

## Technical Data Sheet

# TP654

## ILLMOD TRIO 1050

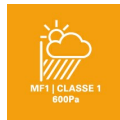
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### Description

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

1. A 3-layer foam structure.
2. An airtight layer is inserted inside the tape, connecting the foam layers.

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.



### Features and 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
- Airtight film with a variable sd value fulfilling the RAL principle 'variable water vapour permeability'

### Usage Purpose

TP654 multi-functional 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.

### 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

1 year when stored in its original unopened containers.

### Available Colour

Anthracite with grey foam on top

### Standard Sizes

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Dimensions in mm	Item-No.	Roll length	Rolls per box	Rolls per box	Description
Roll width mm	Application range from...to...mm durable UV-resistance	Application range from...to...mm limited UV-resistance	Roll length in meter	Rolls per box	Meter per box
58	6-15	6-20	11,5	5	57,50
66	6-15	6-20	11,5	4	46,00
72	6-15	6-20	11,5	4	46,00
77	6-15	6-20	11,5	4	46,00
83	6-15	6-20	11,5	3	34,50
88	6-15	6-20	11,5	3	34,50
58	10-25	10-30	8	5	40,00
66	10-25	10-30	8	4	32,00
72	10-25	10-30	8	4	32,00
77	10-25	10-30	8	4	32,00
83	10-25	10-30	8	3	24,00
88	10-25	10-30	8	3	24,00

## Technical Characteristics

Building Classification	DIN 4102	B1, self-extinguishing
Driving Rain Resistance	EN 1027	1050 Pa for ranges 6-15 & 10-25
Exposure Class For Impregnated Foam Tapes	DIN 18542	MF1 (ranges 6-15 & 10-25 mm)
Air Permeability	DIN 18542	$a < 0,05 \text{ m}^3 / [\text{h} \cdot \text{m}^2 \cdot (\text{daPa})^n]$ requirement according DIN 18542 $a < 0,1 \text{ m}^3 / [\text{h} \cdot \text{m}^2 \cdot (\text{daPa})^{2/3}]$
Thermal Conductivity	DIN EN 12667	$\lambda_{10} < 0.045 \text{ W/m}\cdot\text{K}$
Acoustic Insulation	DIN EN ISO 717-1	up to 60 dB
Uv Resistance	DIN 18542	given: durable for ranges 6-15 and 10-25 mm
U-Value: Window Construction Depth 60mm		0,8 W/(m <sup>2</sup> ·K)
U-Value: Window Construction Depth 70mm		0,7 W/(m <sup>2</sup> ·K)
U-Value: Window Construction Depth 80mm		0,6 W/(m <sup>2</sup> ·K)
Sd-Value	DIN EN ISO 12572	< 0,5 m
Compatibility With Construction Materials	DIN 18542	The requirements of the DIN EN standard are met for class MF1, compatibility with plasticizers and solvent must be tested.
Service Temperature		-30°C to +80°C
Storage Temperature		+1°C to +20°C
Certifications	GEV	EC 1 PLUS

## Areas Of Application

TP654 multi-functional 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.

## Application

Select the tape dimensions according to the table after determining the window frame depth and joint width. The tape should be selected so that the roll width (joint depth) is at least equal to the tape thickness (joint width) in service.

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Remove any contamination or mortar residue from the reveal. Any areas where significant undulations or damage is present should be repaired locally using an appropriate mortar.

Prior to applying from a new roll, cut off the wedge shaped section at the start of the roll.

For the bottom seal under the window sill, we recommend illbruck I-MEMBRANE. Please refer to the corresponding data sheets.

Apply the tape to the head and two sides of the window, with the head application to full opening width and the sides tightly butting up to the underside of the head

application .

- The window can be fixed either through the frame or by using fixing lugs/ brackets.

**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.

**i3 Warranty**

"i3" Window Sealing System:

The guarantee applies to the building owner with regard to airtightness, driving rain tightness and the insulating filling of the window joint.

If the system does not fulfil these properties, Tremco CPG will accept the replacement costs for the first 5 years after delivery of the product to the installer, at 100%. From the 6th-8th year 60% and from the 9th-10th year 20%. The building owner must notify Tremco CPG of the completion of the installation work within 1 month and to submit the delivery notes for the i3 products.

The detailed warranty conditions and documents are available on request.

**Guarantee / Warranty**

Add local Guarantee / Warranty and Disclaimer

**Health And Safety Precautions**

Safety data sheet must be read and understood before use.

**Technical Service**

Tremco CPG has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call your local Customer Services.

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**Certification**

