



Kaiflex® Special Adhesive 515 ECO

Solvent-free adhesive for processing flexible Kaiflex insulation materials

- Suitable for use in sustainable, green building compliant projects
- Water-based adhesive with flexible open/processing times
- Environmentally friendly and low emission for high indoor air quality
- Free of VOCs; meets the high requirements for occupational safety and environmental protection
- Easy processing thanks to paste-like consistency





Kaiflex® Special Adhesive 515 ECO

Solvent-free adhesive for processing flexible Kaiflex insulation materials

The water-based Kaiflex Special Adhesive 515 ECO was specially developed for solvent-free (VOC-free) bonding of flexible Kaiflex insulation systems. The adhesive is low in emissions, provides maximum safety during processing and ensures high indoor air quality. Also thanks to compliance with various standards, such as EMICODE EC1^{PLUS}, Kaiflex Special Adhesive 515 ECO offers great advantages in terms of occupational safety and environmental protection. For example, the adhesive meets the high international requirements for sustainable, energy-saving and environmentally friendly construction and offers optimum product conformity for projects, infrastructures and buildings that are to be certified according to LEED or BREEAM specifications. In doing so, it contributes to various categories such as “materials and resources” and “air quality in the building”. In addition, Kaiflex Special Adhesive 515 ECO scores with its simple and flexible processing. Due to its paste-like consistency, it has a high solids content and is therefore very economical.

- Suitable for use in sustainable, green building compliant projects
- Water-based adhesive with flexible open/processing times
- Environmentally friendly and low emission for high indoor air quality
- Free of VOCs; meets the high requirements for occupational safety and environmental protection
- Easy processing thanks to paste-like consistency

Certified quality



EMICODE EC1^{PLUS}
Optimal fulfillment of the highest environmental and health requirements thanks to certified low emissions.



LEED
Contribution to the certification of buildings according to the international classification system for ecological construction (Leadership in Energy and Environmental Design).



BREEAM
Contribution to the certification of buildings according to the international classification system for sustainable construction (Building Research Establishment Environmental Assessment Method).



Further information, technical documents, application guides, services and much more can be found online at

www.kaimann.com


Kaiflex Special Adhesive 515 ECO

Technical Data

Description	The water-based Kaiflex Special Adhesive 515 ECO has been specially developed for solvent-free (VOC-free) bonding of Kaiflex flexible insulation systems (except Kaiflex EPDMplus) to optimally meet e.g. DGNB, LEED or BREEAM specifications. The special adhesive is suitable for processing all flexible insulation materials (except Kaiflex EPDMplus). Perfect adhesion to metallic substrates, no adhesion to asphalt, bitumen or Mennige coatings (linseed oil based). Not suitable for/on soft PVC and polyolefins.		
Base	Polymer dispersion, preservative, mineral fillers, additives and water		
Colour		Beige	
Temperature resistance		-30 °C to +85 °C	
Application temperature	Optimum processing at +20 to +25 °C, min. +15 °C surface temperature and relative humidity below 65 %. Low temperatures and high humidity will delay whilst high temperatures and low humidity will accelerate the partial drying, setting and contact bonding times.		
Characteristics / Application	Apply adhesive on both sides in an evenly thin layer with a brush and allow to flash off at least until the adhesive is almost tack-free on contact. Allow to flash off for 20-40 minutes.		
Cleaning	Remove adhesive residues while fresh with lukewarm water.		
Storage	Shelf life at least 12 months in original packaging when stored in moderately cool conditions. Do not store below +5 °C. Tightly re-seal opened containers and use the contents as quickly as possible. Allow adhesive to reach room temperature before processing.		
Shelf life		min. 12 months	
Application	Surfaces to be bonded must be dry and free of dust or grease. The substrate to be bonded must have at least the processing temperature of the adhesive (see above). The drying time is noticeably longer at lower temperatures. Surfaces must be completely and evenly wetted with adhesive.		
Attention	Further information on safety, handling, transport and disposal can be found in the corresponding safety data sheet.		
Health and Safety	If possible, collect and reuse product residues. Do not allow product to enter drains, water courses or soil. Containers that have been emptied of residues, scraped out or are drip-free can be recycled. Containers with liquid and collected liquid product residues are special waste. Containers with hardened residual contents are construction site waste.		





Kaiflex Special Adhesive 515 ECO

Product range

		Details	Dimension / Reference	Order No.	Container type	Content	Pcs./ PU
	Kaiflex Special Adhesive 515 ECO		Ad-515-CA1000	4013475	Can	1000 g	12

Accessories

Knife · Gel ink pen

		Details	Dimension / Reference	Order No.	Pcs./ PU
Knife					
	Ceramic knife	with ceramic blade (15 cm) and plastic handle (14 cm)	Knf-Ceramic	4004737	1
	Sheet knife		Knf-Sheet	4004735	1
	Set of knives	3 knives, 1 whetstone	Knf-Set	4004736	1
Gel ink pen					
	Gel ink pen	Colour: Silver · for marking on insulation materials	Gelpen	4004730	12

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Application guide



Material property

The adhesive has a light beige colour and is available as a creamy paste.



Application temperature

The working temperature should be at least +15 °C. Under cold temperature conditions, the flash-off time will be considerably longer.



1

Apply the adhesive on both sides, evenly and very thinly.



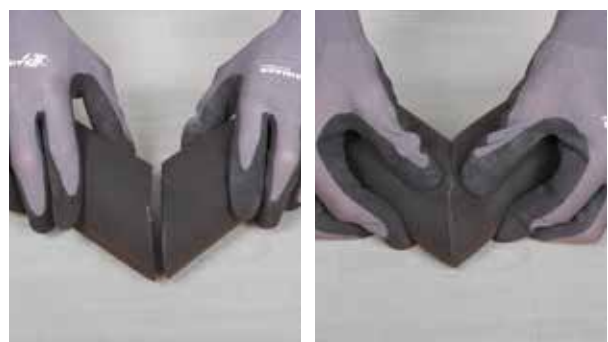
Attention

Applying adhesive too thickly prolongs the flash-off times many times over.



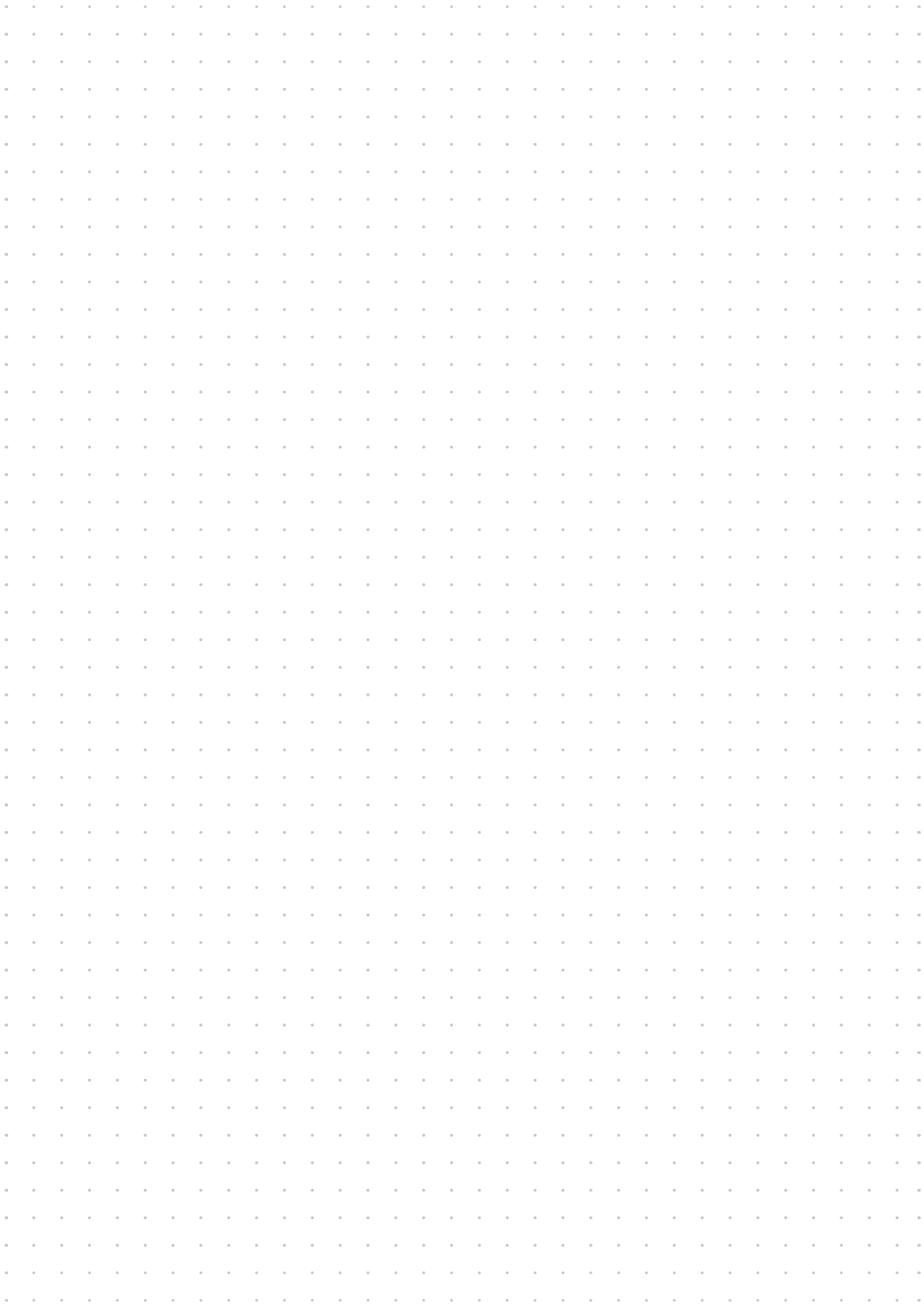
2

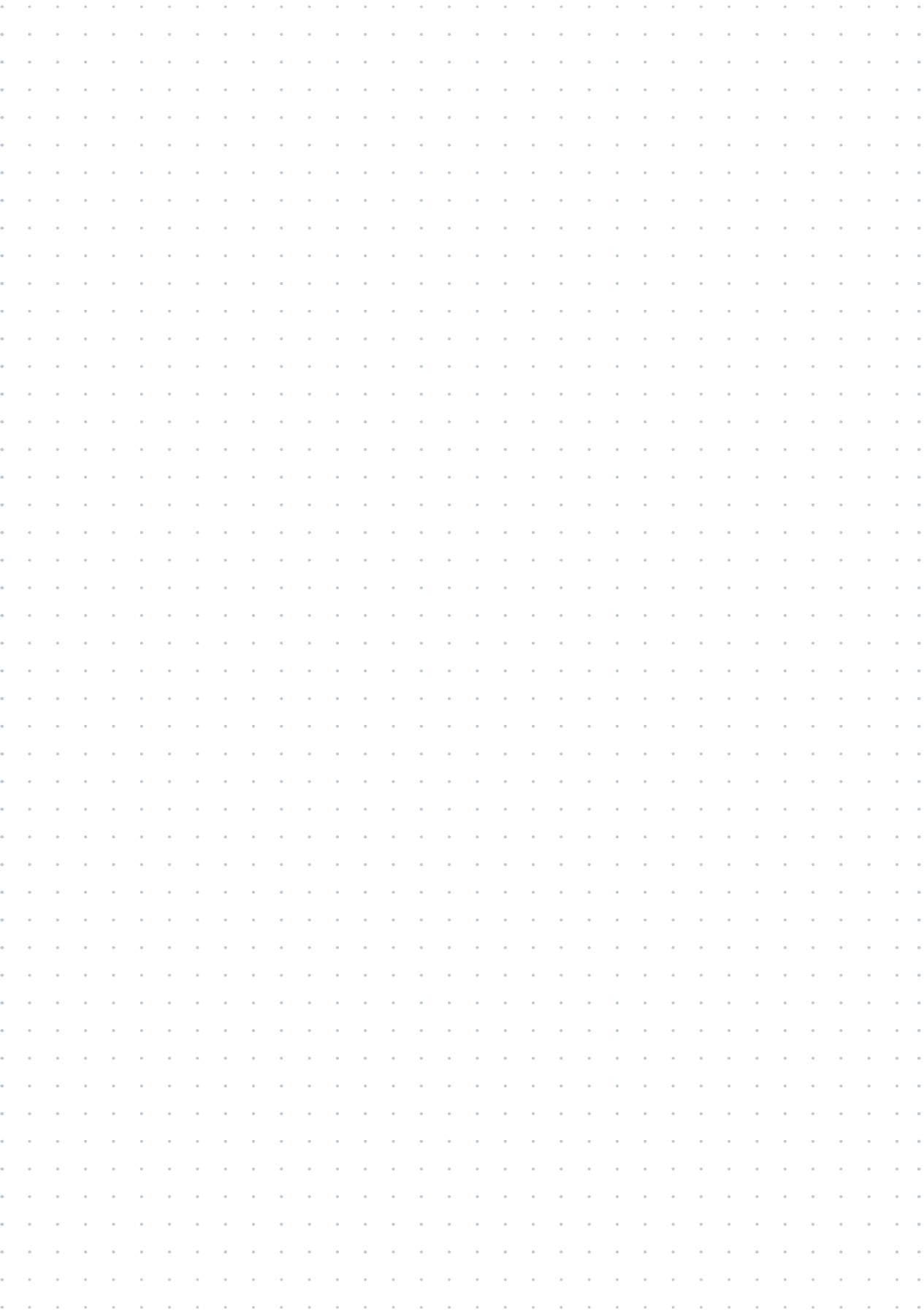
The adhesive does not develop its full adhesive force until it is transparent.

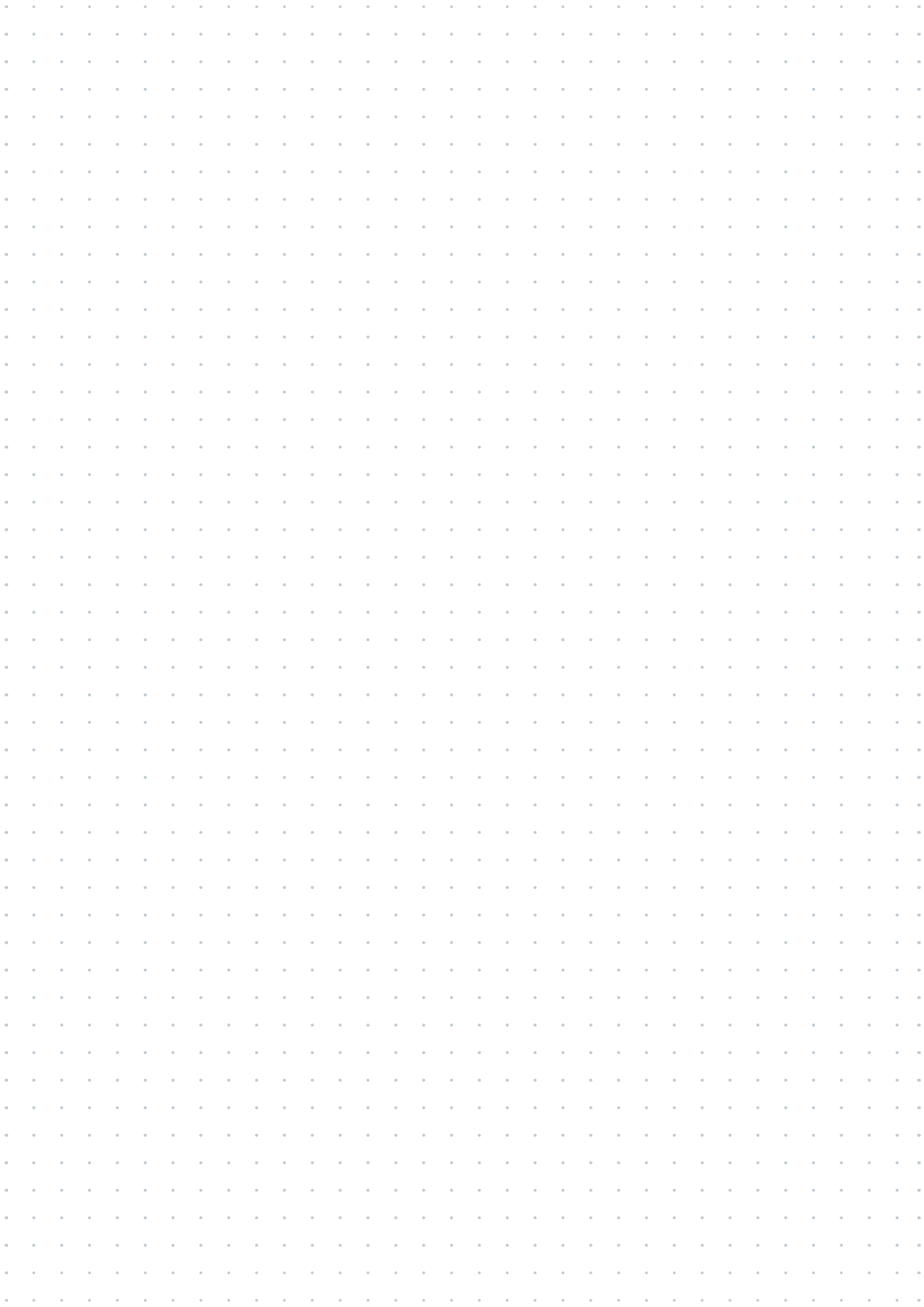


3

Lightly press the components together to position them. Press the seams together again for final fixing.







We create solutions

Always finding the best solution for customers – this simple resolution is what produces innovative ideas and continuous progress at Kaimann. The company is one of the leading suppliers of technology and innovation in elastomeric insulation and offers a broad product portfolio for a wide range of applications, e.g. in building services and technology as well as industry.

These products ensure higher energy efficiency and sustainability, combined with effective protection against corrosion, fire and noise. Thanks to environmental product declarations (EPDs), Kaimann insulation also provides more transparency for its life cycle assessment.



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