



# Your guide to operation and maintenance



# Cleaning

Your Liniar glazed products require a minimal amount of care in order to give you trouble-free operation and remain in optimum condition for many years to come.

The following information will show you the most effective way to clean your Liniar products.

## Standard PVCu frames

- Wash frames with a soap and water solution (dilute washing up liquid is fine) to avoid the build-up of grime and atmospheric deposits.
- For stubborn stains, use a non-abrasive PVCu liquid cleaner. Use sparingly and buff to shine.
- Avoid solvent-based cleaners and take care not to disturb any sealants.

## Coloured foiled PVCu frames

- Only use a soap and water solution to clean woodgrained or foiled windows.
- Never use cleaning fluid or solvent-based cleaners.
- Minor scratches can be repaired using a matching touch-up pen

## Hardware and furniture

- Only clean with a soap and water solution.
- Do not use abrasive cleaners.

## Glazed units

- Remove all hand jewellery prior to cleaning to avoid scratching.
- Remove any heavy external grime with a soap and water solution first.
- Use any proprietary household cleaner, applying with a soft cloth and buffing to a shine.
- Glass fitted with external Georgian bars may be cleaned in exactly the same way, taking care not to disturb.

## Leaded glass

- If leaded strips are bonded to the glazed unit, take extra care as excessive pressure may dislodge the lead from the glass surface.
- Use a soft cloth with warm soapy water, applied with moderate pressure.
- Note that external lead will oxidise. This is a natural phenomenon and cannot be avoided.

## Conservatory or porch roofs

Linlar do not advise the access of a conservatory roof without the use of scaffolding or platforms.

Never lean ladders against PVCu frames, gutters or glass as this may result in damage.

Keep all gutters and outlets clear of leaves and other debris to maintain efficient operation.

### Self cleaning glass

- Do not use abrasive or solvent based cleaners on the external glazing surface as the self-cleaning properties may be affected.
- Use a soft cloth with warm soapy water and buff to a shine.
- A proprietary household cleaner may be used on the inside of the glass.

### Polycarbonate

- Clean in a similar manner to PVCu frames, removing grime and atmospheric deposits to avoid build-up.



# General maintenance

## Lubrication

All locking systems require periodic lubrication, and your Liniar windows and doors are no exception.

- For hardware and opening mechanisms, use light machine oil (for example, 3-in-1) or silicone based spray.

## Drainage

All Liniar glazed products are designed with an in-built drainage system, comprising of slots within the lower thresholds that allow any water ingress to flow on the outside. To ensure an efficient system, these slots must remain unblocked.

Periodically remove dirt, clean drain holes and check the drainage operation by flushing through with water.

## Mastic seal



The mastic seal is the waterproof seal found around your doors and windows.

Please note that some discolouration of the seal is a natural occurrence and cannot be avoided.

Periodically check that the seal is still intact between frame and brickwork.



# Security

Your Linear windows, doors and roof have been specifically designed to include a number of security features to protect your home and family against intrusion.

## **Remember: prevention is better than cure.**

We recommend the following sensible security precautions should also be taken:

- Never leave a window or door open when your home is unattended.
- Lock all windows whenever they are in the closed position and remove all keys.
- To provide adequate means of escape in an emergency, locate keys adjacent to the window but out of external view.
- When leaving the house unattended at night, ensure door handles are fully lifted and that the keys are turned, in order to throw and lock all deadbolts and shootbolts for full security.



# Glazing information

## Glass imperfections

All double and triple glazed units are susceptible to a degree of surface damage during the manufacturing process. Certain imperfections in the glass cannot be avoided, even in the most carefully controlled production environment.

Such blemishes and imperfections are therefore beyond our control, but are considered acceptable by even the most rigorous industry standards – we would like to draw your attention to the following extract from an industry-accepted standard in relation to glass:

1. Transparent glass used in the manufacture of double glazed units is identical to that used in traditional single glazing and will therefore have a similar level of quality.
2. Both panes of the double glazed unit shall be viewed from the room side, standing at a distance of two metres (6'6") in natural daylight and not in direct sunlight. The area to be viewed is the normal vision area, with the exception of a 50mm (2") wide band around the perimeter of the unit.
3. Flat transparent glass shall be deemed acceptable if the

following phenomenon are neither obtrusive nor bunched:

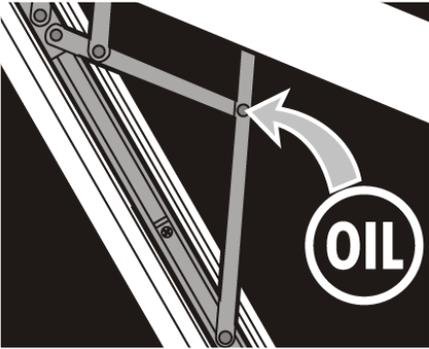
- Totally enclosed seeds
  - Bubbles or blisters
  - Hairlines or blobs
  - Fine scratched, not more than 25mm (1") long
  - Minute embedded particles.
4. Obtrusiveness of blemishes shall be judged by looking through the glass and not at it, under normal lighting conditions as described in point 2.

## Other glazing information

Your installer has used only the highest quality float glass available, whether laminated, toughened or annealed, which conforms to the requirements of BS 6262.

Double and triple glazed units produced to BS 7513 conform to the highest manufacturing standards and the most uncompromising quality control and inspection routines.

Patterned glass originates in very large sheets and due to spacing repetition, centralisation of any design in a specific window cannot be guaranteed.



# Maintenance

## Friction hinges

To attain optimum performance the scissor mechanism of the friction hinges will require periodic lubrication. The pivots, sliding shoe and tracts should be kept free of dirt and debris.

## Lubrication - as required

Oil all pivot points (one drop per pivot is sufficient) and wipe away excess.



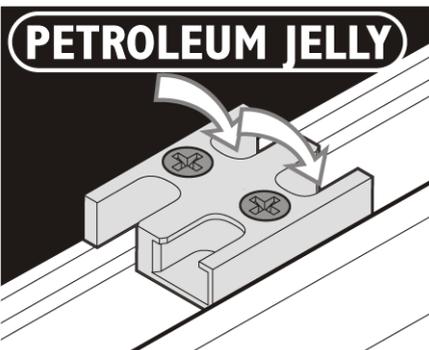
## Espagnolette - locking mechanism

Lubricate - as required.

Keep the sliding mechanism free of dirt and lubricate each slot with light machine oil.

## Keeps

Lubricate the slots of the keeps with petroleum jelly as required.



## Handles - (espagnolette locking)

Clean and lightly oil moving parts.

## Tilt & Turn windows

Liniar's versatile tilt and turn windows are fitted with 'tilt before turn' (TBT) mechanisms for safety reasons – ensuring the window cannot be easily opened by children. This style of window is capable of two modes of operation:

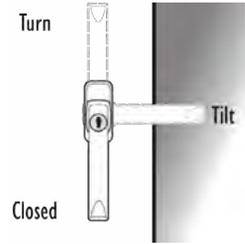
- Tilt mode for ventilation
- Turn mode for cleaning and emergency exits

As the name suggests, the tilt mode must be performed prior to turning the window – however these windows may also be supplied in 'turn before tilt' mode where the sequence is reversed.

If you are in any doubt as to the sequence of operation for your windows, please contact your installer.

**NB: The window must always be fully closed before changing the handle's position.**

To operate the window, the handle should be in one of three positions: Closed, Tilt or Turn



If fitted, turn the key to unlock the window.

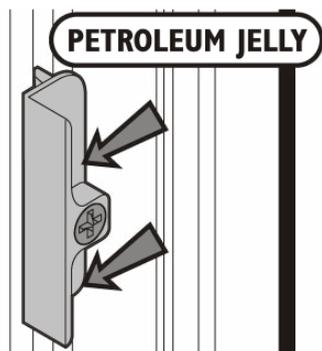
To select Tilt mode, rotate the handle through 90° from downwards to horizontal, and pull the window inwards towards you. The bottom of the window will remain hinged to the frame, while the top tilts inwards to allow ventilation.

To select Turn mode, close the window and rotate the handle through another 90° until it points upwards, then pull the window inwards. The side will now remain hinged to the frame while the window will open inwards to any desired position.



## (SWITCH BARRIER)

**DO NOT TOUCH**



## Maintenance

The switch barrier projecting from the locking mechanism, adjacent to the handle, is a safety device. It ensures that only one mode ('tilt' or 'turn') can be selected at any one time, by securing the handle into the selected mode, while the window is open.

Avoid pressing the switch barrier as this action releases the handle and could allow it to be inadvertently rotated to the alternative mode, resulting in the window disengaging from its hinge points

Always firmly close the window before changing the handle position.

### TBT locking mechanism

Keep sliding mechanism free of dirt and lubricate each slot with light machine oil as required.

### Keeps

Lubricate the faces of the keeps with petroleum jelly as required.

### Handles

Clean and lightly oil moving parts.

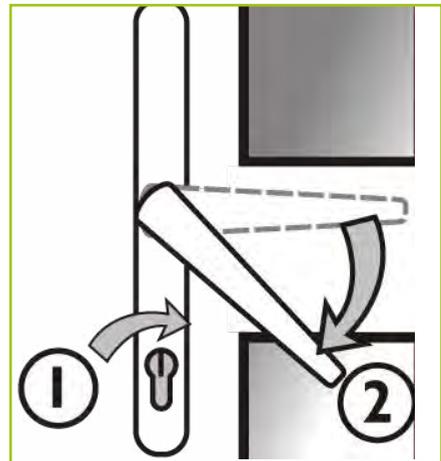
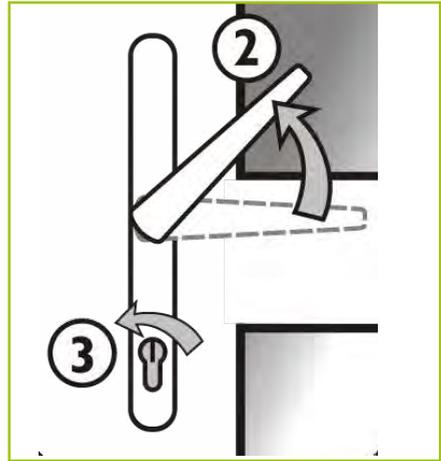
## To lock

1. Close the door - latch engaged.
2. Lift the handle or pad to engage the top and bottom deadbolts/ hookbolts/rollers.
3. Insert key and turn to engage centre deadbolt and fully lock.

If the key will not turn, lift the handle or pad to maximum.

## To unlock

1. Insert the key and turn to unlock.
2. Press handle or pad down to disengage top and bottom deadbolts/hookbolts/rollers.
3. With level handle, door will open.
4. With pad handle, continue to turn key to open.



# Maintenance

## Locking mechanism

With door open, lubricate the deadbolts, hookbolts, rollers and latchlock with light machine oil if required. DO NOT add additional lubricant to the lock cylinder as this is packed with special grease.

Clean and lightly oil external moving parts.

## Hinges

Clean with a soap and water solution. No lubrication is required.

# Dos & Don'ts

The following section indicates simple best practice 'dos and don'ts' to ensure continual optimum performance of your Liniar products.

## Do

- ✓ Clean the glass regularly with a good quality liquid spray glass cleaner
- ✓ Frequently wash down the PVCu profiles with warm soapy water and wipe dry
- ✓ Only use cleaning materials which do not impair anti-corrosion properties of the surface coatings
- ✓ Use cream cleaner for isolated stubborn stains on white PVCu only. Apply with a damp cloth using minimal pressure
- ✓ Ensure drainage slots are unblocked and free from dirt and debris
- ✓ Keep all tracks clear of dust and debris in order to reduce wear and tear on sliding parts
- ✓ Check all fire escapes' hardware regularly for wear and tear and a consistent fit
- ✓ Ensure conservatory gutters and their outlets are kept clear of leaves and debris to ensure unobstructed flow
- ✓ All moving mechanical parts are lubricated - hinges, locks and keep plates will benefit from a small application of light oil at least once a year
- ✓ Replace damaged or worn parts with original Liniar parts.

## Don't

- ✗ Use any type of bleach, solvent (e.g. white spirit, methylated spirits, nail varnish remover) or adhesives
- ✗ Use abrasives or brass cleaner on furniture: handles, door knockers, letter plates
- ✗ Use glass cleaner on the PVCu profile
- ✗ Use abrasive paste or cream cleaners on any PVCu profile
- ✗ Use high pressure or steam cleaners
- ✗ Use any abrasive papers, such as sandpaper
- ✗ Use excessive loads on the windows and doors
- ✗ Lean ladders against conservatory guttering
- ✗ Paint the PVCu profile
- ✗ Use any unspecified tools
- ✗ Use abrasive or solvent-based cleaners on self-cleaning glass.