

**Teleflex**<sup>®</sup>  
ARCHITECTURAL

WINDOW WARE



Established 1987

**Teleflex**  
**Window Control Systems**

Installation Manual and Method Statement

**Teleflex®**  
ARCHITECTURAL

# WINDOW WARE



Established 1987

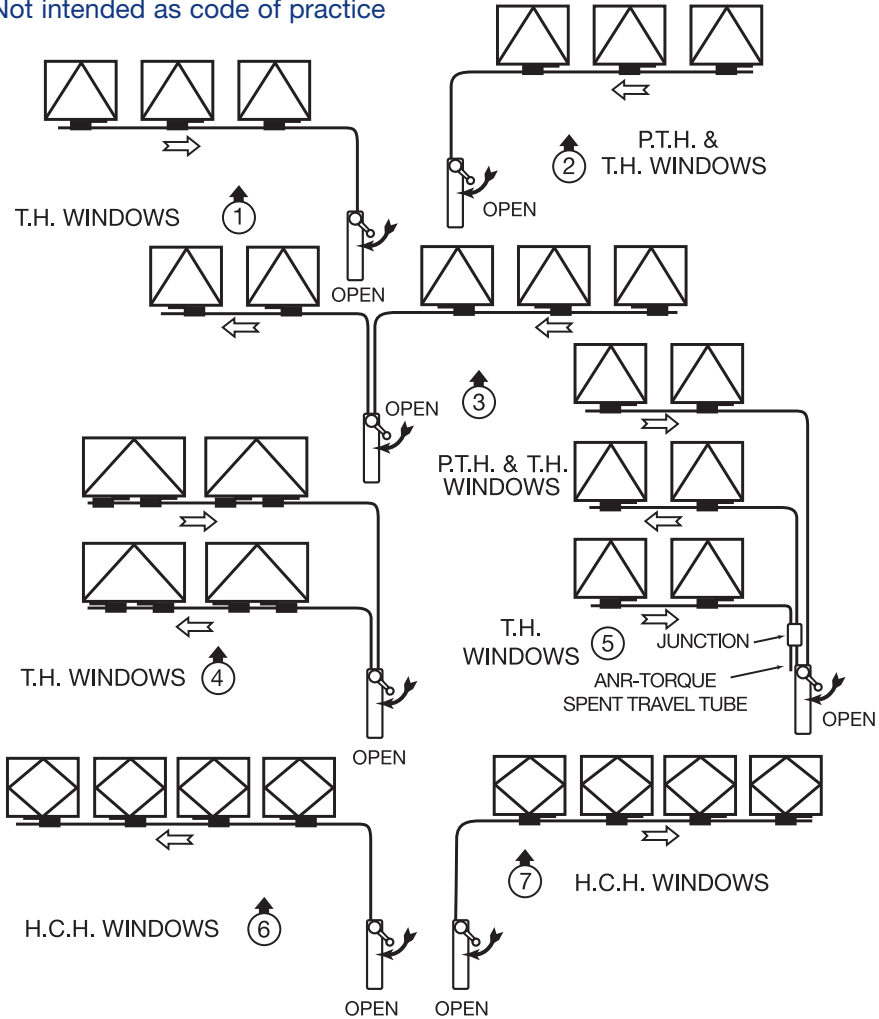
# Foreword

It is important for the successful operation of Teleflex that the information in these instructions is adhered to.

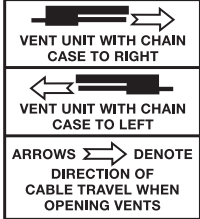
We recommend that a little time be spent visualising the proposed layout and ensuring that the windows can be operated freely.

# Chain Units - 250mm Installation formats

Not intended as code of practice



H.C.H. = HORIZONTAL CENTRE HUNG  
T.H. = TOP HUNG  
P.T.H. = PROJECTED TOP HUNG

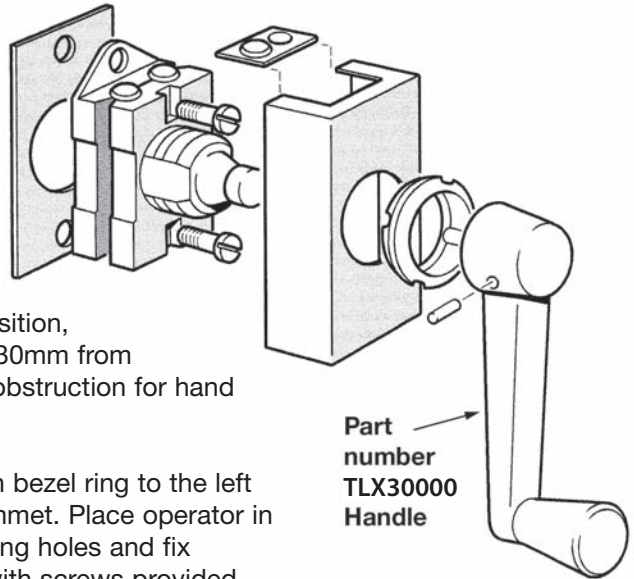


Observe the positions of conduit exit from operator and the handling of the chain cases of the vent unit.

Chain Opener 250mm TLX10000

# Mini Operator - TLX20001

Thrust/Traction Force 18kg



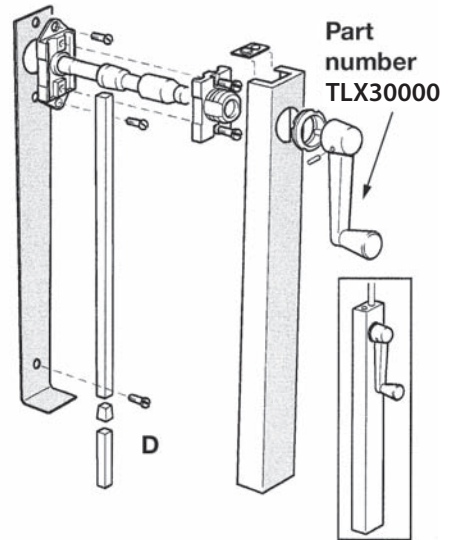
1. Decide upon operator position, allowing approximately 230mm from centre of unit to nearest obstruction for hand clearance.
2. To remove trim cover turn bezel ring to the left and remove. Collect grommet. Place operator in position, mark off two fixing holes and fix through fibre backplate with screws provided.
3. Remove top half of operator body, fit grommet over conduit end and insert conduit into operator. Ensure swaged groove in conduit engages with rib in operator.\* Refit top half of body.  
NOTE: The conduit can be assembled to either entry, the right-hand entry giving clockwise rotation of handle with cable in tension (pulling).
4. Complete the installation of vent units and conduit.
5. Feed chamfered end of cable into the spent travel entry until it contacts the cable wheel. Assemble handle to operate drive claw and wind the cable into conduit until it appears out of spent travel tube at far end of run. Wind back, flush to end of tube and mark cable flush with operator body for cutting.
6. Cut cable with a junior hack-saw and file the edges smooth.
7. Fit stop collar and spent travel tube.
8. Refit trim cover, washer and bezel ring.

\* For swaging details refer to page 12

# Midi Operator - TLX20000

Thrust/Traction Force 18kg

1. Decide upon operator position, allowing approximately 230mm from centre of unit to nearest obstruction for hand clearance.
2. To remove trim cover, turn bezel ring to the left and remove. Collect grommet. Place operator in position, mark off three fixing holes and fix through backplate with screws provided.
3. Remove top half of operator body, fit grommet over conduit end and insert conduit into operator. Ensure swaged groove in conduit engages with rib in operator.\* Refit top half of body.



NOTE: The conduit can be assembled to either entry, the right-hand entry giving clockwise rotation of handle with cable in tension (pulling)

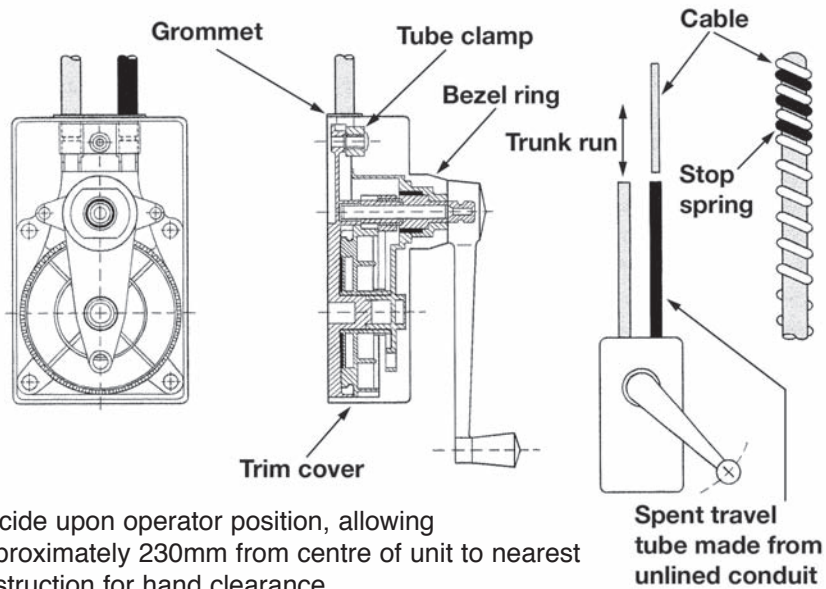
4. Complete the installation of vent units and conduit.
5. Feed chamfered end of cable into the spent travel entry until it contacts the cable wheel. Assemble handle to operate the drive claw and wind the cable into conduit until it appears out of spent travel tube at far end of run. Wind back, flush to end of tube and mark cable flush with operator body for cutting.
6. Cut cable with a junior hack-saw and file the edges smooth.
7. Fit stop collar and spent travel tube.
8. Refit trim cover, washer and bezel ring.

NOTE: Travel stop 'D', if fitted, will restrict travel by 50mm.

\* For swaging details refer to page 12

# Maxi Operator - TLX21000

Thrust/Traction Force 32kg



1. Decide upon operator position, allowing approximately 230mm from centre of unit to nearest obstruction for hand clearance.
2. To remove trim cover, turn bezel ring to the left and remove. Collect grommet. Place operator in position, mark off four fixing holes and fix with screws provided.
3. Fit grommet over conduit end, insert conduit into operator and retain with tube clamp. Ensure shoulder of clamp is engaged in swaged groove on conduit.\*  
NOTE: The conduit can be assembled to either entry, the left-hand entry giving clockwise rotation of handle with cable in tension (pulling).
4. Complete the installation of vent units and conduit
5. Feed the chamfered end of cable into the spent travel entry until it contacts the cable wheel. Assemble handle to operate drive claw and wind the cable into conduit until it appears out of spent travel tube at far end of run. Wind back, flush to end of tube and mark cable flush with operator body for cutting.
6. Cut cable with a Junior hack-saw and file the edges smooth.
7. Fit stop collar and spent travel tube.
8. Refit trim cover, washer and bezel ring.

\* For swaging details refer to page 12

# Chain Opener TLX10000 (250mm)

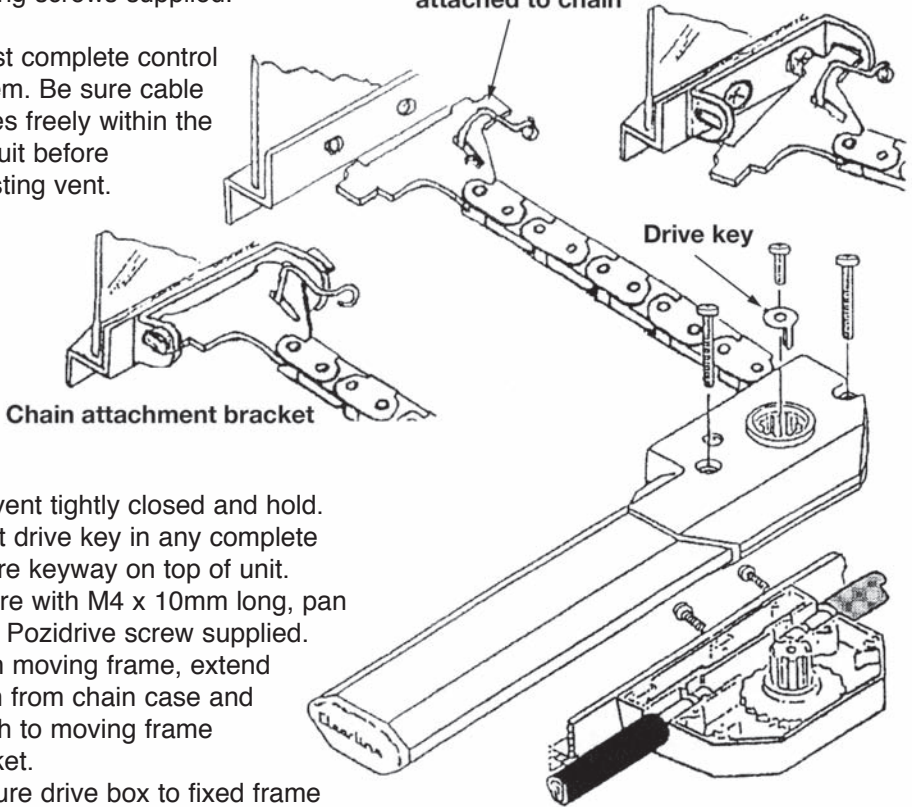
Thrust/Traction Force 4.5kct

Secure chain attachment bracket to moving frame using the two pan head No. 10x 10mm long, self-tapping screws supplied.

Adjust complete control system. Be sure cable moves freely within the conduit before adjusting vent.

WINDOWS MUST PIVOT FREELY

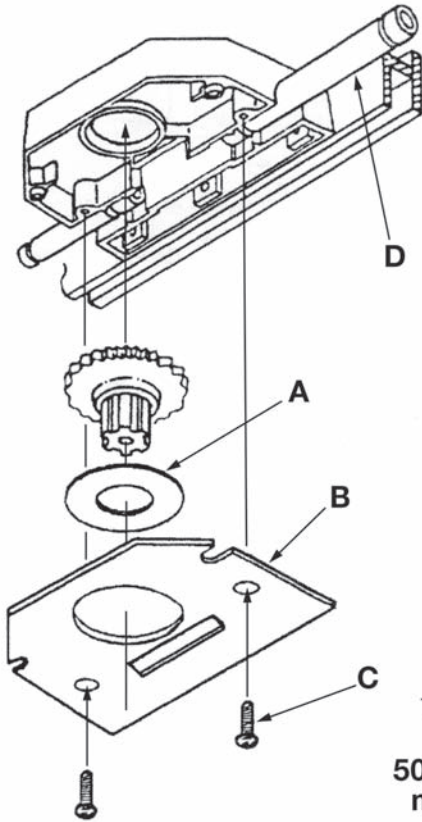
This fitting is permanently attached to chain



Pull vent tightly closed and hold. Insert drive key in any complete square keyway on top of unit. Secure with M4 x 10mm long, pan head Pozidrive screw supplied. Open moving frame, extend chain from chain case and attach to moving frame bracket. (Secure drive box to fixed frame using two c'sk M5 x 12mm long screws supplied).

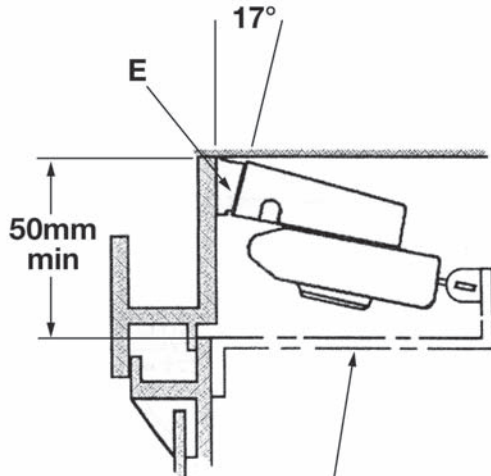
FITTINGS ARE INCLUDED IN KIT - 211855, SUPPLIED WITH CHAIN OPENER

# Chain opener Bottom Hinged Windows TXL10000 (250mm)



Standard drive box plus conversion kit 206708 comprising items A, B, C, D, & E

This angle is necessary for correct function of the chain opener



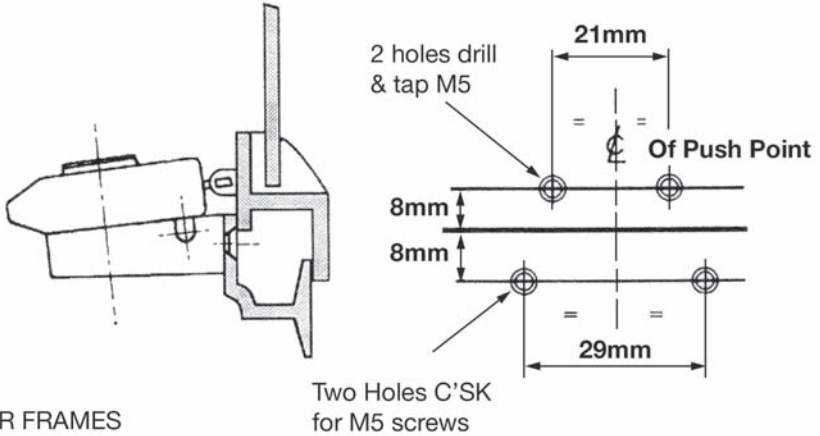
**Bracket not supplied by Teleflex Morse**

For all feedback, bottom hinged installations it is advisable that the window manufacturer be asked to provide side checks to the vent.

# Chain Opener Vent Preparation

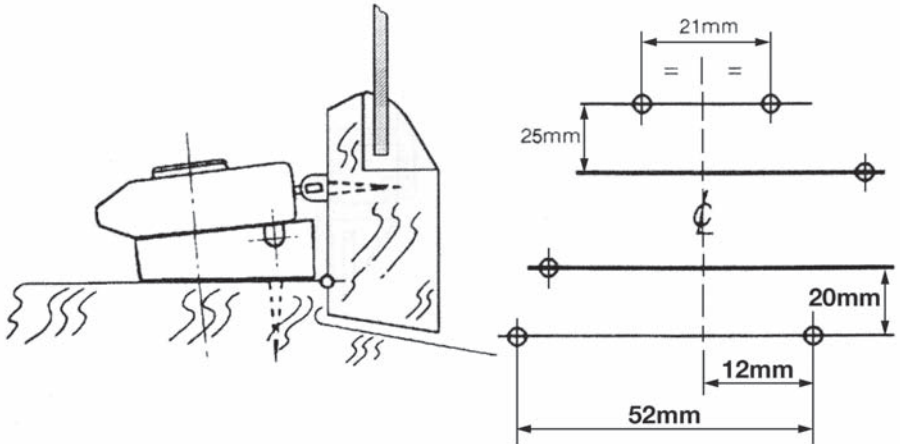
METAL FRAMES/UPC

Left or right vent unit



TIMBER FRAMES  
Left vent unit illustrated

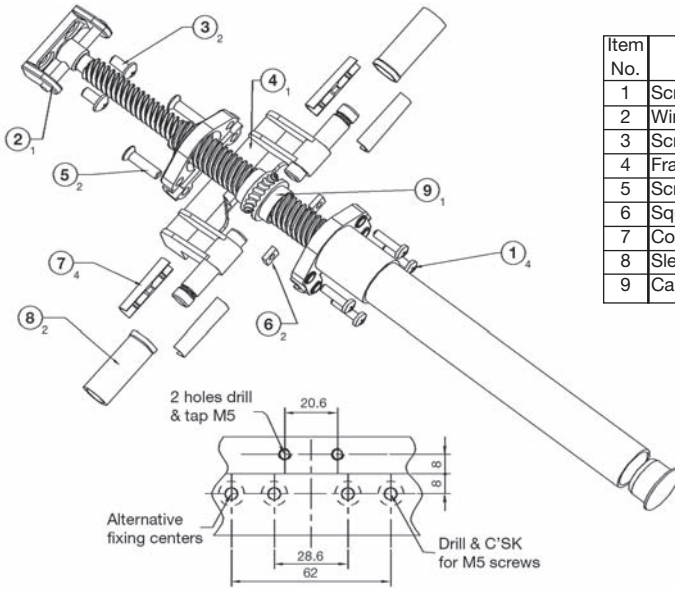
Fix drive box & chain attachment bracket with No. 8 round head wood screws, 25mm long.  
Knock out holes in base box



Chain opener TLX10000 (250mm)

# 380mm Screwjack Opener (Non Stock)

Thrust/Traction Force 4.5kg



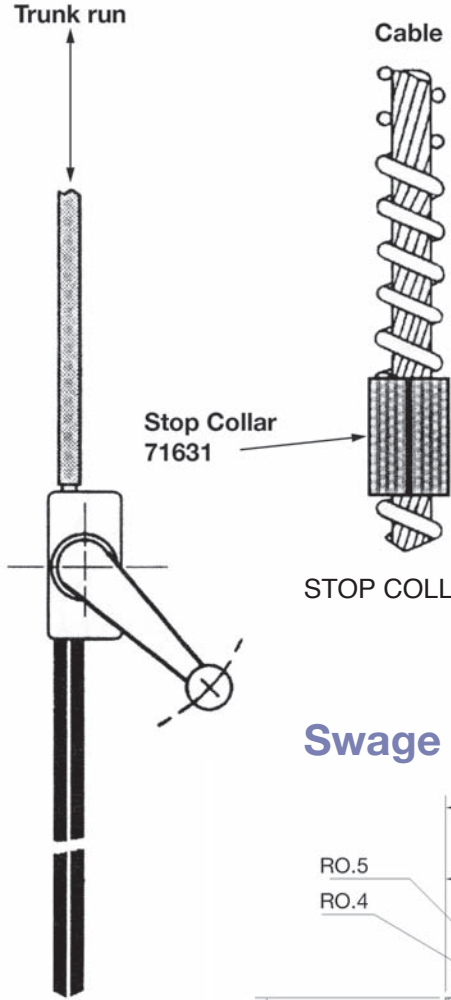
Item No.	DESCRIPTION
1	Screw, M4, Pozi-pan Head
2	Window Mounting Bracket
3	Screw, M5, Pozi-pan Head
4	Frame Mounting Bracket
5	Screw, M5, C/Sunk Head
6	Square Nut, M5
7	Collet Half
8	Sleeve/Barrel
9	Cable Wheel

Fig. 1

- Pre-drill the window frame/opening vent to dimensions shown on Fig 1. When drilling with glass already fitted, care should be exercised to avoid cracking the glass.
- Dismantle the screw jack via the four screws (Item 1).
- Fit the Window Mounting Bracket (Item 2) to window with screws (Item 3).
- Fit the Frame Mounting Bracket (Item 4) to window frame with screws (Item 5) and nuts (Item 6).
- Connect the conduit to the adaptor on the screw jack with the Sleeve/Barrel (Item 8) and Collets (Item 7), then assemble the connectors.
- Screw jacks situated at the end of each control run must have a spent travel tube assembled on the adaptor opposite to the input and secured with a conduit connector.
- Conduit entry to the screw jack is recommended from right hand side.
- Insert the core/cable into the installation and cut to length, ensuring that the travel direction is correct to open the windows.
- To ensure that windows are fully closed on the operator, wind the handle back 1/4 turn to closed position before engaging the Cable Wheel (Item 9).
- With window closed lay the Cable Wheel on top of the core/cable and screw the case in place with four screws (Item 1).
- Make sure that stops on the cable are fitted for open and closed positions.
- Screw Jack's safe working load is 13.6kg (30lbs), install one unit per 1.60sq.m. (window's WIDTH x HEIGHT), max opening is 380mm.

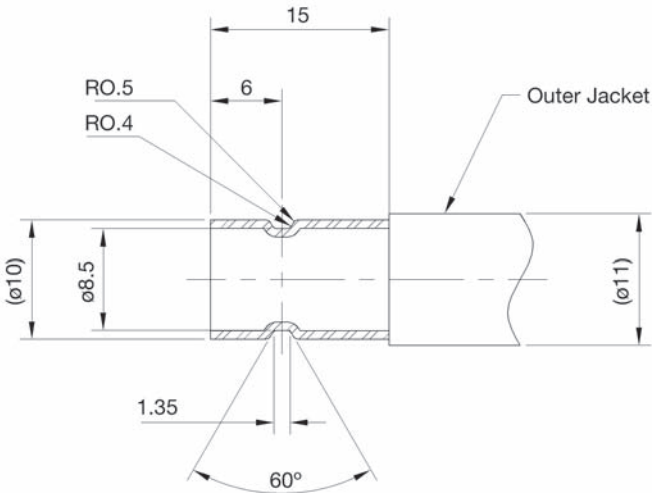
# Spent Travel Tube Data

Mini Operator



STOP COLLAR - applicable to operator end only

## Swage position on Conduit



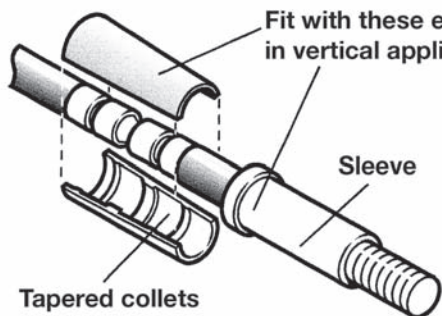
## Conduit / Accessories



Conduit  
Part number TLX40000

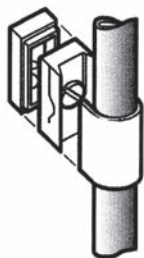


Cable Part number TLX41000  
Clearline cable supplied in coils for cutting to length on site

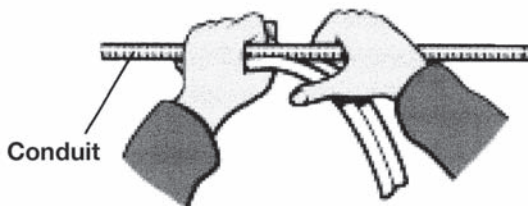


Fit with these ends downwards  
in vertical application

Connector  
Part number TLX50000



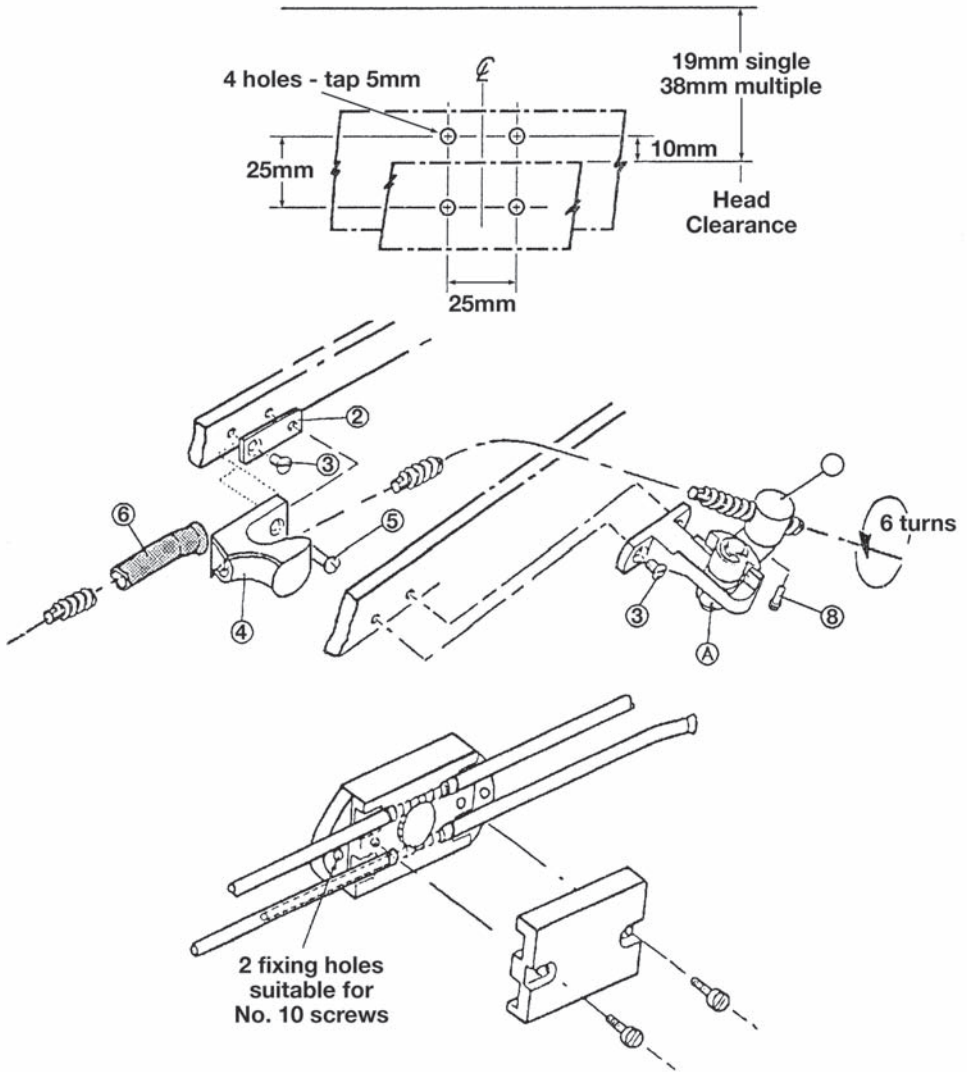
Conduit Saddle



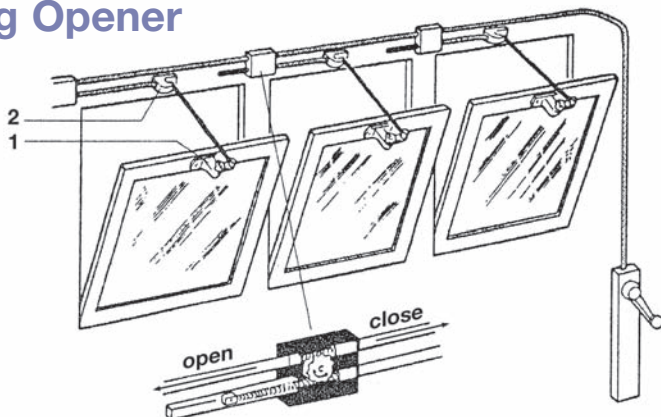
Conduit

Bending former  
Part number TLX99998

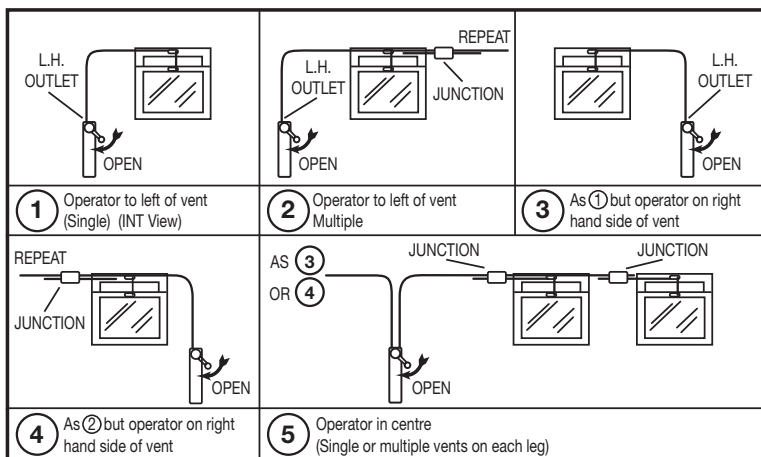
# Locking Opener (Non Stock)



# Locking Opener



For all fallback, bottom hinged installations it is advisable that the window manufacturer be asked to provide side checks to the vent

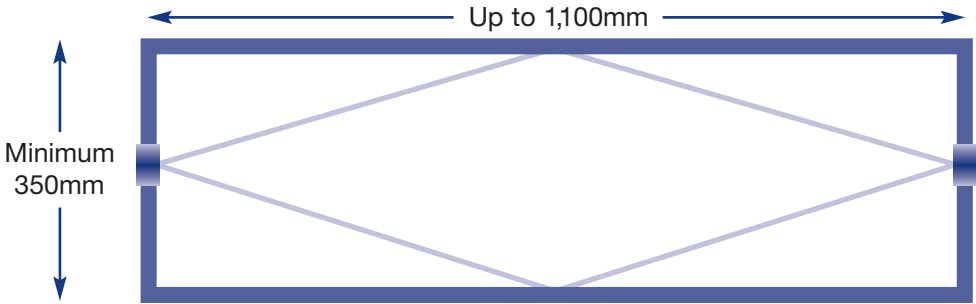


## TYPICAL LAYOUTS

### SPECIAL NOTES FOR ASSEMBLY

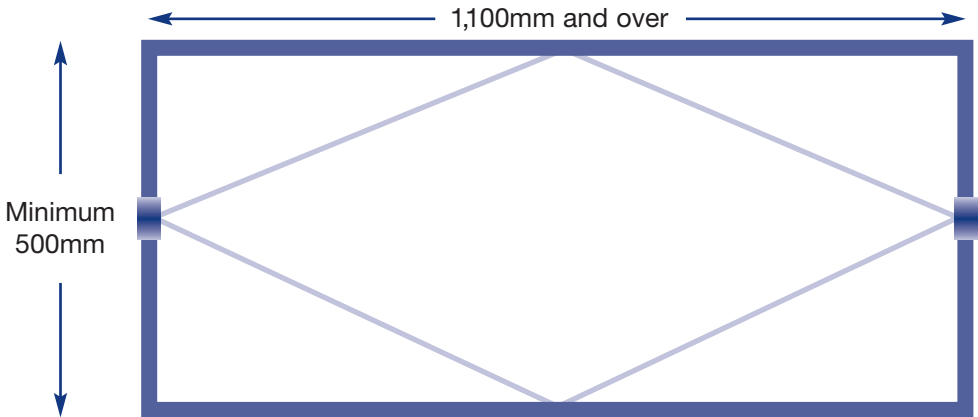
1. If operating unit is mounted to the left-hand of the window, mounting claw, mounting plate and junction unit must be reversed.
2. Trunnion of opening arm assembly (item 1) is threaded to suit cable. To assemble, screw opening arm assembly to cable, 6 turns anti-clockwise until cable protrudes through trunnion by 6mm. Lock cable to trunnion with grub screw, using  $\frac{3}{32}$ " A/F allen key.
3. To adjust window for tight closing:- Fasten opening arm assembly to window and swing the pivoting arm into engagement with the claw (item 2). Loosen the  $\frac{5}{16}$ " B.S.F. nut on the inside of the arm and push the window tightly closed. Spanner the nut tight.

# Window Sizes



## Centre Pivot up to 1,100mm

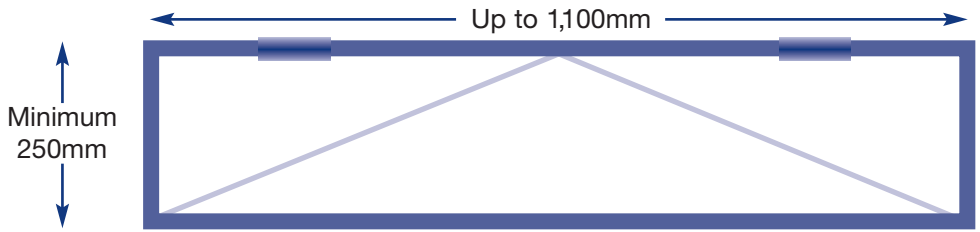
Product required: Chain Unit. Operator: Midi / Mini / Maxi  
Distance from chain to operator, based on 2 90° bends, up to 30 metres.



## Centre Pivot 1,100mm and over

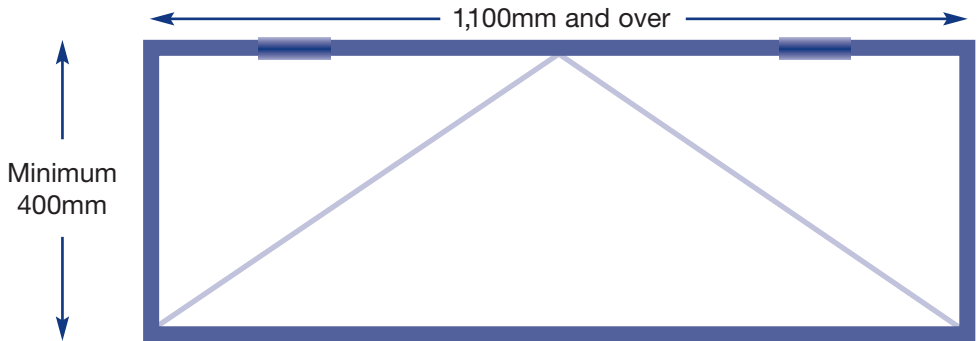
Product required: 2 Chain Units. Operator: Midi / Mini / Maxi  
Distance from chain to operator, based on 2 90° bends, up to 20 metres.

# Window Sizes



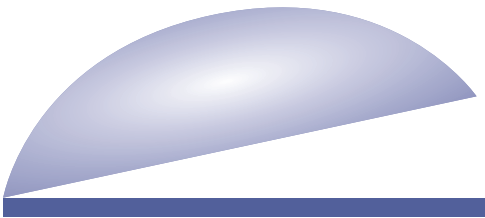
## Top Hung and Projection Hinged up to 1,100mm

Product required: Chain Unit. Operator: Midi / Mini / Maxi  
Distance from chain to operator, based on 2 90° bends, up to 30 metres.



## Top Hung and Projection Hinged 1,100mm and over

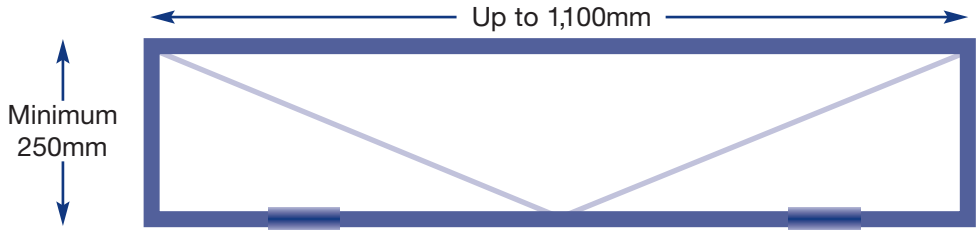
Product required: 2 Chain Units. Operator: Midi / Mini / Maxi  
Distance from chain to operator, based on 2 90° bends, up to 30 metres.



## Roof Lights

Product required: Screwjack. Operator, based on 20kilo window weight: Midi / Mini / Maxi. Distance from operator, based on 2 90° bends, up to 20 metres.

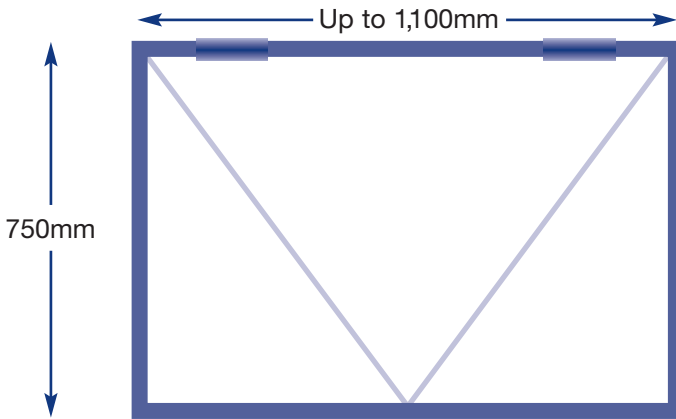
# Window Sizes



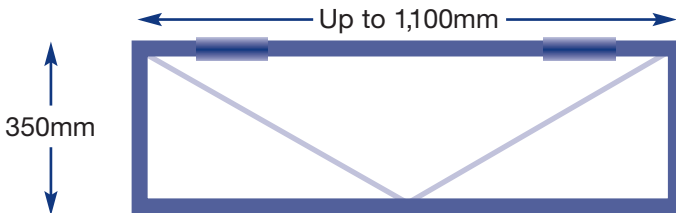
## Fall Back Window

Product required: Locking Opener or Chain Unit. Operator: Midi / Mini / Maxi  
Distance from operator, based on 2 90° bends, up to 30 metres.

The number of windows that can be opened using a single operator depends on the depth of the window. When projection hinges are used more force is required to close the window. [See examples below.](#)



6 windows can be opened using one operator



3 windows can be opened using one operator

Visit our website for details of our National Distribution network and expert advice

**Teleflex**<sup>®</sup>  
ARCHITECTURAL

WINDOW WARE



Established 1987

[www.windowware.co.uk](http://www.windowware.co.uk)

**Teleflex®**  
ARCHITECTURAL

# WINDOW WARE



*Established 1987*

For further product information please contact us at:

Window Ware, Telford Way, Cross Park, BEDFORD, Bedfordshire, MK42 0PQ

Tel: **01234 242724** ask for Technical or go to our web site at:

[www.windowware.co.uk](http://www.windowware.co.uk)