

CI/SfB	(31)	Zt4
CAW P10		
Uniclass L675:P91		

Description

TP654 is an impregnated, pre-compressed multi-functional window sealing tape based on 2 new technologies:

1. A 3-layer foam structure: the grey foam is an airtight closed cell foam which provides a 100% secure airtight connection to the window frame and the wall. The black foam has a slow recovery time which allows a successful installation.
2. An airtight layer is inserted inside the tape, connecting the grey foam and the black foam from the top to the bottom. Combined, these 2 technologies provide a high-performance sealing level with a driving rain resistance up to 1050 Pa and an airtightness level more than double the requirements.

Packaging

Tapes width (mm)	Ranges (mm) 1050 Pa	Roll length	Rolls/box	m/box
58	6-15	11.5	5	57.5
66	6-15	11.5	4	46
72	6-15	11.5	4	46
77	6-15	11.5	3	34.5
83	6-15	11.5	3	34.5
88	6-15	11.5	3	34.5
58	10-25	8	5	40
66	10-25	8	4	32
72	10-25	8	4	32
77	10-25	8	3	24
83	10-25	8	3	24
88	10-25	8	3	24

Technical Information

Property	Test Method	Result
Type Classification	DIN 18542	MF1
Driving Rain Resistance	DIN EN 1027	1050 Pa for ranges 6-15 & 10-25
Air Permeability	DIN EN 12114	$\alpha < 0.05 \text{ m}^3/[\text{h} \cdot \text{m} \cdot (\text{daPa})\text{n}]$ for ranges 6-15 & 10-25 $\alpha < 0.1 \text{ m}^3/[\text{h} \cdot \text{m} \cdot (\text{daPa})\text{n}]$ for ranges 6-20 & 10-30
Thermal Conductivity	DIN 52612	$\lambda = 0.045 \text{ W/m/K}$ Window frame thickness: 60 mm 0.75 W/(m ² K) 70 mm 0.64 W/(m ² K) 80 mm 0.56 W/(m ² K) Coefficient U:
Acoustic Insulation	DIN EN ISO 717-1	60 dB
Sd Value	DIN EN ISO 12572	$\alpha < 0.5 \text{ m}$ Variable sd value
UV Resistance	DIN 18542	Given for ranges 6-15 & 10-25
Flammability Class	DIN 4102	B1
Emission Classification		EC1+
Compatibility with Construction Materials	DIN 18542	Given
Temperature Resistance		-30°C to +80°C
Storage		Store rolls horizontally and in original carton between +1°C and +20°C in dry conditions and away from direct sunlight. Re-seal packaging between use to prevent expansion during storage
Shelf Life		12 months when stored in its original unopened containers



TP654

illmod TRIO 1050

Usage / Purpose

TP654 multi-function tape is used for sealing the perimeter joints of windows and doors against driving rain and provides a high level of airtightness, thermal and acoustic insulation. Due to its high-performance level TP654 can fulfill the airtightness classification for passive houses.

Key Benefits

- High raintight and airtight performance level
- Easy application: the tape can be installed either way around due to its variable Sd value.
- Secure airtight installation on the window frame and the wall due to its 3-layer foam structure
- Suitable for joints between 6 - 25 mm wide using only two sizes of TP654

Usage Guidelines

- After measuring the width of the joint and ensuring the total movement is within the capacity of the selected tape size, application may proceed.
- Remove any contamination or mortar residue from reveal. Any areas where significant undulations or damage is present should be repaired locally using an appropriate mortar.
- Remove outer release liner and cut the first 20 mm at the start of the roll. Unroll the tape without stretching it.
- Apply the tape to the outer edge of the window frame, recessed back from the external frame face by 1-2 mm, applying a separate length for each side to be sealed (Fig. 1).
- Install vertical joints from the bottom to the top.
- In the corners, do not continue around, but cut the tape and butt the ends perpendicularly (Fig. 2).
- The window is then immediately installed into the opening and fixed through the frame.
- We recommend to seal the corners with an illbruck sealant such as SP525 or SP025.

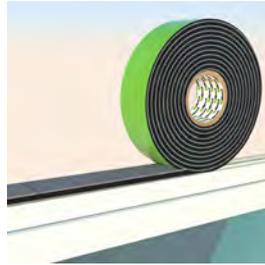


Figure 1

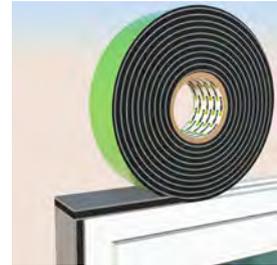


Figure 2

Please Note

- The compatibility of sealants, other than illbruck, must be tested.
- The tape must not come into contact with chemicals containing solvents or corrosive substances.
- High temperatures accelerate tape expansion, while low temperatures delay this.

Health & Safety Precautions

Safety data sheet must be read and understood before use.



Technical Service

Tremco CPG UK Limited has a team of experienced Technical Service Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Service on 01942 251400.

Guarantee / Warranty

Tremco CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in

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