tesa® ACXplus – Intelligent Bonding for the Partition Wall Industry

Constructive Bonding Solutions with tesa® ACXplus

APPLICATION FOLDER

tesa® ACX^{plus} – Bonding Solution for Partition Walls
clean, fast & optimal aesthetic design

Today's modern construction design utilize a variety of transparent materials, rendering crisp and clean finishes. This is especially true with the glass partition wall industry where manufacturers are tasked with producing aestetically pleasing yet functional wall units.
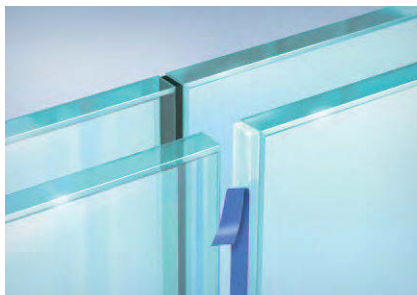
Recognizing this need, tesa has developed an innovative product family: tesa® ACX^{plus}. This new category of double sided tapes consists of a high performance acrylic system that can outperform most conventional fastening methods like silicone or liquid glue.

For each application within the partition wall industry, we offer you the right solution:

If high transparency is required, we recommend our ultra transparent tesa® ACX^{plus} family which creates an invisible bond on many different substrates such as glass, polycarbonate, aluminum and many more. This product is uniquely designed for slim designs where glass-to-glass applications come into play.

We also offer a black tape for sleek, sophisticated bonding. We invite you to learn more about our assortment and the variety of solutions.

Glass-to-Glass Bonding

Edge-to-Edge Bonding

Bonding glass panels to one another in order to achieve an invisible appearance and prevent the panels from drifting apart.

Corner Attachment

Bonding glass panels with a 45° angle in order to have an invisible and optically clear corner.

T-Block Attachment

Bonding room dividers.

→ **tesa® ACX^{plus} 7056 or 7058 – highly transparent tape**
→ **tesa® ACX^{plus} 7076 or 7078 – dark black tape**

- High initial tack on glass
- Viscoelastic tape is able to compensate for unevenness
- Excellent resistance against UV, temperature, humidity and chemicals
- Reliable and durable bond for decades
- Complete seal mitigating noise and smell transfer

Glass on Aluminum Frame

Bonding glass or laminated wood into or onto an aluminum frame for fast and easy construction and an optimal appearance of the partition wall.

➜ tesa® ACX^{plus} 7055 – highly transparent tape
➜ tesa® ACX^{plus} 7074 – dark black tape

▪ High bonding strength on glass, laminated wood and aluminum
▪ Viscoelastic core can compensate different thermal elongation of bonded parts
▪ Products are certified & tested by TÜV Rheinland, ift Rosenheim, MPA Stuttgart and CSTB in France
▪ Outstanding temperature and aging resistance
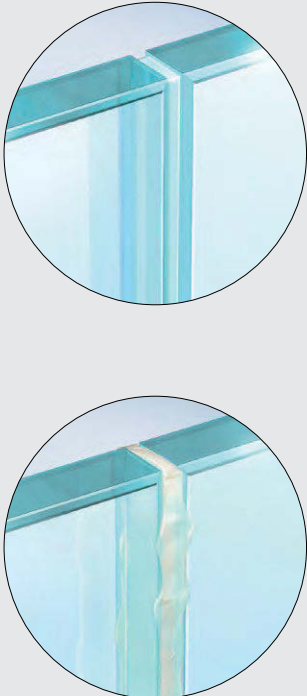
Glass on H-Profile

Bonding a slim and nearly invisible H-Profile between two glass panels.

➜ tesa® ACX^{plus} 7054 – highly transparent tape

▪ Easy adjustment of tolerances
▪ Good noise damping effect
▪ Visco-elastic tape is able to compensate tolerances and unevenness in bonded materials
▪ Improving the quality and value of your profile with a tesa® branded liner

Benefits – tesa® ACXplus vs. silicone

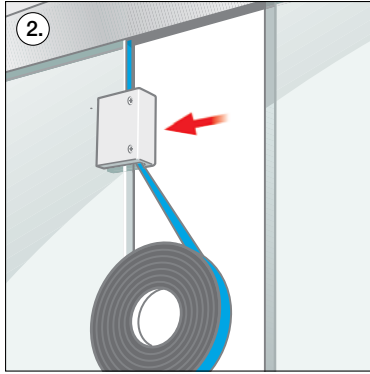|	Description	Details
	Immediate bonding, no drying process	■ fast and efficient production – saves time ■ faster processing and transport/storage possible
	Clean production process	■ clean production site ■ healthy working environment ■ no unpleasant smell
	No squeezing at bonding area	■ less rework ■ optimal aesthetic design
	Constant thickness of bonding area	■ accurate and stable production process ■ better quality of end product
	Invisible bonding	■ mounting of transparent materials ■ no yellowing over time / resistance to UV light & chemicals
	No application tools needed	■ no need to carry additional tools ■ less investment costs

Technical data

tesa® ACXplus Family	tesa® ACXplus Product	Thickness without liner [µm]	Construction	Colour	Liner*	Adhesion [N/cm] after 72h dwelling time			
						Steel	**PMMA**	**Aluminum**	**Glas**
705x High Transparency	tesa® 7054	500	solid pure acrylic	transparent	PV 22, PV 24	19	12	19	17
	tesa® 7055	1000				24	17	24	24
	tesa® 7056	1500				27	19	24	26
	tesa® 7058	2000				29	22	24	28
707x High Resistance	tesa® 7074	1000	foamed pure acrylic	black	PV 22, PV 24	30	15	25	32
	tesa® 7076	1500				35	19	28	36
	tesa® 7078	2000				40	23	32	40

* PV 22: PE coated paper liner – tesa® ACXplus branded, PV 24: HDPE filmic liner blue
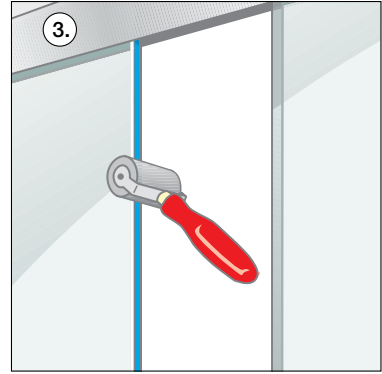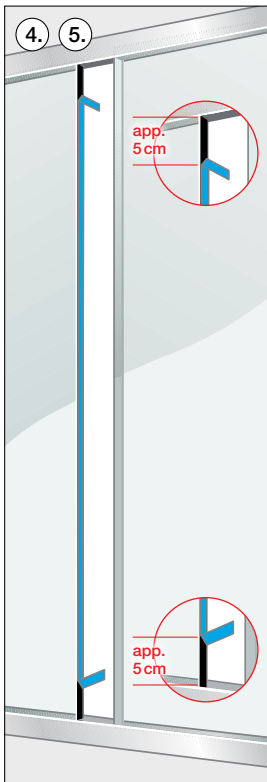
1. Clean glass edges with pure alcohol (Isopropanol/Ethanol), free of any additives.
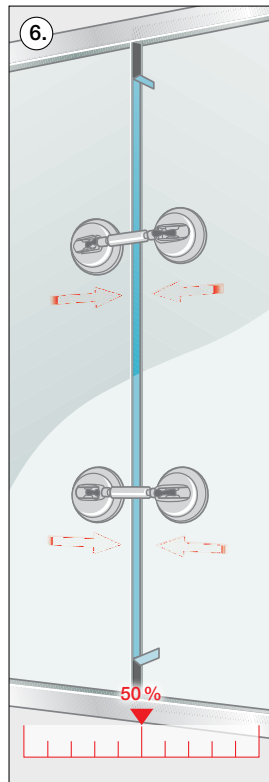
2. Apply the tape to one edge of the glass. By using the tesa® edge applicator a straight line and quick assembly will be assured.
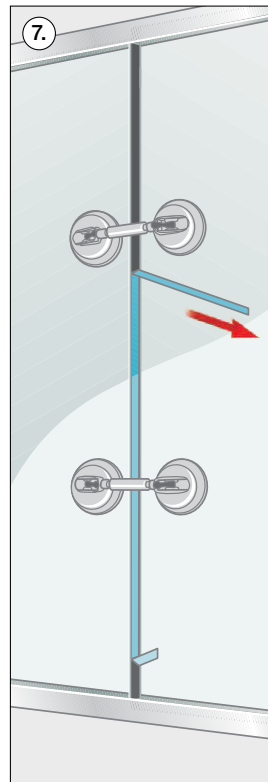
3. Pressure is essential for good adhesion performance and to avoid air bubbles. For optimal results we recommend a uniform pressure during application e.g. by a pressure roller.
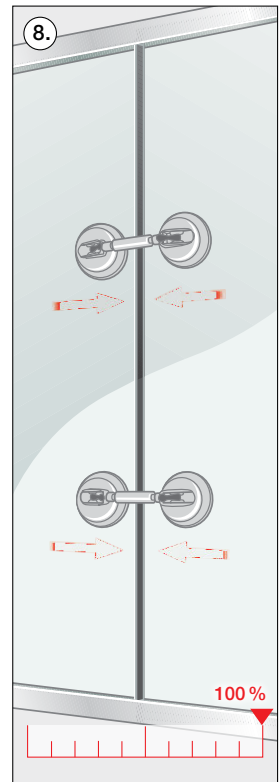
app. 5 cm

app. 5 cm

50 %

100 %

4. Remove approximately 5 cm of the Liner at the bottom and the top and turn it to the back side.

5. Slide the glasses together and adjust vertical fitting of both glass walls.

6. Join the glass panels together by using medium force of the vacuum device before removing the liner.

7. Remove Liner carefully and avoid any stretching of the tape.

8. Final adjustment of force to reach optimal bonding results of both glass edges.

Excellent quality and global support for the Partition Wall Industry

With over 50 subsidiaries tesa SE is present in 100 countries to market its products. Our trusted portfolio of more than 7,000 products is subject to the strictest quality controls and certifications. To best serve our customers all around the globe, our comprehensively certified products are stocked by regionally managed warehouses that guarantee rapid and reliable delivery.

Based on over 75 years of experience in the production of self-adhesive tapes and system solutions, tesa prides itself in having an in-depth understanding of its customer processes and needs in order to provide high class technical support and to select the best solution for your application.

Further Information Material

For more detailed information regarding tesa® ACX^plus, please refer to the following Information material or contact your local tesa sales representative.

- tesa® ACX^plus Products & Applications
- tesa® ACX^plus Products & Hints and Tips for the right tape application
- tesa® ACX^plus Complementary Assortment
- tesa® ACX^plus Application Guideline for Glass Partition Walls

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HEADQUARTERS

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The tesa management system is certified according to the standards ISO 9001 and ISO 14001.