CONTEGA® FIDEN EXO

Expanding joint-sealing tape, for exterior use



Technical data

	Material
Main component	Open-cell polyurethane flexible foam with polymer impregnation

Property	Regulation	Value
Colour		Anthracite
sd value		< 0.5 m
g value		< 2.5 MN·s/g
Vapour permeance	ASTM E 96	> 6.56 US perms
Reaction to fire classification	DIN 4102	B1, P-NDS04-1001
Weather resistance	DIN 18542	Passed
Resistance to driving rain	EN 1027	Requirements fulfilled up to 600 Pa
Joint permeability	EN 1026	a < 1.0 m³/[(h·m·(daPa)n]
Loading group	DIN 18542	BG1
Can be plastered/painted over		Yes
Application temperature		Above +1 °C ; 34 °F
Temperature resistance, permanent		-30 °C to +90 °C ; -22 °F to 194 °F
Storage		Lying flat, cool and dry, 1 °C to 20 °C ; 34 °F to 68 °F, 12 months
Compatibility with conventional construction materials	DIN 18542	Yes

Areas of application

Pre-compressed, expanding tape for external sealing of joint gaps around windows and doors in a manner that is diffusion-open and resistant to driving rain. This particularly weather-resistant tape has a self-adhesive surface on one side for easy installation.

Supply forms

Art. no.	Joint width	Length	Width	Weight	Sales unit	Container	GTIN
15547	2-3 mm	10 m	10 mm	0.119 kg	30	2880	4026639155474
1AR05189	2 mm ; 1/16"	10 m	15 mm	0.22 kg	20	1920	4026639251893
15549	3-6 mm	8 m	12 mm	0.142 kg	25	2400	4026639155498
15550	3-6 mm	8 m	15 mm	0.214 kg	20	1920	4026639155504
1AR05195	5-7 mm ; 3/16"-1/4"	4.3 m	15 mm	0.265 kg	20	1920	4026639251954
1AR05197	5-7 mm ; 3/16"-1/4"	4.3 m	20 mm	0.35 kg	15	1440	4026639251978
15555	7-12 mm	4.3 m	20 mm	0.289 kg	15	1440	4026639155559
1AR05203	9-14 mm ; 3/8"-9/16"	6.5 m	20 mm	0.822 kg	15	480	4026639252036
15557	10-18 mm	2.6 m	20 mm	0.341 kg	15	1440	4026639155573

Advantages

- ✔ Permanent sealing of joint gaps thanks to extremely high resistance to weathering
- ✔ Fulfils the highest requirements: BG1 quality and fire rating B1, P-NDS04-1001
- ✔ Ensures dry building structures: resistant to driving rain and diffusion-open
- ✔ Large range of sizes available to seal all typical gap widths

Substrates

Clean any loose dust and dirt from the joint. The masonry may need to be levelled with a smooth plaster finish if there are pores, roughness, different heights or mortar joints etc. present. Subsurfaces must be sufficiently pressure-resistant and must be non-absorbent. Smooth, parallel and level subsurfaces are critical to achieve a proper seal. Clean the sides of the window frames.

Adhesion is not possible on frozen surfaces. There must be no water-repellent substances (e.g. grease or silicone) on surfaces where adhesives are to be applied. Subsurfaces must be sufficiently dry and stable; if necessary, subsurfaces should be stabilised or renewed.

Good adhesion is achieved on planed and painted timber windows and on plastic windows. Surfaces should not be finished in a water-repellent manner.

Particular care is necessary when working with older or multi-layer subsurfaces. It is your responsibility to check the suitability of the subsurface; adhesion tests may be necessary in certain cases.

General conditions

When temperatures are above 20 °C (68 °F), the tape should be stored in a cool place on the building site too. When temperatures are below 8 °C (47 °F), the tape should ideally be kept above this temperature limit. The rate of expansion of the tape depends primarily on the temperature: the expansion rate is slower at low temperatures, faster at higher temperatures.

The tape dimensions should be selected and the gap dimensions planned in accordance with the "Guideline for installation of windows and external pedestrian doors" that has been published by the RAL Quality Seal organisation (Gütegemeinschaft Fenster, Fassaden und Haustüren e. V.) in Frankfurt and IFT Rosenheim.

Provide for slack by allowing 1 cm of additional length of the tape for every metre length (or ⅛" for every foot) of joint. Use butt-joints at corners and end-to-end joints. Ensure the tape remains in place until it expands by using the self-adhesive surface on a suitable subsurface. Install the tape with a recess of at least 2 mm ($^1/_{16}$") back from the edge of the gap.

Tape rolls should generally be stored lying flat. To avoid decompression of rolls that have already been started, secure the ends of the tape with KLIPFIX or else wrap an adhesive strip fully around the tape. Place a weight on the side of rolls that have already been started.

Before plastering or painting over the tape, test compatibility with the tape first. Do not bring the tape into contact with aggressive chemicals or clean it using such chemicals.

The recommended joint widths can be found under 'Supply forms'. For each individual article, the lowest and highest joint width is stated for which a seal is achieved that fulfils the BG1 class. Relative motion between building structures and any unevenness on surfaces should be taken into account here. The joint width is the width into which the tape can expand; this should also be taken into account when installing CONTEGA FIDEN EXO into a groove.

NBS

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The applications and conditions described here are based on current research findings and practical experience. We reserve the right to change the recommended application designs and installation methods and to develop and thus change the properties and quality of individual products. We would be glad to inform you about the current state of engineering knowledge at the time that your installation is carried out.

The planning documentation that is available from pro clima provides further information about installation methods and design details. If you have questions, please contact pro clima Technical Support in Germany at +49 6202 278245.

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