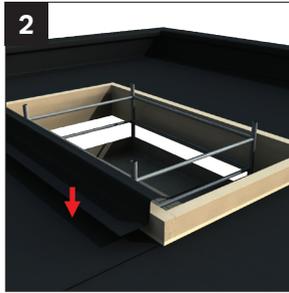
PLEASE PASS THIS GUIDE TO THE HOMEOWNER

If in doubt at any stage of the installation, please contact the Tech Support Team on 01200 452 318 or email [customerservice@wendland.uk.com](mailto:customerservice@wendland.uk.com)

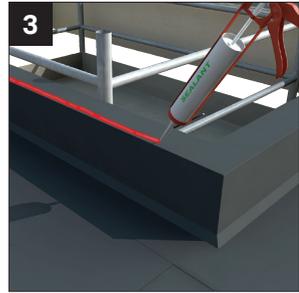
# GENERAL INSTALLATION



Construct the up-stand to the flat roof with minimum of 150mm tall kerb (minimum of 70mm wide). Check that kerb is square by measuring diagonals. Apply membrane as per manufacturers guidelines. The customer must ensure that the kerb and surrounding roof can adequately resist the horizontal spread of the lantern.



Wrap the membrane up the kerb and lap over the top of the kerb ensuring that a watertight finish is achieved.

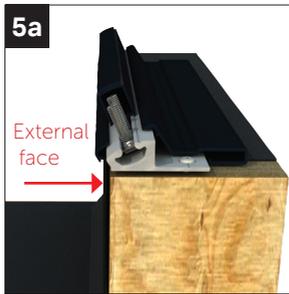


Apply a generous, continuous bead of silicone to the outer perimeter of the top surface of the kerb.

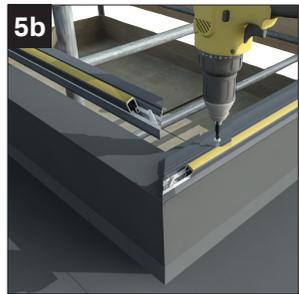


Drill 100mm from each end and drill a minimum of 4 holes at a Max of 400mm centres using appropriate clearance drill. Now take the eaves beam/rail and ensure correct number of bolts are slotted into eaves beam/rail.

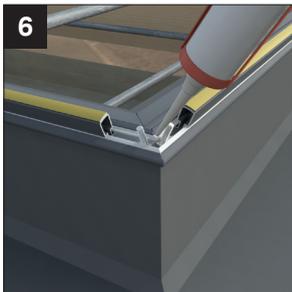
Minimum of at least 4 screws per eaves beam/rail length.



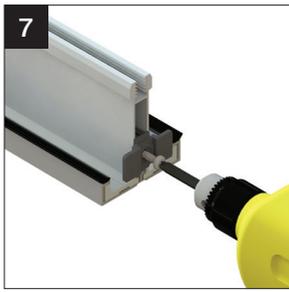
Cross section of timber kerb with eaves beam/rail in position - note flush with outer edge of kerb.



Check the required number of bolts are in the eaves beam/rail. Seal cut ends of eaves. Line up eaves along outer edge of kerb\* and screw down using appropriate 5mm x 50mm fixings (not supplied) ensuring good engagement. \*As shown in previous image.



Once eaves beam/rail is fitted, silicone corner joints.



Attach the glazing rafter end cap brackets - as access restriction may prevent easy fixing later.

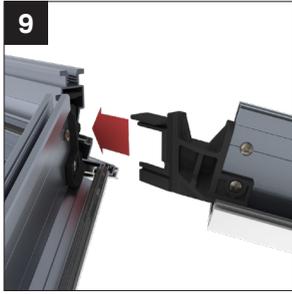
If fitting a square lantern, steps 8, 9, 10 don't apply. See step 11.



Prop the ridge body, now attach the left hand hip rafter by inserting the ridgeLOCK into the ridge body. The branding 'ridgeLOCK L20' indicates this is a left hand part.

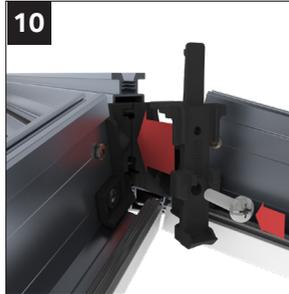
Rectangle lantern only.

# GENERAL INSTALLATION



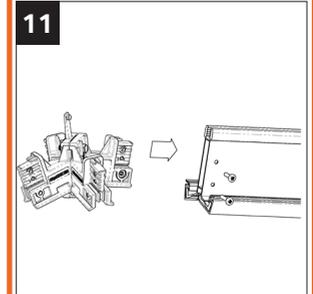
Attach the right hand hip rafter by inserting the ridgeLOCK into the ridge body through the left hand ridgeLOCK. The branding 'ridgeLOCK R20' indicates this is a right hand part.

Rectangle lantern only.



Secure in place using the ridgeLOCK fixing bracket over the left and right hand parts and bolt into the ridge. Repeat process at opposite end of the ridge.

Rectangle lantern only.



Fit each hip rafter to the tenons of the ridgeLOCK. Secure in place into pre drilled holes using M5 x 16mm screw in the upper hole and the M5 x 20mm screw in the lower hole.



Remove nuts on eaves beam. Fit hip rafters onto bolts at eaves end and hand tighten nuts.

Cross section of ridge



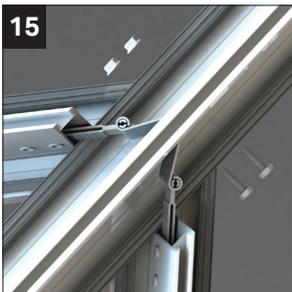
**If the project contains central rafters between the hips.** Tighten the central rafter bracket screw to ensure it is properly secured.

Rectangle lantern only.

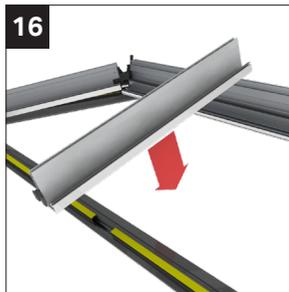


**If the project contains central rafters between the hips.** Position the rafter between the two hip rafters, secure using the 30mm hex bolt and flanged nut provided.

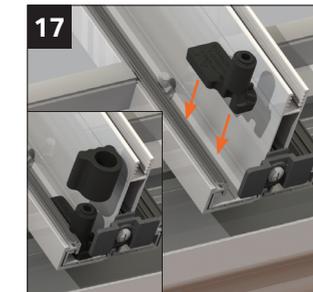
Rectangle lantern only.



**If the project contains jack rafters:** Offer up the jack rafter to the hip at the ridge and the pre drilled holes on the hip rafter, push the bolts through jack rafter bracket and secure with flanged nuts.



**If the project contains side rafters:** Locate the rafter on the bolts at the ridge and eaves, once in position secure with flanged nuts. Check the ridge is level.



Snap off appropriate handed glazing stop. Place this onto the base of the glazing rafter. Snap off a gromet from the kit, this will slot over the up-stand on the glazing stop. Repeat this for all glazing rafters on the roof. DO NOT screw in place until step 21.

# GENERAL INSTALLATION



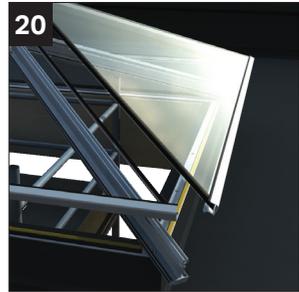
MS Polymer sealant only on Self cleaning glass

MS Polymer

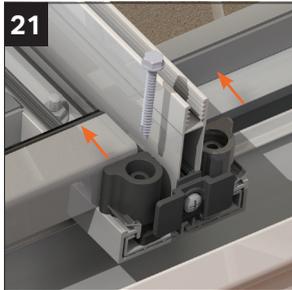
Seal underside of top face of glazing end profile as shown. Depending on the roof specification this can either be a PVCu or Aluminium profile.



Peel back a small tab of the protective film on the glazing support from the eaves.

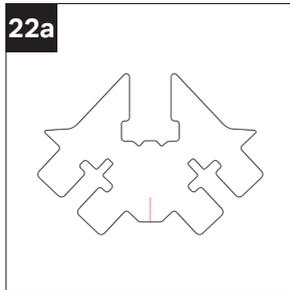


Lift glass units into place onto the eaves support trim and lower into place. Ensure that the glass contacts the gaskets on the glazing rafters and the ridge. Peel away protective film from glazing support.



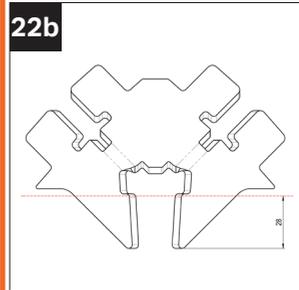
Ensure that glazing end profile sits snugly behind grommet, on the glazing end stop. Now using the fixings provided, screw down into the rafters as shown.

If fitting square lantern, see step 22b



If the project contains central rafters between the hips. Perform the cut detailed in the image above approximately 15mm in length.

Rectangle lantern only.



Cut the ends off two weathering shields. Ensure glass is clean and dry before fitting. Peel back protective film from shields and position (adhesive face down) on glass, locating around the ridgeLOCK and hip rafters.



**ENSURE THE GLASS IS CLEAN AND DRY BEFORE FITTING.** Peel back protective film from weathering shield and position (adhesive face down) on glass, locating around the ridge and the hip rafters.



Work your way around the roof and fit the rafter top caps.

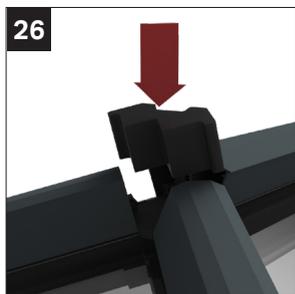
Filters tip: Suggested top cap installation order is hip top caps followed by the ridge top cap and finally any rafter top caps.



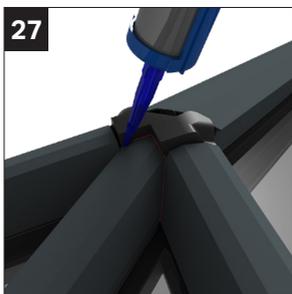
Fit the ridge top cap, ensure that the top cap clips are evenly spaced. Push down along the length to check the top cap is fully engaged.

Rectangle lantern only.

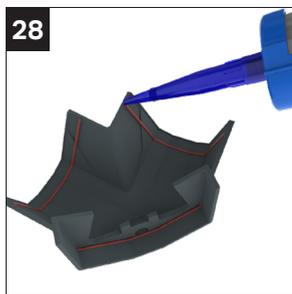
# GENERAL INSTALLATION



**26**  
If the project contains central rafters **between the hips**. Position the weathering barrier on the previously installed weathering shield and tuck the tabs underneath the hip top caps.  
**Rectangle lantern only.**

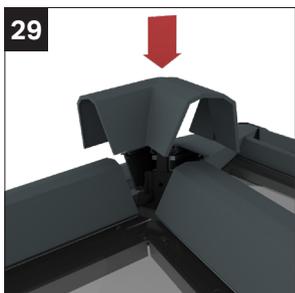


**27**  
If the project contains central rafters **between the hips**. Apply a bead of silicone around the central bar top cap.  
**Rectangle lantern only.**

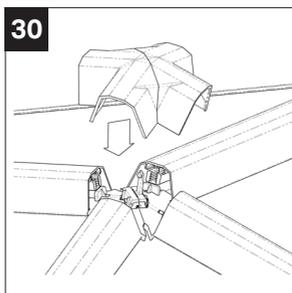


**28**  
Apply a small bead of sealant to the inside of the external cover (as shown) around where the part meets the glazing rafters top caps and the ridge top cap.

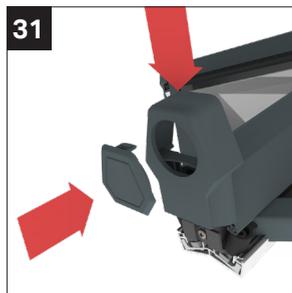
If fitting a square lantern, see step 30.



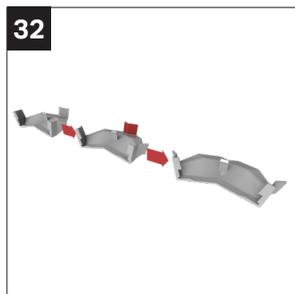
**29**  
Fit the ridge end external cover and press down firmly clipping in place.



**30**  
Clip the external cover on top the ridgeLOCK and assembled bars. Ensure the clip feature meets the corresponding ridgeLOCK clip feature.



**31**  
Fit end caps to rafters and push in the end cap infill.



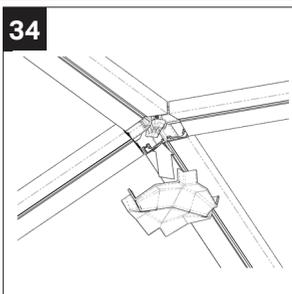
**32**  
When central rafter is specified, the internal cover will need the highlighted section removing using a hacksaw. Tidy edges using a small file if required.

**Rectangle lantern only.**



**33**  
Fit the internal plastic cover by clipping in place.

**Rectangle lantern only.**



**34**  
Clip the internal cover up into the ridgeLOCK from below. Ensure the clip feature meets the corresponding ridgeLOCK clip feature.

If fitting a square lantern, see step 34.

If in doubt at any stage of the installation, please contact the Tech Support Team on 01200 452 318 or email [customerservice@wendland.uk.com](mailto:customerservice@wendland.uk.com)



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ROOF SOLUTIONS

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© Wendland - Our policy is one of continuous improvement and we reserve the right to change specification and design at any time without prior notice.

Job No. 5097 Wendland Lantern V4 08/21 LANG001