





INSTALLATION RECOMMENDATIONS

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INSTALLATION RECOMMENDATIONS

General

These recomendations regulate the installation of elements by the fabricator or the installation firm. If the elements are distributed via dealers, DIY centres, etc., attention has to be drawn to these recommendations. Additional information can be obtained from The British Plastics Federation Code of Practice documents and BS8213-4:2007-Code of Practice for the survey and installation of windows and external doorsets.

Transportation

When transporting the elements they must be protected against damage caused by slippage, distortion, twisting or bowing. Soft interlayers should be used to prevent windows lying directly against each other. Packaging that completely encloses the window may cause a build up of heat. In this situation sealed transparent foils must not be used with coloured windows. The packaging must have no adverse effect on the quality of the element.

Storage

Windows stored on a construction site should be on a firm base of timber battens and protected from soiling. Elements must be protected against direct sunlight using tarpaulin or other similar material.

Installation Preparation

Clearance to proceed with the installation work must be obtained from the customer. The going-in allowance must be adhered to.

Fitting

Where possible it is recommended that installation of bay assemblies are completed working from one side of the opening to another, installing the frame and supports sequentially to allow clearance.

Care should be taken to ensure that installations are perfectly level, vertically plumb and correctly aligned. The fabricator must notify the customer in writing of any deviation from these regulations. Failure to do so may invalidate the guarantee.

Jacking Posts

If jacking posts are used the sill should be pre-drilled with approximately 20mm (or as specified by jack supplier) to allow access. Jacking posts should be installed in accordance with manufacturers recommendations and sills should be adequately sealed to ensure that no water can penetrate the reinforcement chamber of the sill.

If no jacking post is used it is essential that the assembly is correctly packed from top to bottom ensuring the load is transferred through the sill in accordance with British Plastics Federation Code of Practice documents and BS8213-4:2007-Code of Practice for the survey and installation of windows and external doorsets.

Fixings

All anchoring materials must be protected against corrosion, be suitable for the building fabric and able to withstand the stresses transmitted.

Due to thermal expansion fixings must be at least 200mm externally - or 150mm internally - from any weld or joint. To spread the load the fixings should, if possible, be positioned close to the hinges.

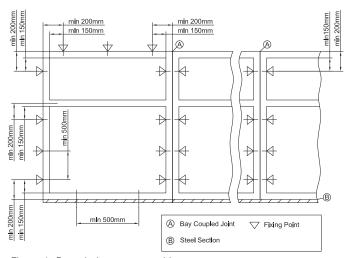


Figure 1: Bay window screw positions

Masonry Union

The joint between elements and masonry must contain a foam sealing strip, polyethylene foam or similar material to act as a backing for the pointing mastic. If thermal or sound insulation is critical then the joint can be completely filled with mineral or sound insulation wool. Filling the gaps with mortar or plaster is not permissible. If foam filling is to be used, the manufacturer's instructions must be carefully read and strictly adhered to. The foam must be compatible to the frame material and the sealing mastic. REHAU-PU foam Art. No. 257371 is recommended. Contact with any coloured or foiled surface must be avoided. Areas of cured PU foam must not remain exposed to the atmosphere. Bituminous materials must not be used for these joints. Windows should be attached by fixing bolts, not fixing brackets, if foam filling is to be applied to the areas between the elements and building fabric.

Sealing Bay Trims

Silicone sealant should be used to form a seal when installing internal and external bay cover trims. To ensure water tightness, sealant should also be applied behind the internal cap where it meets the sill. In the instance of the 90° Corner post a radius of silicone (matching profile colour) should be applied full height between frames.

Sealant must be compatible with the frame material. The mastic manufacturer's instructions should be observed. If a damp proofing membrane has been specified, construction must be carried out in accordance with the prevailing circumstances and the architect or surveyors specifications.

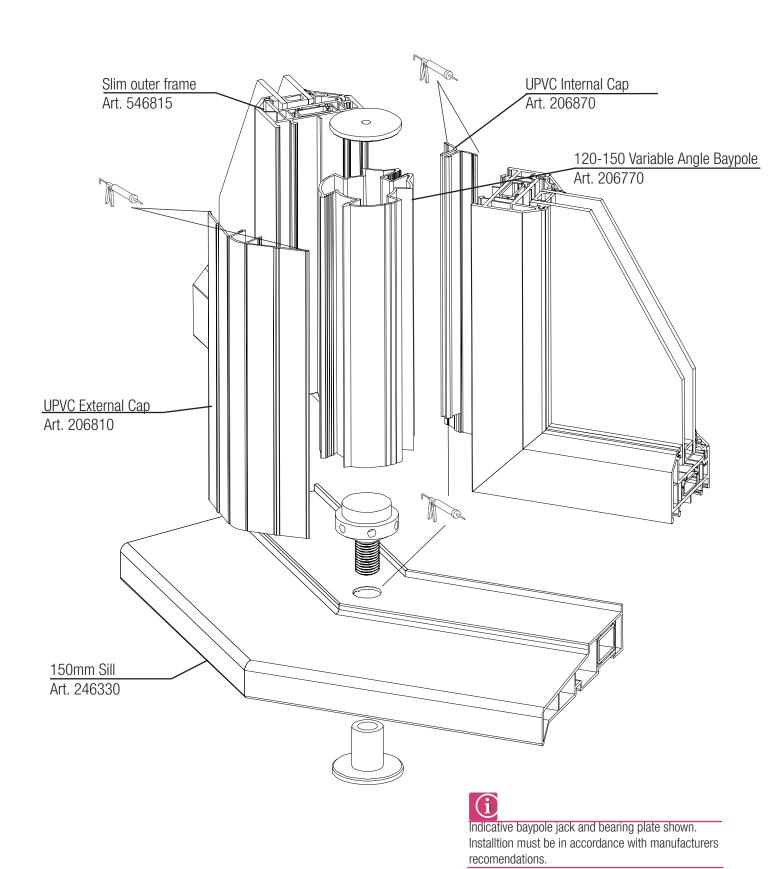
Cleaning and Acceptance

The elements should be cleaned up after installation and accepted by the customer.

Failure to do so may result in later complaints about dirt or damage. REHAU special cleaner Art. No. 252190 can easily clean the elements as can normal domestic washing up liquids in luke-warm water. The use of abrasive cleaners and particularly solvents such as acetone, cellulose thinners, etc. must be avoided, as the surface will be degraded. Where soiling is of a strong greasy or oily nature, special cleaners can be used. Details of cleaning agents that have been tested by REHAU can be obtained from the Technical Applications Department.

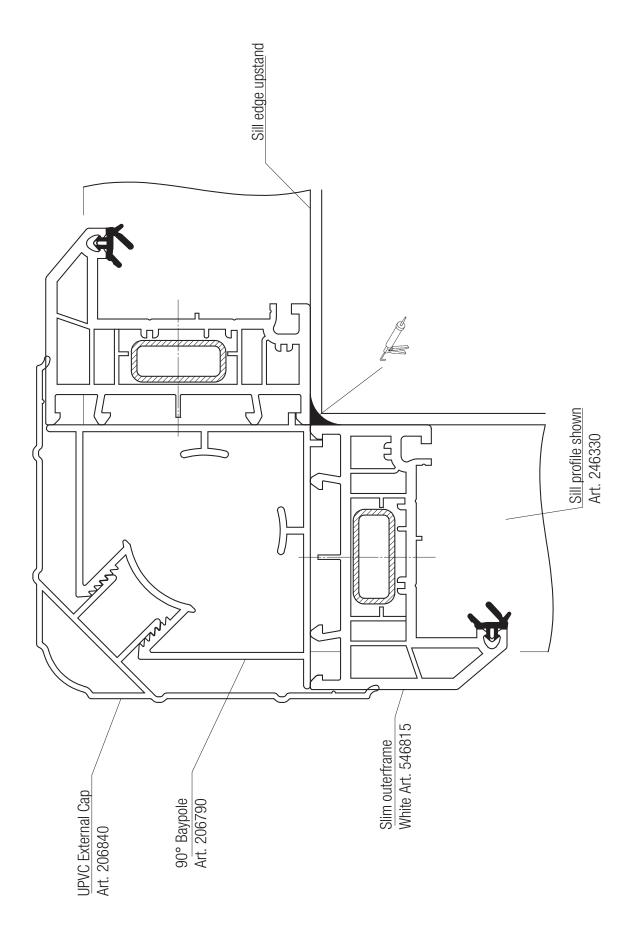
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INSTALLATION RECOMMENDATIONS



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ASSEMBLY & DEDUCTIONS - 90° FIXED ANGLE

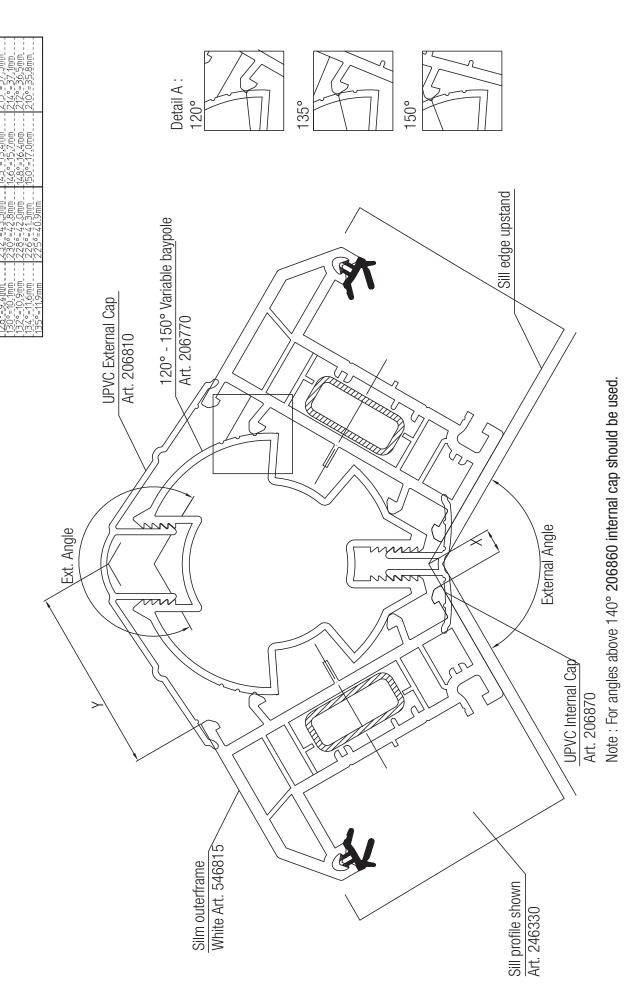


External Angle Detail A: 120° Sill edge upstand External Angle Internal Angle 100° - 120° Variable Baypole 2°=66.5mm 4°=65.9mm Art . 206780 Note: for angles below 110° 206870 internal cap can be used. 100°=16.7mm 102°=11.5mm 104°=12.3mm 5°=12.74mm 6°=13.1mm Internal Angle Ext. Angle ASSEMBLY & DEDUCTIONS - 100° - 120° VARIABLE ANGLE REHAU TOTAL70 BAYPOLE SYSTEMS ww UPVC Internal cap Art. 206860 **UPVC** External Cap White Art. 546815 Sill profile shown Art. 246330 Art. 206830 Slim outerframe

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Internal Angle External Angle Internal Angle External Angle

ASSEMBLY & DEDUCTIONS - 120° - 150° VARIABLE ANGLE

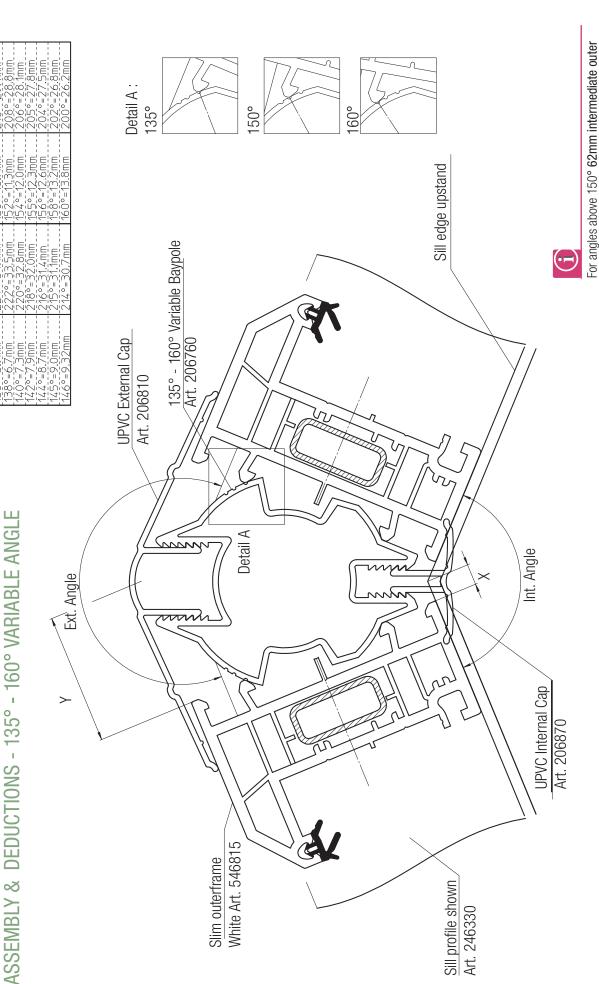


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External Angle Internal Angle External Angle

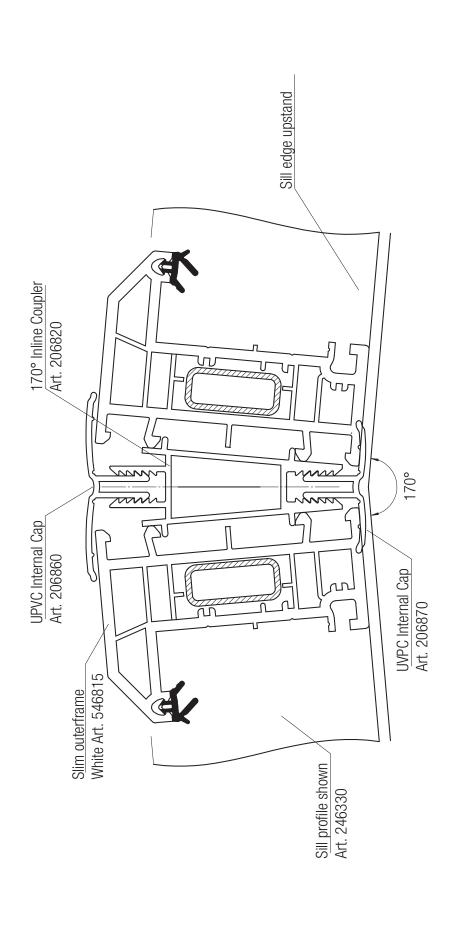
Internal Angle

ASSEMBLY & DEDUCTIONS - 135° - 160° VARIABLE ANGLE



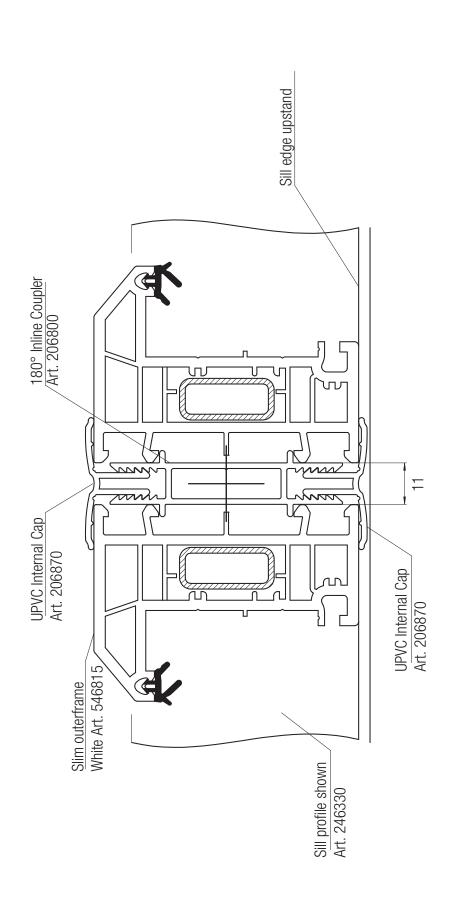
frame should be used too when opening sashes are required to ensure clearance

ASSEMBLY & DEDUCTIONS - 170° FIXED





ASSEMBLY & DEDUCTIONS - 180° FIXED



INSTALLATION RECOMMENDATIONS



The table below outlines allowable compressive loads for the baypole in isolation.

Article		206790	206780	206770	206760
1200mm	Allowable Stress (N/mm²)	65	65	59	50
	Max. Load (KN)	39.0	43.3	34.6	22.6
	Max. Tonnes (Tonnes/Pole)	3.97	4.42	3.53	2.31
1500mm	Allowable Stress (N/mm²)	59	60	49	33
	Max. Load (KN)	35.4	40	28.8	14.9
	Max. Tonnes (Tonnes/Pole)	3.61	4.08	2.93	1.52
1750mm	Allowable Stress (N/mm²)	53	55	36	23
	Max. Load (KN)	31.8	36.7	21.1	10.4
	Max. Tonnes (Tonnes/Pole)	3.24	3.74	2.15	1.06
2100mm	Allowable Stress (N/mm²)	40	43	26	-
	Max. Load (KN)	24	28.7	15.3	-
	Max. Tonnes (Tonnes/Pole)	2.45	2.92	1.55	-



The table below outlines allowable compressive loads for baypoles when using corresponding jack kits referenced.

Article		206790	206780	206770	206760
Cap Design Ltd Jack Ref:		Kit For: 206790	Kit For: 206780	Kit For: 206770	Kit For: 206760
1200mm	Max. Tonnes (Tonnes/Pole)	3.0	3.0	3.0	2.0
1500mm	Max. Tonnes (Tonnes/Pole)	3.0	3.0	2.9	1.5
1750mm	Max. Tonnes (Tonnes/Pole)	3.0	3.0	2.2	1.1
2100mm	Max. Tonnes (Tonnes/Pole)	2.4	2.9	1.5	1.0

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London The Building Centre 26 Store Street London WC1E 7BT	Slough Units J & K Langley Business Centre Station Road Langley, Slough SL3 8DS	Manchester Brinell Drive Irlam Manchester M44 5BL	Glasgow Phoenix House Phoenix Crescent Strathclyde Business Park, Bellshill, North Lanarkshire, ML4 3NJ	Dublin 9 St John's Court Business Park Swords Road Santry Dublin 9, Eire	
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