CS 68 WINDOWS & DOORS INSTALLATION GUIDE



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HARPERTON CONTRACTOR

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Please read through the entire guide before beginning installation.

- 1. It is extremely important that work on the Reynaers systems is performed by the supplier of the systems (or a Reynaers approved installer). In this way the system guarantee remains preserved.
- **2.** Hardware parts of the Reynaers system should only be replaced by the original parts provided by the Reynaers dealer.
- **3.** The information in this guide is intended to assist in the installation of the Reynaers systems and needs to be used in conjunction with the specific fabrication drawings for your project.
- **4.** In case this guide does not provide an answer to all your questions, please contact your local Reynaers professional. They can give you detailed advice on the installation of the Reynaers window & door system(s).

1. FITTING



1.1. FITTING IN THE STRUCTURAL WORK

Attachment to the building is either by direct fixing through the profile, e.g. screws and plugs, or by using fixing lugs. When using screws and plugs ensure that the minimum edge distances' are in accordance with the processing guidelines of the sub structure manufacturer/supplier/installer. The anchorage should in no way affect the carrying capacity of the adjacent building components.

! BEFORE INSTALLATION COMMENCES: make sure the element is plumb and level. Use a level and ensure that profiles aren't twisted, damaging the element and its insertions. Measuring corner-to-corner and assuring that the dimensions match is one easy way to make sure.

- **a.** Anchorages shall be of aluminum or stainless/galvanized steel, corrosion resistant, so that the aluminum profiles are not subjected to bi-metallic corrosion.
- **b.** When installing elements, fixings are required on all sides with a max distance from each corner of 8" and max distance between fixings of 27 1/2".



- **c.** Where transom/mullions and outer frame profiles meet, the fixing must be applied maximum 8" from both sides of the transom/mullion. In this way, expansion and shrinkage of the transom/mullion (because of fluctuations in temperature) are possible without any damage.
- **d.** We recommend to position fixings at the height of each hinge and locking point.
- **e.** When screws and plugs are used directly through the profiles, the chambers in the bottom outer frame may not be pierced, so as to avoid water infiltration in this region.



NOTE: The anchoring should be applied in such a way that possible expansion / shrinkage of the element is not obstructed.

1.2. FITTING ACCESSORIES



The choice of the fixing points, number of locking points, number of hinges, max. vent weight, max. vent sizes, vent profile used etc. depends on the instructions of the system supplier and the accessory producer.

Sliding and moving parts should be provided with neutral grease.

CHECKING HARDWARE



TILT POSITION

When fitting, please check whether all accessories can be operated easily and without restriction.

After installation is complete, make sure all accessories function properly.*

ADJUSTING BARREL HINGES

Reynaers barrel hinges are adjustable after fabrication, allowing for detailed adjustment in height, depth and tilt of the door, should that be necessary.

For vertical adjustment:

- Loosen the screws (1) slightly
- From underneath, rotate the Allen screw to adjust the height accordingly (2)
- Re-tighten screws (1)

For horizontal adjustment:

- Loosen the screws (3) slightly (¼ rotation) Rotate the spindle to adjust the position
 - accordingly (4)
- Re-tighten screws (3)



* For correct operation, please see the Reynaers Operation, Care & Maintenance manual.









1.2. FITTING ACCESSORIES | INVISION GO HINGES



1.2. FITTING ACCESSORIES | INVISION PRO HINGES



2. GLAZING



2.1. BEFORE FITTING THE GLASS PANELS

Reynaers' systems are designed for EPDM gasket or neutral silicone glazing. In case of silicone glazing a backing rod should be applied to create a correct opening between the glass panel and the aluminum frame. For easy and reliable fitting, durability and re-glazing simplicity, we recommend using only Reynaers' gaskets – specially adapted for our profiles.

The following precautions should be taken when fitting the glazing:

- Cut the glazing gaskets 1/4" per foot longer than is necessary to avoid openings in the corners at a later stage.
- Drainage holes should be drilled to avoid build-up of moisture. This is also necessary in the case of silicone glazing (see fabrication drawings).
- Glass panels should be at least 1/2'' (1/4'' per side) smaller than the actual measured glazing size.
- The glass supports on the bottom of the glass panel should be sealed (see illustration below).



DECOMPRESSION & DRAINAGE

It is important to keep decompression and drainage holes free of any blockage. Decompression holes are located on the sides – drainage holes in the bottom profile. When applying gaskets and foam, please advise that these need to be cut and fitted to prevent blockage.

For Reynaers HI-variants (High Insulation), a foam tape is applied between the profile and glass. What is important is that this foam strip only runs between setting blocks and not over them. Also it is important that the foam strip does not block drainage holes (see illustration below).











COMBINATION



NOTE: Remember all fixed panes need to have a decompression notch, even those part of a bigger structure.

2.2. FITTING THE GLASS PANELS

INSIDE GLAZING

Glass panels should not come into contact with the aluminum frame; always use glazing blocks and gaskets. Wedging prevents this contact and also ensures correct positioning of the glass in the frame, distributing the weight equally onto the rollers to avoid deformation.

- 1. Insert outer gasket, making sure it is cut oversized ¼" per foot.
- **2.** Insert glazing blocks and supports.
- **3.** Position the glass with spacers (for detailed instructions, see the following pages).
- **4.** Seal off glass supports.
- **5.** Clip in glazing beads.
- 6. Insert outer gasket, making sure it is cut oversized ¼" per foot.



1.



2.

5.

3.











* See illustration on next page.



If needed, wooden or PVC spacers can be used when wedging gasket. >



OUTSIDE GLAZING

Glass panels should not come into contact with the aluminum frame; always use glazing blocks and gaskets. Wedging prevents this contact and also ensures correct positioning of the glass in the frame, distributing the weight equally onto the rollers to avoid deformation.



- **1.** Insert glazing blocks and supports.
- **2.** Position the glass with spacers (for detailed instructions, see the following pages). Make sure to leave room for the glazing bead to be twisted in.
- **3.** Clip in glazing beads. Make sure outer gasket is securely attached to the bead.
- **4.** Make sure glazing bead and glass is correctly positioned.
- **5.** Insert inner gasket, making sure it is cut oversized ¼" per foot.

HEEL AND TOE

In order to simplify fixing of the glazing we dispose of glass supports that can be used to level the bottom of the rebate. In this case it will be possible to apply rectangular glazing blocks.



MAIN SASH BOTTOM PANEL

It is most important that the panel is toe & heeled. The toe & heeling of this panel squares up the main door sash to the outer frame.

- **1.** Fit packers to the bottom corner nearest the hinge.
- **2.** Fit packers to the top corner (diagonally opposite). Using the glazing shovel placed in the gap between the panel and the mid rail of the door sash apply pressure on the shovel to lift the whole sash and the panel/unit to ensure that the sash remains parallel with the outer frame.
- **3.** Open, close, lock and unlock the sash/sashes to ensure correct operation.
- **4.** Once you are comfortable that the sash latches and locks correctly apply acrylic sealant to all packers to hold them in place (under no circumstances should silicone be used as silicone will break down the hot melts of DGU's).
- **5.** Bead up the sash/sashes as normal taking care not to dislodge the packers.

* Solid fixings required at hinge and lock points. NOTE: When packing, the handle needs to be in the unlocked position, with the door closed on its latch.

TILT & TURN (DAW) INWARD OPENING SASH



- 1. Fit packers to the bottom corner nearest the hinge.
- 2. Fit packers to the top corner (diagonally opposite). Using the glazing shovel placed in the gap between the unit and the top rail of the tilt & turn sash apply pressure on the shovel to lift the whole sash so that it is parallel to the door sash. Place additional packers as required between the sash and the unit to ensure that the sash remains parallel with the door sash.
- **3.** Fit packers in the middle of the tilt & turn sash on the hinge side between the unit and the sash using the glazing shovel (if required) placed between the unit and the sash just above the tilt & turn handle, apply pressure on the shovel to ensure the tilt & turn sash and the door sash are parallel. Place packers as required between the tilt & turn unit to ensure both jambs remain parallel.
- 4. Open, close, lock and unlock the tilt & turn sash to ensure correct operation.
- **5.** Bead up the sash as normal taking care not to dislodge the packers.

ADDITIONAL TYPES

The following sketches indicate the different glazing blocks in different types of windows:





VERTICAL PIVOT



AWNING (W/ FRICTION STAYS)



OFFSET VERTICAL PIVOT









3. ADDITIONAL NOTES



3.1. GLAZING TABLE

In the table below you will be able to look up what glazing bead as well as which inner and outer gasket to use at different glazing thicknesses. Thicknesses marked with (!) have recessed versions of the glazing bead.

FIXED WINDOWS, OUTWARD OPENING WINDOWS AND DOORS

	Glazing bead	Glazing gasket inside	Glazing thickness	Glazing gaske outside	
		080.9126.SY	4 mm		
	030.3617.XX	080.9125.SY	5 mm		
		080.9124.SY	6 mm		
		080.9126.SY	7 mm		
	030.3616.XX	080.9125.SY	8 mm		
		080.9124.SY	9 mm		
		080.9126.SY	10 mm		
	030.3615.XX	080.9125.SY	11 mm		
		080.9124.SY	12 mm		
		080.9126.SY	13 mm		
	030.3614.XX	080.9125.SY	14 mm		
		080.9124.SY	15 mm		
		080.9126.SY	16 mm		
	030.3613.XX	080.9125.SY	17 mm		
		080.9124.SY	18 mm		
		080.9126.SY	19 mm		
	030.3612.XX	080.9125.SY	20 mm		
		080.9124.SY	21 mm	0000114.01/	
		080.9126.SY	22 mm	080.9114.SY	
	030.3611.XX	080.9125.SY	23 mm		
		080.9124.SY	24 mm		
		080.9126.SY	25 mm		
	030.3610.XX	080.9125.SY	26 mm		
		080.9124.SY	27 mm		
		080.9126.SY	28 mm		
	030.3609.XX	080.9125.SY	29 mm		
		080.9124.SY	30 mm		
030.3608.XX	080.9126.SY	31 mm			
	080.9125.SY	32 mm			
		080.9124.SY	33 mm		
	080.9126.SY	34 mm			
	030.3607.XX	080.9125.SY	35 (!) mm		
		080.9124.SY	36 (!) mm		
		080.9126.SY	37 (!) mm		
	030.3606.XX	080.9125.SY	38 (!) mm		
		080.9124.SY	39 (!) mm	1	



Glazing bead	Glazing gasket inside	Glazing thickness	Glazing gasket outside	
030.3200.XX	080.9126.SY	40 (!) mm	000 0114 51	
		41 (!) mm		
	080.9125.SY	42 (!) mm	080.9114.51	
	080.9124.SY	43 (!) mm		

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INWARD OPENING WINDOWS

Glazing bead	Glazing gasket inside	Glazing thickness	Glazing gasket outside
	080.9126.SY	4 mm	
030.3637.XX	080.9125.SY	5 mm	
	080.9124.SY	6 mm	
	080.9126.SY	7 mm	
030.3636.XX	080.9125.SY	8 mm	
	080.9124.SY	9 mm	(
	080.9126.SY	10 mm	
030.3635.XX	080.9125.SY	11 mm	
	080.9124.SY	12 mm	
	080.9126.SY	13 mm	
030.3634.XX	080.9125.SY	14 mm	
	080.9124.SY	15 mm	
	080.9126.SY	16 mm	
030.3633.XX	080.9125.SY	17 mm	
	080.9124.SY	18 mm	
	080.9126.SY	19 mm	
030.3632.XX	080.9125.SY	20 mm	
	080.9124.SY	21 mm	
	080.9126.SY	22 mm	
030.3631.XX	080.9125.SY	23 mm	080.9114.SY
	080.9124.SY	24 mm	
	080.9126.SY	25 mm	
030.3630.XX	080.9125.SY	26 mm	
	080.9124.SY	27 mm	
	080.9126.SY	28 mm	
030.3629.XX	080.9125.SY	29 mm	
	080.9124.SY	30 mm	
	080.9126.SY	31 mm	
030.3628.XX	080.9125.SY	32 mm	
	080.9124.SY	33 mm	
	080.9126.SY	34 mm	
030.3627.XX	080.9125.SY	35 (!) mm	
	080.9124.SY	36 (!) mm	
	080.9126.SY	37 (!) mm	
030.3626.XX	080.9125.SY	38 (!) mm	
	080.9124.SY	39 (!) mm	
	080.9126.SY	40 (!) mm	
030.3197.XX	080.9125.SY	41 (!) mm	
	080.9124.SY	42 (!) mm	
	080.9130.04	43 (!) mm	
030.3196.XX	000 0120 0 4	44 (!) mm	080.9116.04
	080.9128.04	45 (!) mm	



Glazing bead	Glazing gasket inside	Glazing thickness	Glazing gasket outside
	080.9128.04	46 (!) mm	
		47 (!) mm	
020 2106 XX		48 (!) mm	
030.3196.88	080.9126.51	49 (!) mm	
	080.9125.SY	50 (!) mm	080.9114.SY
	080.9124.SY	51 (!) mm	
	080.9126.SY 52	52 (!) mm	
030.3621.XX	080.9125.SY	53 (!) mm	
	080.9124.SY	54 (!) mm	

OUTSIDE GLAZED FIXED WINDOWS

Glazing gasket inside	Glazing thickness	Glazing gasket outside	Glazing bead			
	4 mm	- 080 9120				
-	5 mm	000.7120				
_	6 mm	- 080 9118 04	- 030.3899.XX			
080 9128 04 -	7 mm	000.7110.04				
	8 mm	- 080 9116 04		030.3079.84		
-	9 mm					
-	10 mm	- 080.9114.SY				
	11 mm					
080.9130.04	12 mm	- 080.9120.04				
080.9128.04	13 mm	2007.2000				
080.9130.04	14 mm	- 080,9118.04				
080.9128.04	15 mm					
080.9130.04	16 mm	- 080.9116.04	030.3898.XX			
080.9128.04	17 mm					
080.9130.04	18 mm	_				
080 9128 04 -	19 mm	080.9114.SY				
000.7120.04	20 mm					
080.9130.04	21 mm	- 080 9120 04				
080.9128.04	22 mm	000.7120.04				
080.9130.04	23 mm	080 9118 04				
080.9128.04	24 mm	000.9110.04				
080.9130.04	25 mm	080 9116 04	030.3897.XX			
080.9128.04	26 mm	000.9110.04				
080.9130.04	27 mm					
080 9128 04	28 mm	080.9114.SY				
000.7120.04	29 mm					
080.9130.04	30 mm	080.9120.04				
080.9128.04	31 mm	060.9120.04				
080.9130.04	32 mm	080.0118.04				
080.9128.04	33 mm	080.9118.04	020 2006 88			
080.9130.04	34 mm	000.0116.07	030.3896.XX			
080.9128.04	35 mm	- 080.9116.04				
080.9130.04	36 mm					
	37 mm	-				
080.9128.04	38 mm	— 080.9114.SY				
-	39 mm		030.3895.XX			

HIDDEN VENT WINDOWS

Profile	Glazing gasket inside	Glazing thickness	Glazing gasket outside	
	080.9120.04	12 mm	080.9130.04	
		13 mm	080 9128.04	
		14 mm		
		15 mm		
		16 mm		
		17 mm	0000106 57	
005.2504.88	080.9118.04	18 mm	080.9126.51	
		19 mm		
	0000116.04	20 mm		
	080.9116.04	21 mm	080.9125.SY	
	0900114 5V (*)	22 mm	080.9126.SY	
	080.9114.31 (*)	23 mm	080.9125.SY	
	080.9118.04	24 mm	080.9128.04	
		25 mm	000 0126 57	
		26 mm	080.9126.51	
		27 mm	080.9125.SY	
005.2505.88	000011604	28 mm	080.9126.SY	
	080.9116.04	29 mm	080.9125.SY	
	0900114 5V (*)	30 mm	080.9126.SY	
	080.9114.31 (*)	31 mm	080.9125.SY	
	080.9118.04	32 mm	080.9128.04	
		33 mm	080.9126.SY	
		34 mm		
		35 mm	080.9125.SY	
005.2502.XX		36 mm	080.9126.SY	
	080.9116.04	37 mm	080.9125.SY	
		38 mm	080.9126.SY	
	0000114 CV (*)	39 mm	080.9125.SY	
	000.9114.51 (*)	40 mm	080.9124.SY	







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REYNAERS INC.

21430 N 15th Ln, Ste 100 · Phoenix, AZ 85027 t (480) 272-9688 · f (623) 455-9146 www.reynaers.us · info@reynaers.us