



Vid	eo on Youtube: <u>Click here</u>	<u>!</u>	30.03.15
Sta	andard Operation F	Procedures – Muntin Bar Mounting	
1	Check window bars from your supplier before using them for flatness, pressure marks on the liner, liner lifting and accurate sealing lips. Do not use defective parts of the profile.	<image/>	Concavit y
		Lifting the release film and pollution of add	
2	Avoid the liner flagging off at the edges and pollution of the adhesive during your cutting or grooving process. Cut through the liner first for best results. Change the saw blade.	Lifting the release film and pollution of adh	
3	Verify the good fit of the pre-cut part into the window frame before removing the liner. Leave		





	a gap at each end.# The minimum gap of 0,25mm works for parts of short length. Calculate the extension gap with help of the table for integration temperatures if you are working with longer parts. (see Video example and attachment) If the parts are too long, do not push in by force but re-work the length.	wrong Tilting of the Profile. No Contact of the adhesive to the glass through overlapping sealing lips results in an unstable adhesion.
4	Wait until the window has reached shop floor temperature in order to avoid condensation water on the glass. The minimum application temperature is 15°C.	Application temperature: optimum temperature = 25°C Minimum temperature = 15°C) minimum temperature = 15°C Windows and profiles must have the same application temperature. Before using them store both materials for 12 hours in the same room.
5	Use isopropanol or an Industry Cleaner for example Tesa Industrial Cleaner. Use clean towels in order to clean the window glass from dust and grease. Let dry off 30 seconds.	Glass cleaning: Remove residues for secure adhesion Image: Cleaning: Cleaning: Cleaning: Cleaning and cleanin
6	For positioning	Positioning: for long profiles, glue the ends first





	of long window bars, remove a small piece of liner at each end of the part. Use a distance piece in order to ensure a gap to the frame. Place on the window pane and pull the liner out off the gap. Then apply pressure by hand. Attention: Through permanent change of lengths and adhesion failures the adhesive strength may be reduced, and profiles tend to lift from the glass.	If bars are cut too long o lifting take-up must be ar In regions with permane each end of the profile o
7	Apply pressure to the window bar by the heel of the hand. Start at one end and push strongly each 10 cm until the other end Or use a pressure roller like shown in the picture	Adhesion: Figure 2 and
8	Let the adhesive dwell to the glass for 24 hours before shipment or outdoor storage.	Rest period after bondin



or profiles are not cut free, the adhesive does not glue at the end. A avoided.

ent changing climatic conditions, the use of an MS Polymer glue at or a high performance adhesive like ACX-Plus can be usefull.





closed metal inserts should be existent to stabilize the glass. Itiple glazing the glass pane may be thinner than usual. acting pressure the glass draws back and results in an unstable

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Attachment – Calculating the extension gap



Calculate the extension gap for each end with help of the table for integration temperatures. The value **0.084** is the coefficient for extension in this formula. **Delta*t** is the difference in temperature, of an integration temperature to the highest temperature in the summer.

LENGTH			INTEGRAT	ION TEMPE	RATURE [C	:°]	
IN METER	5	10	15	20	25	30	35
0.5	1.6	1.5	1.4	1.3	1.2	1.1	0.9
1	3.2	2.9	2.7	2.5	2.3	2.1	1.9
1.5	4.7	4.4	4.1	3.8	3.5	3.2	2.8
2	6.3	5.9	5.5	5.0	4.6	4.2	3.8
2.5	7.9	7.4	6.8	6.3	5.8	5.3	4.7
3	9.5	8.8	8.2	7.6	6.9	6.3	5.7
3.5	11.0	10.3	9.6	8.8	8.1	7.4	6.6
4	12.6	11.8	10.9	10.1	9.2	8.4	7.6
De	elta*t	: 35	°C -	15°(C = 2	20	

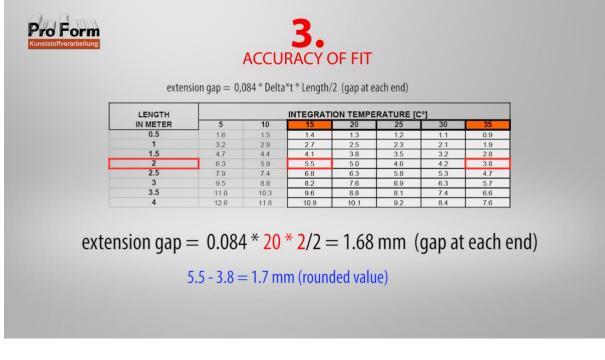
Example: An integration temperature of 15°C and a maximum temperature of 35°C in the summer, results in the value 20 for Delta*t.





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2.5	7.9	7.4	6.8	6.3	5.8	5.3	4.7
3	9.5	8.8	8.2	7.6	6.9	6.3	5.7
3.5	11.0	10.3	9.6	8.8	8.1	7.4	6.6
4	12.6	11.8	10.9	10.1	9.2	8.4	7.6
3.5							

Example: With a part of 2m length this results in an extension gap of 1.68mm at each end.



Example: As an alternative use the extension values of the table for your calculation. For our example this results in the rounded value of 1.7mm at each end.