

*Underfloor heating system*  
Riscaldamento a pavimento



# DRY HP

*Underfloor heating and cooling with minimum construction height*  
Sistemi a pavimento per la ristrutturazione

***INSTALLATION MANUAL***  
**MANUALE INSTALLAZIONE**





## SAFETY WARNINGS - AVVERTENZE PER LA SICUREZZA

*Please, read this manual before installation and/or use of the equipment and keep it in an accessible place.*

*This equipment is part of complex installation; the designer's responsibility has to draw up the thermal diagram and statically verify the supporting structures.*

*The manufacturer's technical department is available at the phone numbers listed on the back of this manual for advice or particular technical requests.*

### CAUTION

*Installation and maintenance should be performed by qualified personnel only.*

*Hydraulic systems and rooms in which the equipment is to be installed must meet the required standards regarding safety, accident and fire prevention currently in force in the country of use.*

Leggere con attenzione questo manuale prima dell'installazione e/o dell'uso dell'apparecchiatura e conservarlo in un luogo accessibile.

La presente apparecchiatura costituisce un componente che fa parte di installazioni complesse: è compito del progettista redigere lo schema termico e verificare staticamente le strutture portanti.

L'ufficio tecnico del Costruttore si rende disponibile ai numeri indicati sul retro del presente manuale per consulenze o richieste tecniche particolari.

### ATTENZIONE

L'installazione e la manutenzione vanno eseguiti solo da personale qualificato.

Gli impianti idraulici ed i locali di installazione delle apparecchiature devono rispondere alle norme di sicurezza, antinfortunistiche e antincendio in vigore nel Paese di utilizzo.



## GENERAL WARNINGS - AVVERTENZE GENERALI

- *If after unpacking the packages any anomaly is noted, do not proceed with the installation and call an authorized service centre of the manufacturer.*
- *After installation, dispose of the packaging as required by regulations currently in force in the country of use.*
- *Always demand genuine parts: failure to observe this rule will invalidate the warranty.*
- *The manufacturer will not be held responsible under any circumstances for the following cases:*
  - *Where the safety regulations and safety standards outlined above are not complied with, including those in force in the country of installation.*
  - *Failure to follow the directions contained in this manual.*
  - *Damage to people, animals or property resulting from improper installation and/or misuse of products or equipment.*
  - *Inaccuracies or typographical or transcription errors and in this manual.*
  - *Furthermore, the manufacturer reserves the right to stop production at any time and to make any changes they deem necessary or useful, without the obligation of prior notice.*

- Se dopo aver disimballato i colli si nota una qualsiasi anomalia, non procedere all'installazione e rivolgersi ad un Centro di Assistenza autorizzato dal Costruttore.
- Alla fine dell'installazione smaltire gli imballi secondo quanto previsto dalle normative in vigore nel Paese di utilizzo.
- Esigere solo ricambi originali: la mancata osservazione di questa norma fa decadere la garanzia.
- Il Costruttore declina ogni responsabilità nei casi seguenti:
  - Non vengano rispettate le avvertenze e le norme di sicurezza sopra indicate, comprese quelle vigenti nei paesi di installazione.
  - Mancata osservanza delle indicazioni segnalate nel presente manuale.
  - Danni a persone, animali o cose, derivanti da una errata installazione e/o uso improprio di prodotti e attrezzature.
  - Inesattezze o errori di stampa e trascrizione contenuti nel presente manuale.
  - Il Costruttore, inoltre, si riserva il diritto di cessare la produzione in qualsiasi momento e di apportare tutte le modifiche che riterrà utili o necessarie senza obbligo di preavviso.



### WARNING

**Before laying the FLOORING , carefully read the instructions mentioned in this chapter.**



### ATTENZIONE

**Prima di iniziare la posa dei RIVESTIMENTI consultare attentamente le indicazioni riportate nel relativo capitolo**



## DISPOSAL - SMALTIMENTO



According to the provisions of the following European directives 2011/65/EU, 2012/19/EU, and 2003/108/CE, concerning the restriction of the use of certain hazardous substances in electrical and electronic equipment, as well as waste disposal.



In base a quanto previsto dalle seguenti direttive europee 2011/65/UE, 2012/19/UE e 2003/108/CE, relative alla riduzione dell'uso di sostanze pericolose nelle apparecchiature elettriche ed elettroniche, nonché allo smaltimento dei rifiuti.

The symbol of the crossed-out wheeled bin as shown on the product indicates that at the end of its useful life it must be disposed of separately from other waste.

The user must therefore dispose of the above equipment at the end of its useful life at an appropriate centre for the collection of electronic and electro-technical waste, or return it to the dealer when purchasing a similar new device in terms of one to one.

Proper waste collection leading to the subsequent recycling, treatment and environmentally friendly disposal of the equipment helps to avoid possible negative effects on the environment and on health and promotes the recycling of the materials of which the equipment is made up.

Illegal disposal of the product by the user will lead to the application of penalties prescribed by current legislation in force.

Il simbolo del cassonetto barrato riportato sull'apparecchiatura indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti.

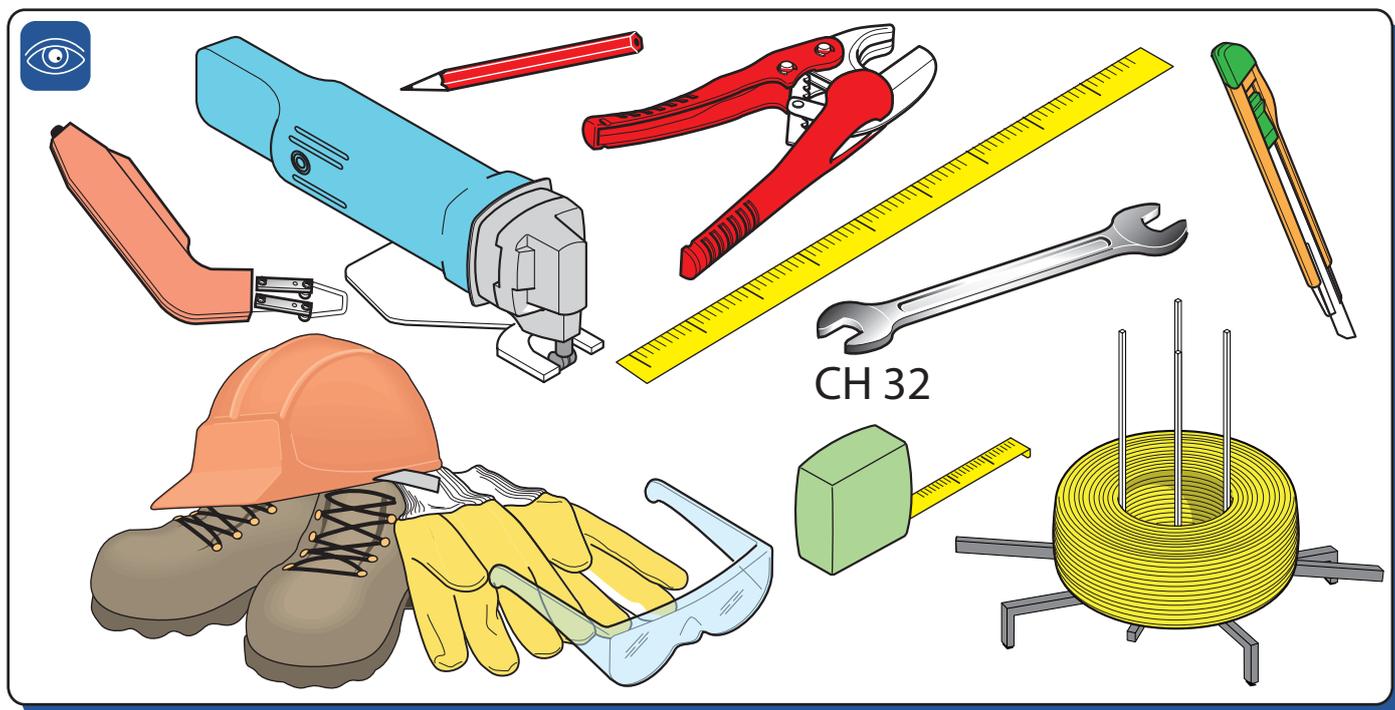
L'utente dovrà, pertanto, conferire l'apparecchiatura giunta a fine vita negli idonei centri di raccolta differenziata di rifiuti elettronici ed elettrotecnici, oppure riconsegnarla al rivenditore al momento dell'acquisto di una nuova apparecchiatura di tipo equivalente, in ragione di uno a uno.

L'adeguata raccolta differenziata per l'avvio successivo dell'apparecchiatura dismessa al riciclaggio, al trattamento e allo smaltimento ambientale compatibile contribuisce ad evitare possibili effetti negativi sull'ambiente e sulla salute e favorisce il riciclo dei materiali di cui è composta l'apparecchiatura.

Lo smaltimento abusivo del prodotto da parte dell'utente comporta l'applicazione delle sanzioni previste dalla vigente normativa in materia.



## NECESSARY EQUIPMENT - ATREZZATURA E D.P.I. NECESSARI





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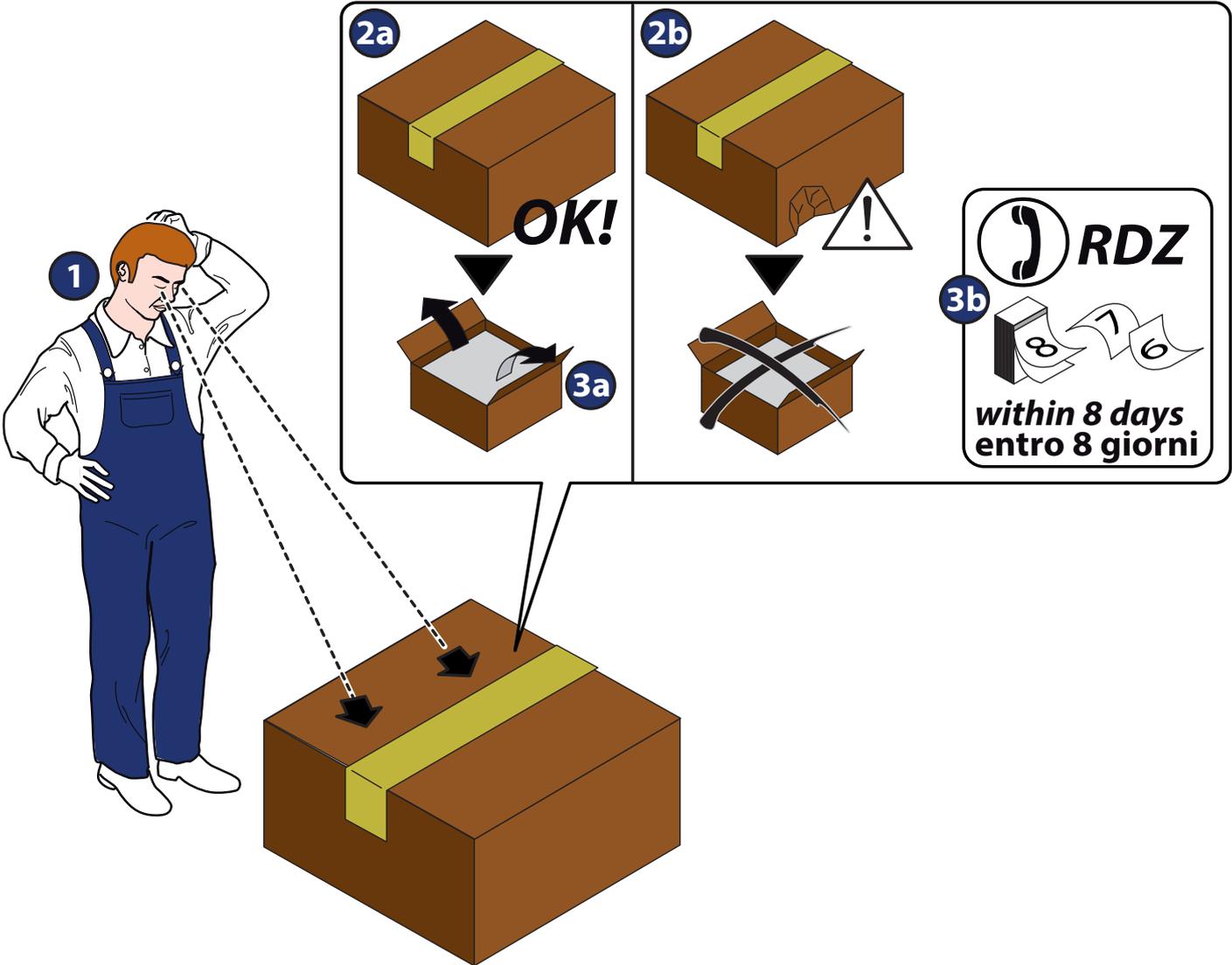
# 1 PRELIMINARY OPERATION - OPERAZIONI PRELIMINARI

## TESTING, TRANSPORT AND UNPACKAGING

Upon receipt, check immediately that the packaging is intact: the material has left the factory in perfect working order and any damage must be notified to the carrier immediately and noted on the Delivery Sheet before it is countersigned. Within 8 days, the customer must notify the manufacturer of the extent and type of the damage noted, making a written report.

## ISPEZIONE, TRASPORTO E DISIMBALLO

All'atto del ricevimento verificare immediatamente l'integrità dell'imballo: il materiale ha lasciato la fabbrica in perfetto stato, eventuali danni dovranno essere immediatamente contestati al trasportatore ed annotati sul Foglio di Consegna prima di controfirmarlo. Il Cliente, entro 8 giorni, deve avvisare il Costruttore sull'entità e la tipologia dei danni rilevati compilando un rapporto scritto.



**!** The unit packaging must be removed with care, ensuring that the material is not damaged. The materials which make up the packaging are different: wood, cardboard, nylon etc. Store them separately and deliver them for disposal or, where appropriate, recycling, to the relevant companies, thus reducing the environmental impact.

**!** L'imballo dell'unità deve essere rimosso con cura evitando di arrecare possibili danni ai materiale. I materiali che costituiscono l'imballo sono di natura diversa: legno, cartone, nylon, ecc. Conservarli separatamente e consegnarli per lo smaltimento o l'eventuale riciclaggio, alle aziende preposte allo scopo e ridurne così l'impatto ambientale.

## 2 DESCRIPTION - DESCRIZIONE

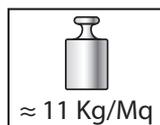


Dry HP by RDZ is a underfloor heating system, specifically designed to create systems with low thermal inertia and very high certified yield. The panel, available in two ashlar versions in sintered polystyrene, has the upper surface shaped with special recesses designed to house the slats and the aluminum tube-holder thermoconductive curves.

The support base is made up of a double layer of aluminum sheets glued together and staggered that allow the execution of the dry screed and guarantee the uniform distribution of the loads.

Dry HP di RDZ è un sistema di riscaldamento a pavimento a "SECCO", appositamente studiato per realizzare impianti a bassa inerzia termica e ad altissima resa certificata. Il pannello, disponibile in due versioni bugnate in polistirene sinterizzato, presenta la superficie superiore sagomata con speciali incavi predisposti per l'alloggiamento delle lamelle e delle curve termoconduttrici portatubo in alluminio.

La base di supporto è costituita da un doppio strato di lamine in alluminio incollate tra di loro e sfalsate che permettono l'esecuzione del massetto a secco e garantiscono la ripartizione uniforme dei carichi.



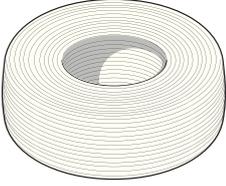
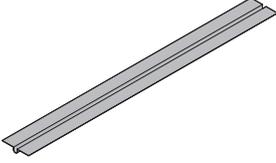
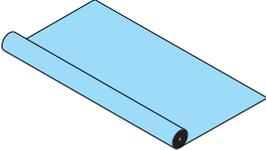
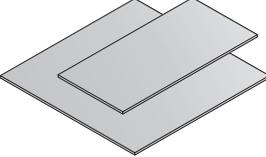
The DRY HP system has an equivalent weight of about 11 Kg/Mq excluding the final coating.

Il sistema DRY HP ha un peso equivalente di circa 11 Kg/Mq escluso il rivestimento finale.

### 2.1 DESCRIPTION OF THE COMPONENTS - DESCRIZIONE COMPONENTI

	<p><b>Slim 5 Perimeter Belt</b></p> <p>The edge insulation Slim 5 absorbs floor expansions and acts as thermo-acoustic insulation for the walls</p>	<p><b>Cornice perimetrale Slim 5</b></p> <p>Cornice perimetrale Slim 5 con funzione di assorbimento delle dilatazioni del pavimento e isolamento termoacustico delle pareti.</p>
	<p><b>Dry Hp Panel With Vertical Pipe Spacing</b></p> <p>Dry HP studded panel in sintered waterproof polystyrene, produced in compliance with UNI EN 13163 standard, with closed-cell structure, which has high mechanical resistance. Total thickness 25 mm. These panes have a moulded surface with special hollows to host the thermal diffusers holding the pipe in the central area of the room. Thermal conductivity 0.033 W/(m·K). Compression strength 500 kPa. Pipe spacing 120-240 mm. Size: 1200x600x10 mm.</p>	<p><b>Pannello Dry HP lineare</b></p> <p>Pannello Dry HP bugnato in polistirene sinterizzato prodotto in conformità alla normativa UNI EN 13163, stampato in idrorepellenza a celle chiuse, di elevata resistenza meccanica, spessore totale 25 mm, con superficie superiore sagomata a incavi speciali per l'alloggiamento delle lamelle e curve termoconduttrici portatubo nelle zone centrali dei locali. Conducibilità termica 0.033 W/(m·K). Resistenza alla compressione 500 kPa. Passi di posa 120-240 mm. Dimensioni: 1200x600x10 mm.</p>
	<p><b>Dry Hp Panel With Head Studs</b></p> <p>Dry HP studded panel in sintered waterproof polystyrene produced in compliance with UNI EN 13163 standard, with closed-cell structure, which has high mechanical resistance. Total thickness 25 mm. These panes have a moulded surface with special hollows to host the thermal diffusers holding the pipe along the perimeter of the rooms. Thermal conductivity 0.033 W/(m·K). Compression strength 500 kPa. Pipe spacing 120-240 mm. Size: 600x600x10 mm.</p>	<p><b>Pannello Dry HP di testa</b></p> <p>Pannello Dry HP bugnato in polistirene sinterizzato prodotto in conformità alla normativa UNI EN 13163, stampato in idrorepellenza a celle chiuse, di elevata resistenza meccanica, spessore totale 25 mm, con superficie superiore sagomata a incavi speciali per l'alloggiamento delle lamelle e curve termoconduttrici portatubo lungo il perimetro delle stanze. Conducibilità termica 0.033 W/(m·K). Resistenza alla compressione 500 kPa. Passi di posa 120-240 mm. Dimensioni: 600x600x10 mm.</p>
	<p><b>Dowel For Dry Hp Panel</b></p> <p>Connecting dowel for Dry HP panels</p>	<p><b>Tassello per pannello Dry HP</b></p> <p>Elemento di giunzione per l'accoppiamento dei pannelli Dry HP.</p>



	<p><b>Isocoll 160</b></p> <p>One-component polyurethane adhesive. Moisture hardener with low viscosity, flexible in use. This solventless glue reacts to the moisture in the air and turns to a fine and restrained foam. Dosage: 1 can per 4 m<sup>2</sup>.</p>	<p><b>Isocoll 160</b></p> <p>Adesivo poliuretano monocomponente igroindurente flessibilizzato a bassa viscosità. Esente da solventi, reagisce con l'umidità presente nell'atmosfera formando una schiumatura finale, fine e contenuta. Dosaggio: un flacone ogni 4 m<sup>2</sup></p>
	<p><b>RDZ PE-RT Pipe Ø 14</b></p> <p>RDZ PE-RT pipe made of uncrosslinked polietileno, suitable for surface heating and cooling systems. It is provided with oxygen barrier in compliance with DIN EN ISO 21003 and DIN 4726. Diameter 14 mm, thickness 2 mm, natural colour.</p>	<p><b>Tubo RDZ PE-RT Ø 14</b></p> <p>TUBO RDZ PE-RT in polietilene non reticolato, adatto all'utilizzo nei sistemi di riscaldamento e raffreddamento radianti. Dotato di barriera antiossigeno in conformità alla normativa DIN EN ISO 21003 e DIN 4726. Diametro 14 mm, spessore 2 mm, colore naturale.</p>
	<p><b>Dry Hp Thermal Diffusers</b></p> <p>These heat conducting plates are made of aluminium, thickness 0.4 mm. They are used to contain PE-RT pipe Ø 14-10 mm and act as heat transfer.</p>	<p><b>Lamelle termoconduttrici</b></p> <p>Lamelle termoconduttrici in alluminio di spessore 0.5 mm, atte al contenimento del tubo in PE-RT Ø 14-10 mm e alla diffusione del calore.</p>
	<p><b>Full Elbow Diffuser</b></p> <p>Full elbow diffuser to lay and bend the pipe at 180 degrees. It is made of aluminium, thickness 0.5 mm, and it is suitable to hold PE-RT pipe Ø 14-10 mm. It acts as heat transfer.</p>	<p><b>Curva termoconduttrice intera</b></p> <p>Elemento curvo per la posa della tubazione a 180°. Realizzato in alluminio di spessore 0.5 mm e adatto all'alloggiamento del tubo in PE-RT Ø 14-10 mm e alla diffusione del calore.</p>
	<p><b>Half Elbow Diffuser</b></p> <p>Right and left half elbow diffusers to lay and bend the pipe at 90 degrees. They are made of aluminium, thickness 0.5 mm, and they are suitable to hold PE-RT pipe Ø 14-10 mm. They act as heat transfer</p>	<p><b>Curva termoconduttrice divisa</b></p> <p>Elementi curvi destro e sinistro per lo spostamento della tubazione a 90°. Realizzati in alluminio di spessore 0.5 mm e adatti all'alloggiamento del tubo in PE-RT Ø 14-10 mm e alla diffusione del calore.</p>
	<p><b>Polyethylene Sheet</b></p> <p>Polyethylene sheet, 0.18 mm. It must always be laid above the insulating panel and optionally below the panel (with humidity barrier function) if it is necessary to impermealise the substrate.</p>	<p><b>Foglio in polietilene</b></p> <p>Foglio di polietilene in materiale vergine, spessore 0.18 mm. Va posato sempre al di sopra del pannello isolante e opzionalmente al di sotto del pannello (con funzione di barriera all'umidità) nel caso serva impermealizzare il sottofondo.</p>
	<p><b>Aluminium Plates</b></p> <p>Aluminium plates, thickness 1.2 mm, with or without adhesive, to produce the dry floor screed and to distribute the load. They shall be laid in two layers and shall not be lined up.</p>	<p><b>Lastre in alluminio</b></p> <p>Lastre in alluminio dello spessore di 1.2 mm, con e senza adesivo, per l'esecuzione del massetto a secco e per la ripartizione del carico. Le lastre devono essere utilizzate in doppio strato e sfalsate.</p>
	<p><b>Open Elbow</b></p> <p>Open elbow Ø 14 made of plastic material. It is used to support the pipes near the manifolds vertically and to protect them from any damage.</p>	<p><b>Curva aperta</b></p> <p>Curva aperta Ø 14 in materiale plastico, con funzione di sostenere verticalmente i tubi in prossimità dei collettori e proteggerli da eventuali urti.</p>

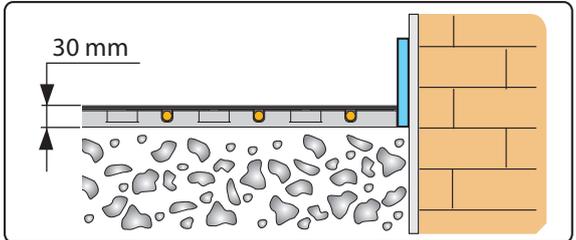
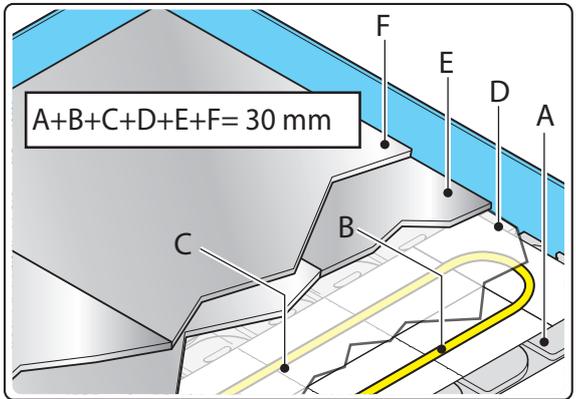
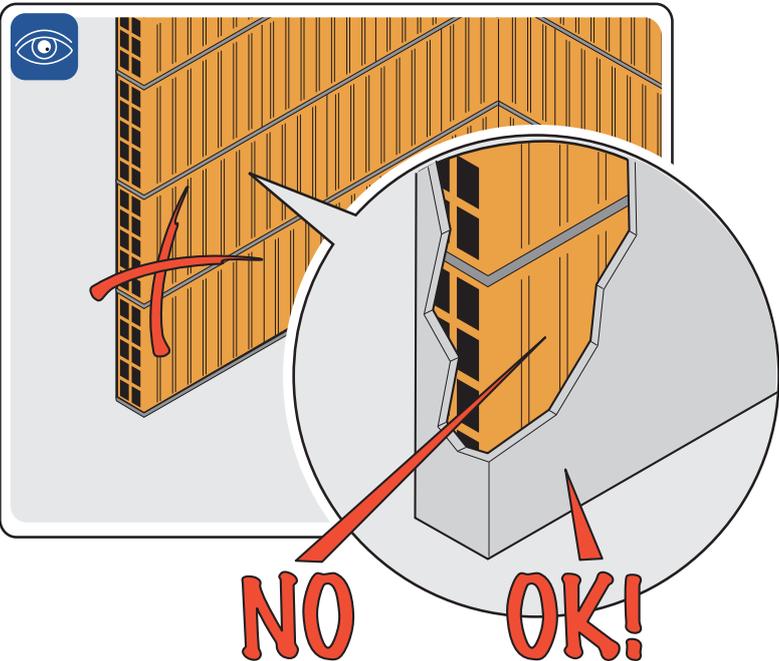
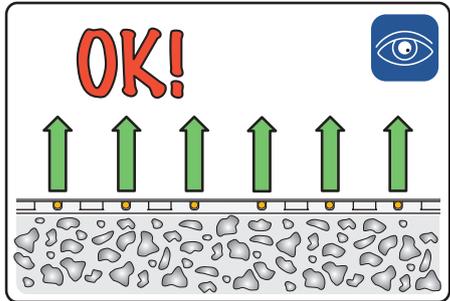
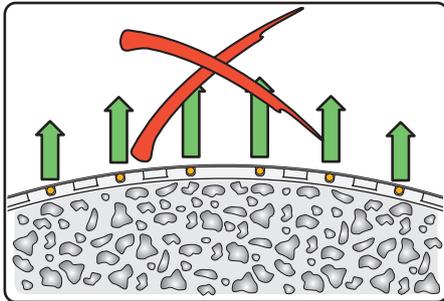
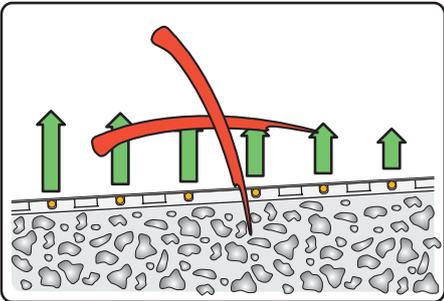
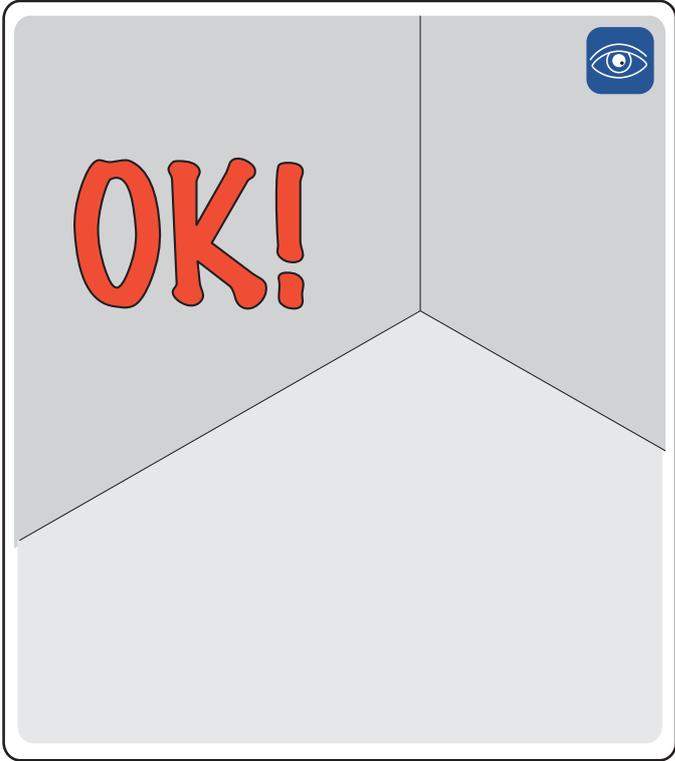


### 3 INSTALLATION - INSTALLAZIONE

#### 3.1 PREPARATION OF THE LAYING BASE - PREPARAZIONE DEL PIANO DI POSA

Before starting laying activities in the building site it is necessary to follow the instructions shown in the pictures below:

Prima di cominciare le operazioni di posa in cantiere è necessario seguire una serie di accorgimenti illustrati nelle figure sottostanti.

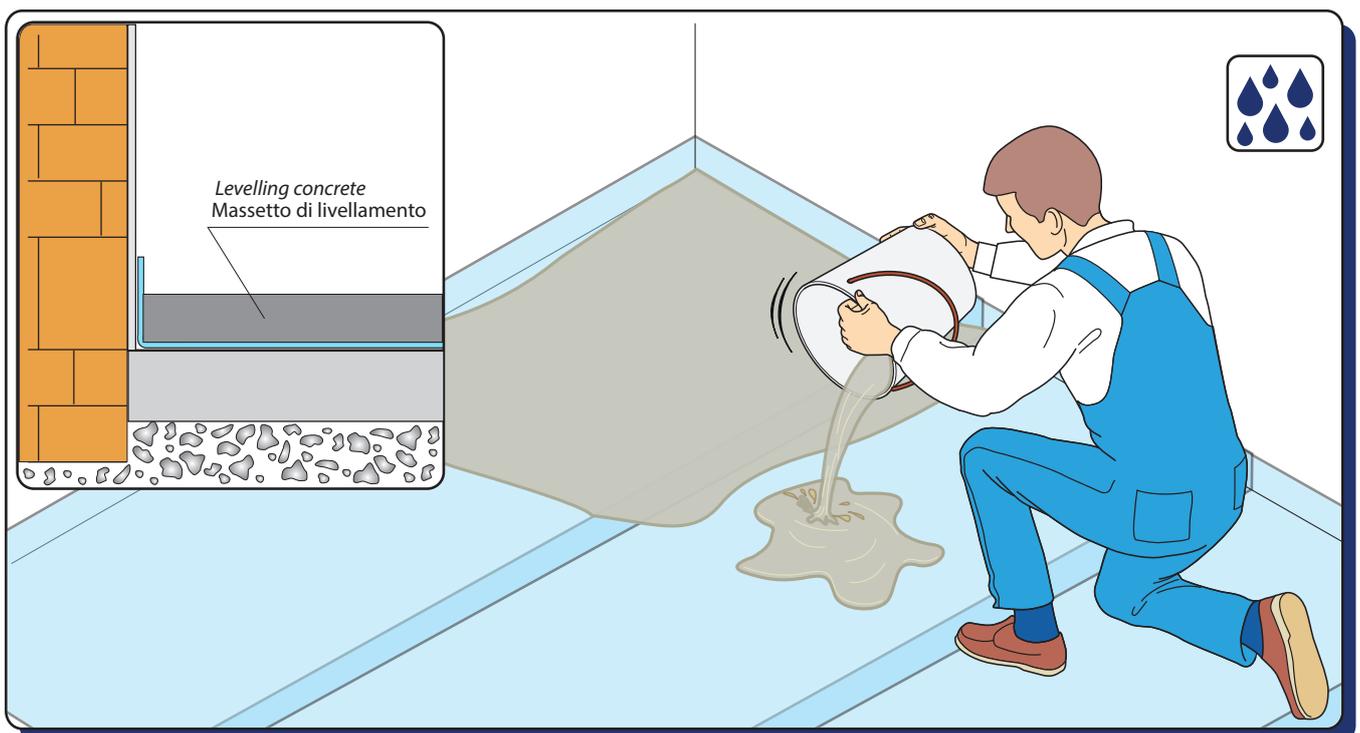
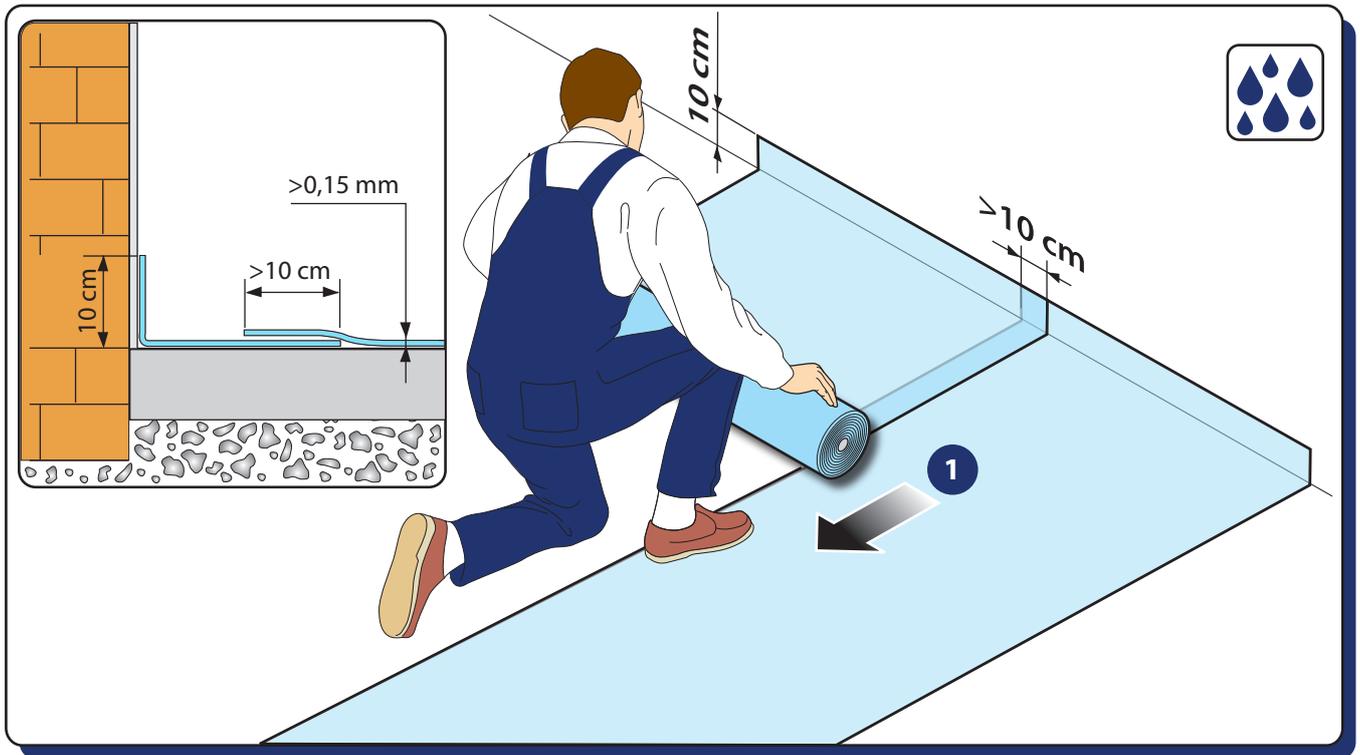




### 3.2 INSTALLATION OF HUMIDITY BARRIER (OPTIONAL) POSA BARRIERA ALL'UMIDITÀ (OPZIONALE)

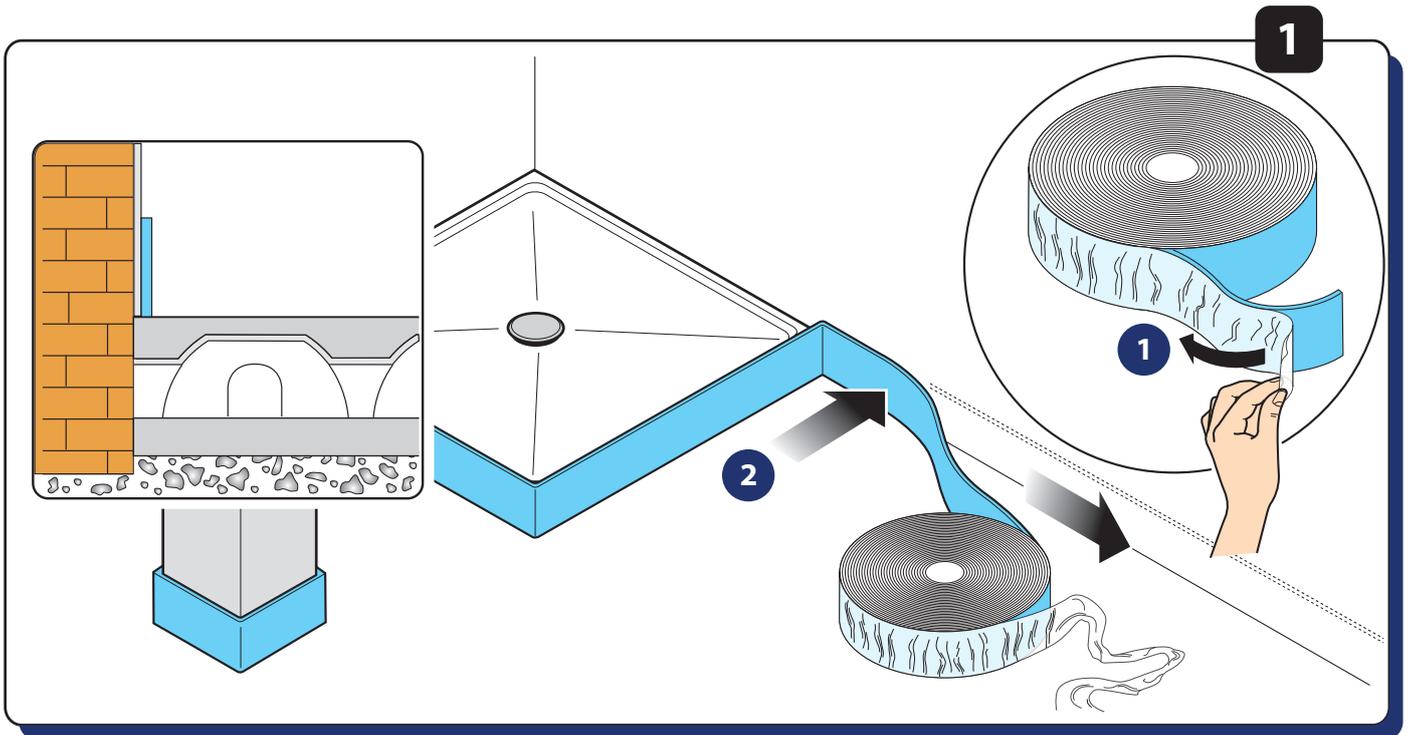
If the floor lies **directly on the ground** (without void space or insulating sheath), it is important to install a waterproof layer made of polyethylene sheets functioning as humidity barrier, minimum thickness 0.15 mm (or a similar system), to place under DRY system. You must use levelling concrete between the humidity barrier sheet and DRY system.

Se la pavimentazione si trova a **diretto contatto con il terreno** (quindi senza vuoto sanitario o guaina isolante), si procede alla posa di uno strato per l'impermeabilizzazione, costituito da un foglio in polietilene avente funzione di barriera all'umidità di spessore minimo 0,15 mm (oppure un sistema equivalente), da collocare sotto il sistema DRY. Tra il sistema DRY e la barriera umidità si rende obbligatoria la posa di un massetto di livellamento.

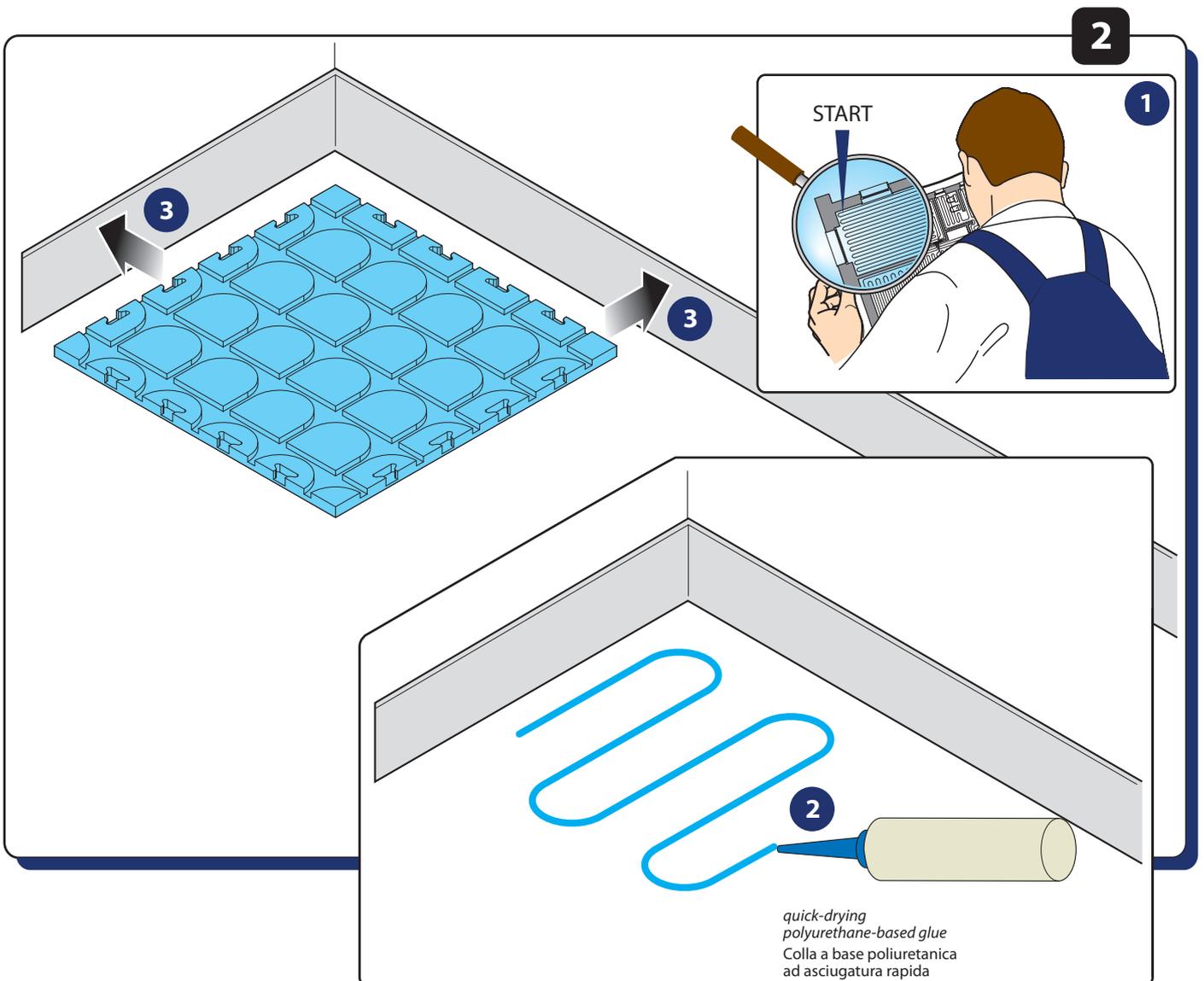




3.3 INSTALLATION OF THE PERIMETREL BELT - POSA DELLA CORNICE PERIMETRALE

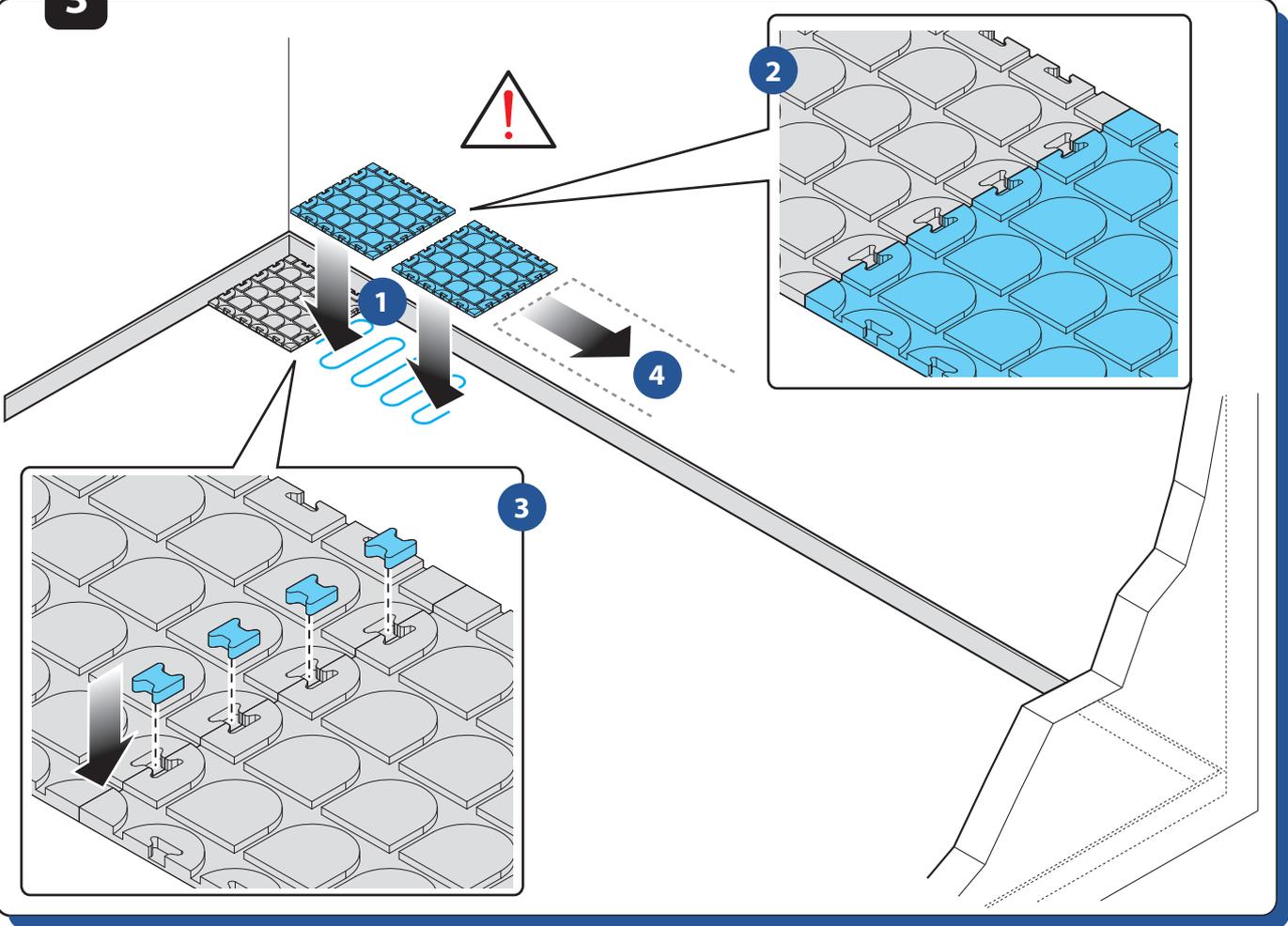


3.4 INSTALLATION OF THE DRY-TECH PANEL - POSA DEL PANNELLO DRY-TECH

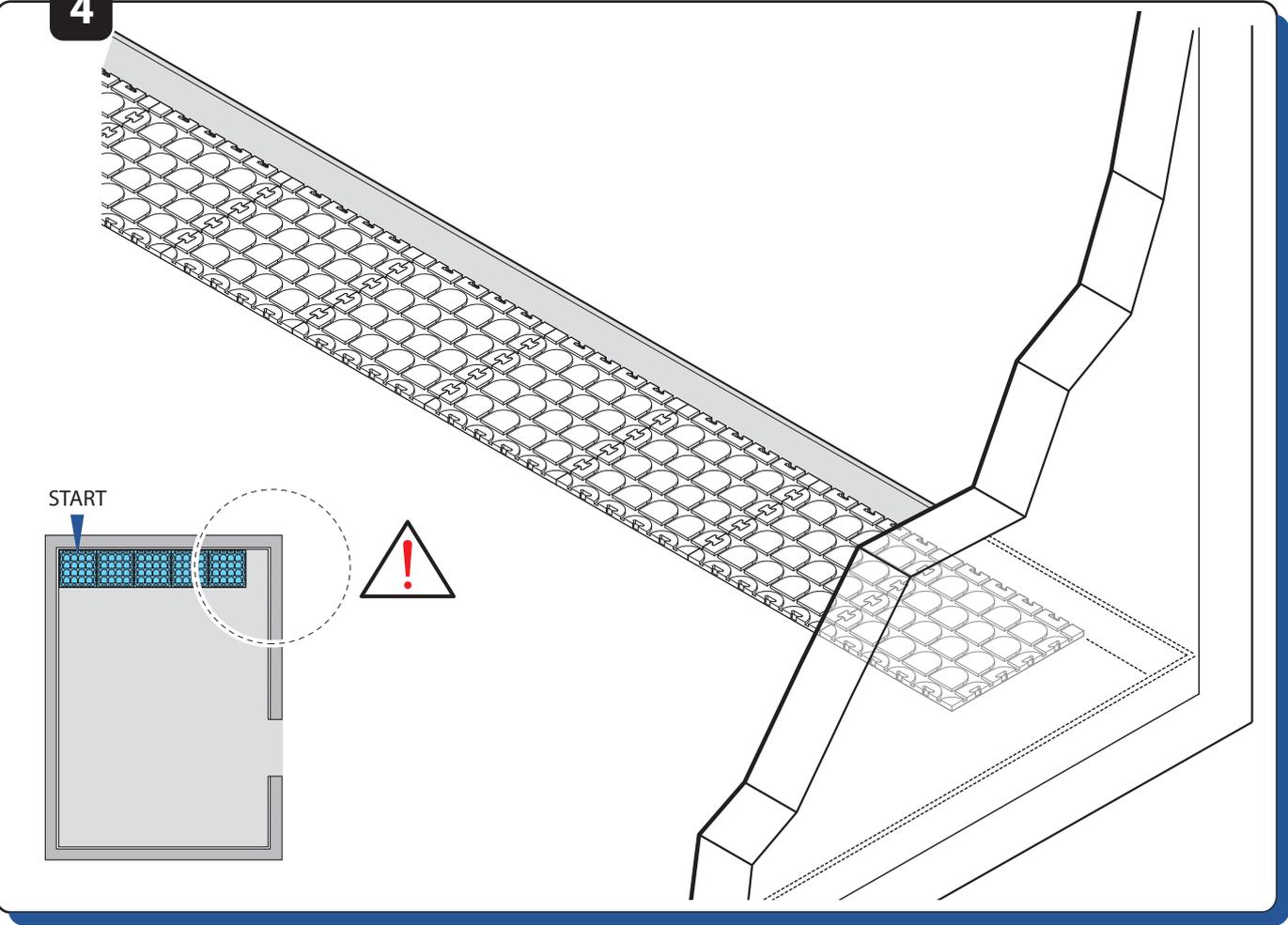




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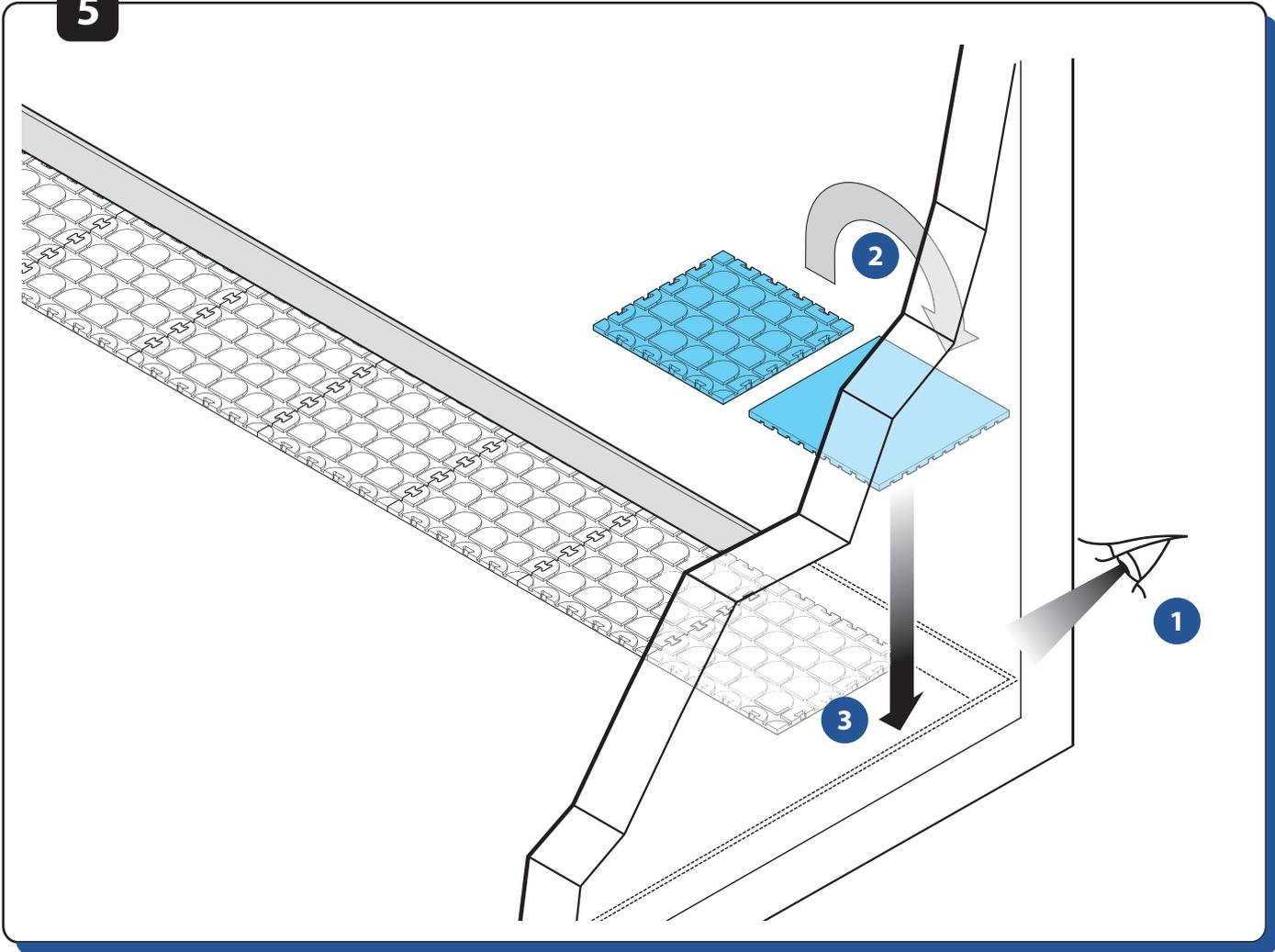


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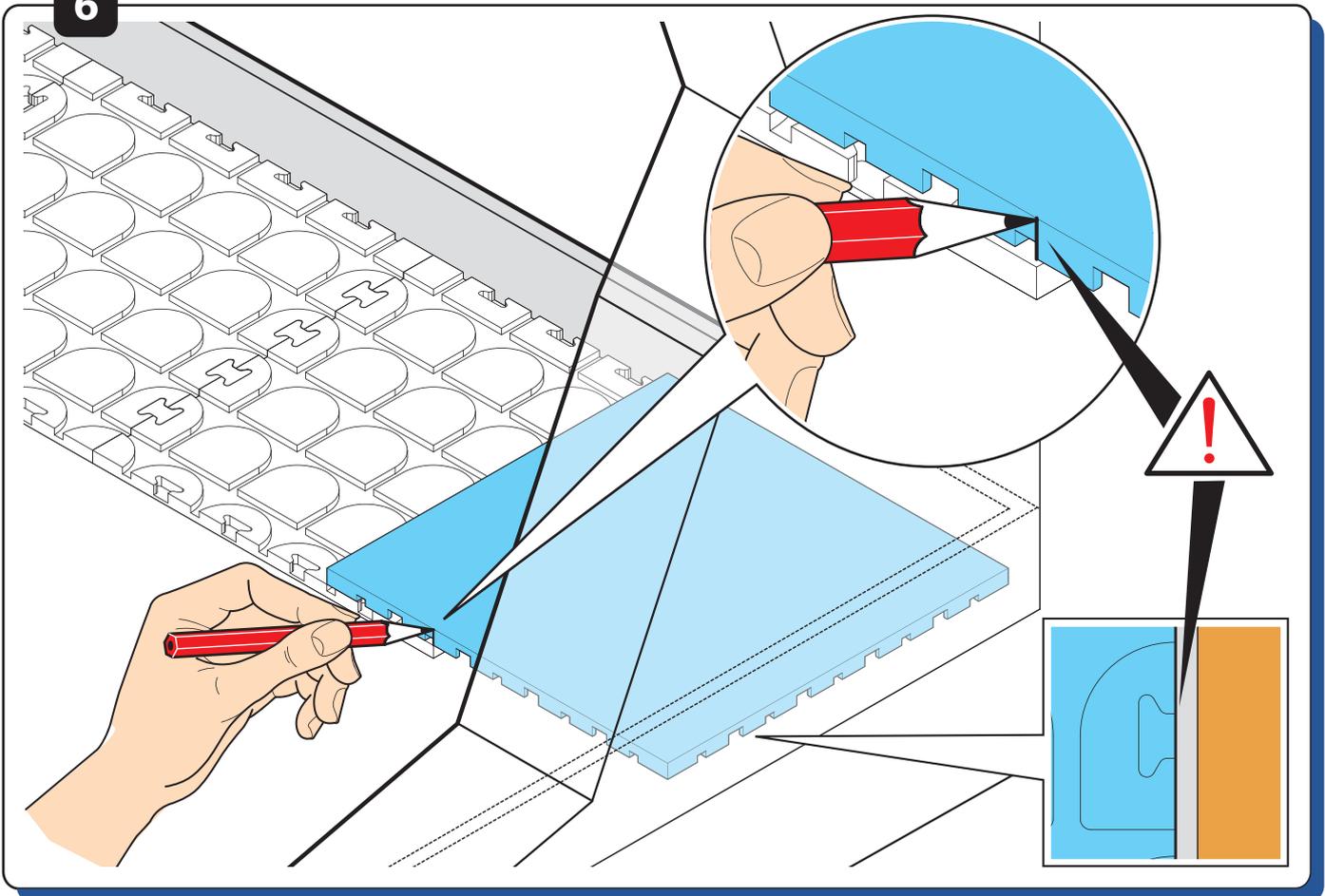




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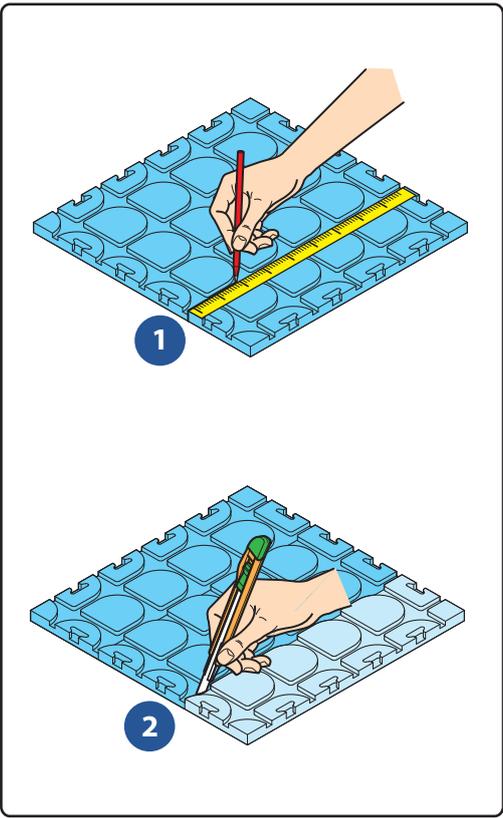


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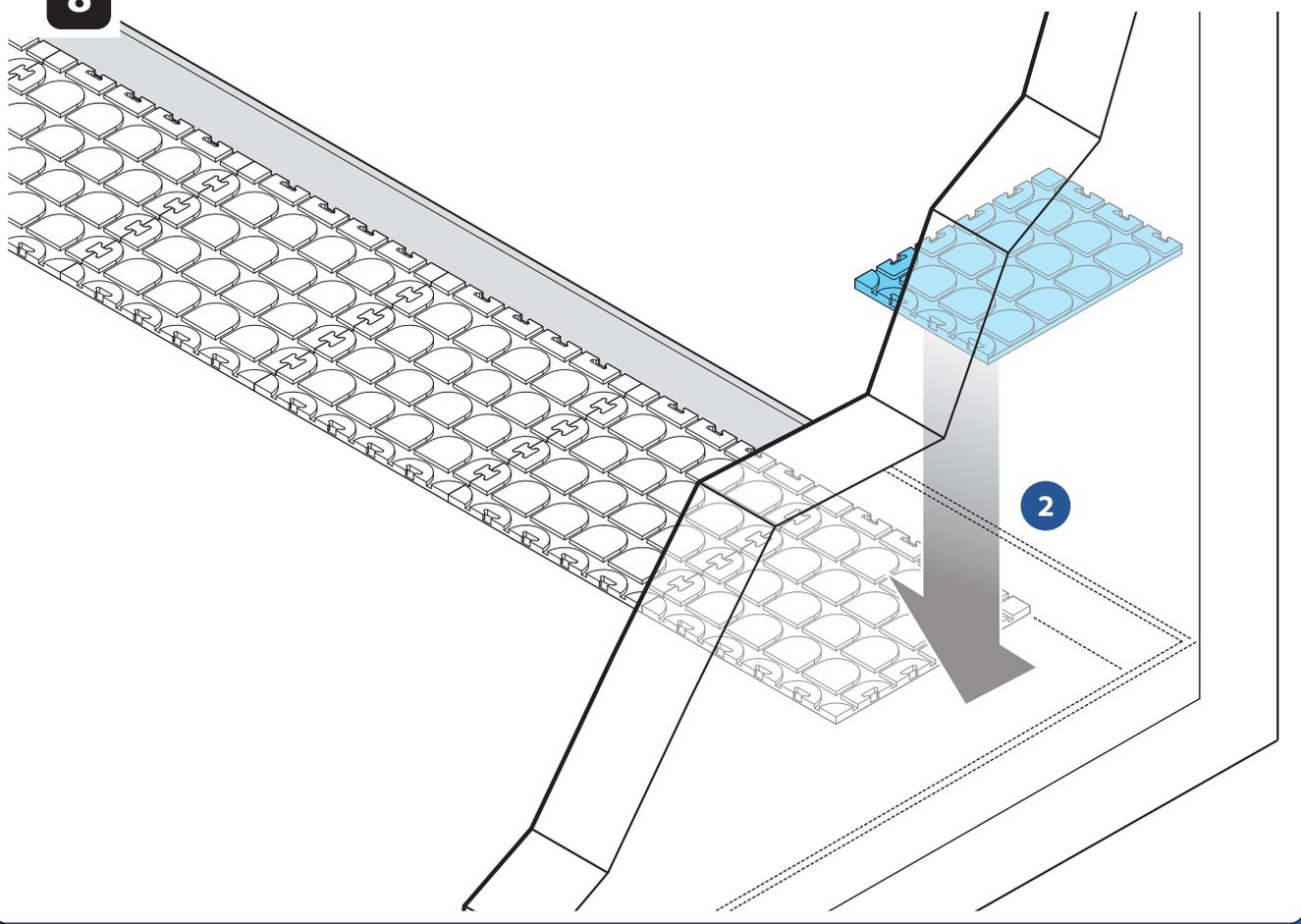




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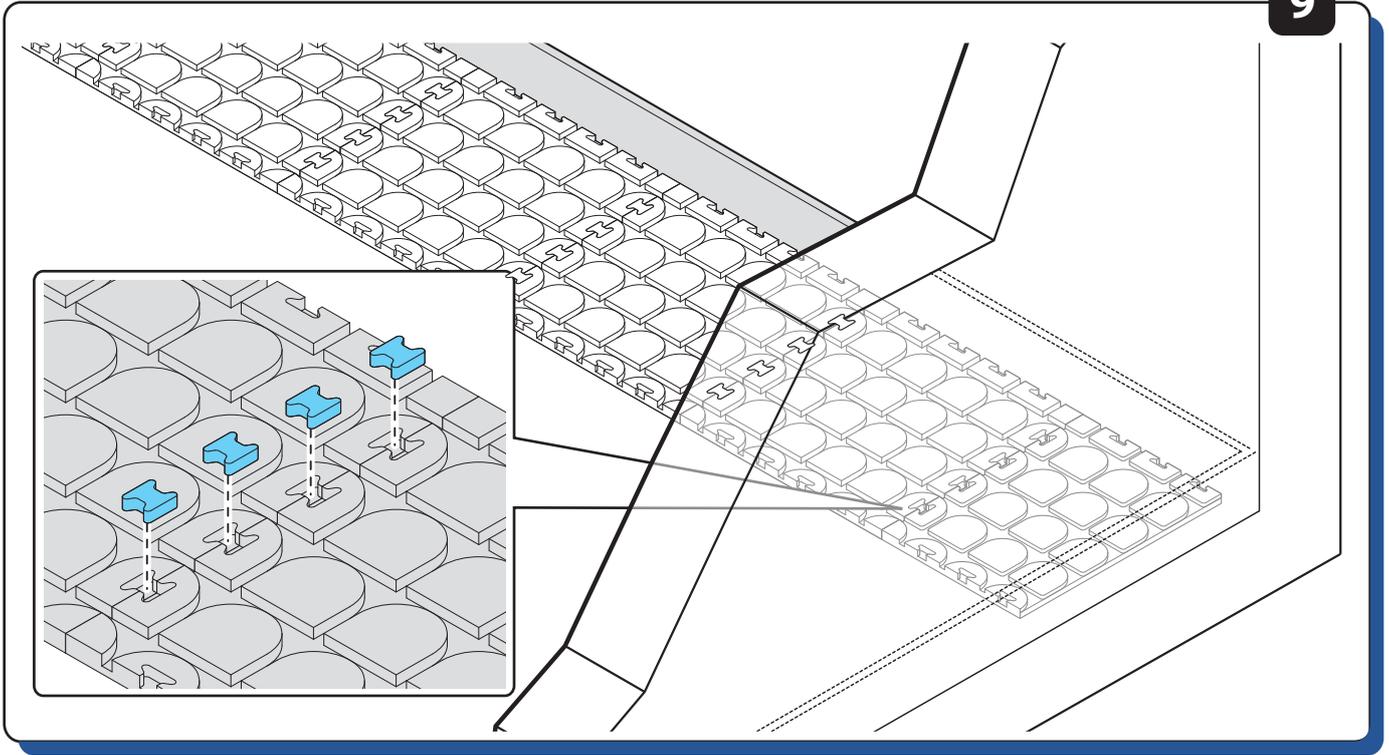


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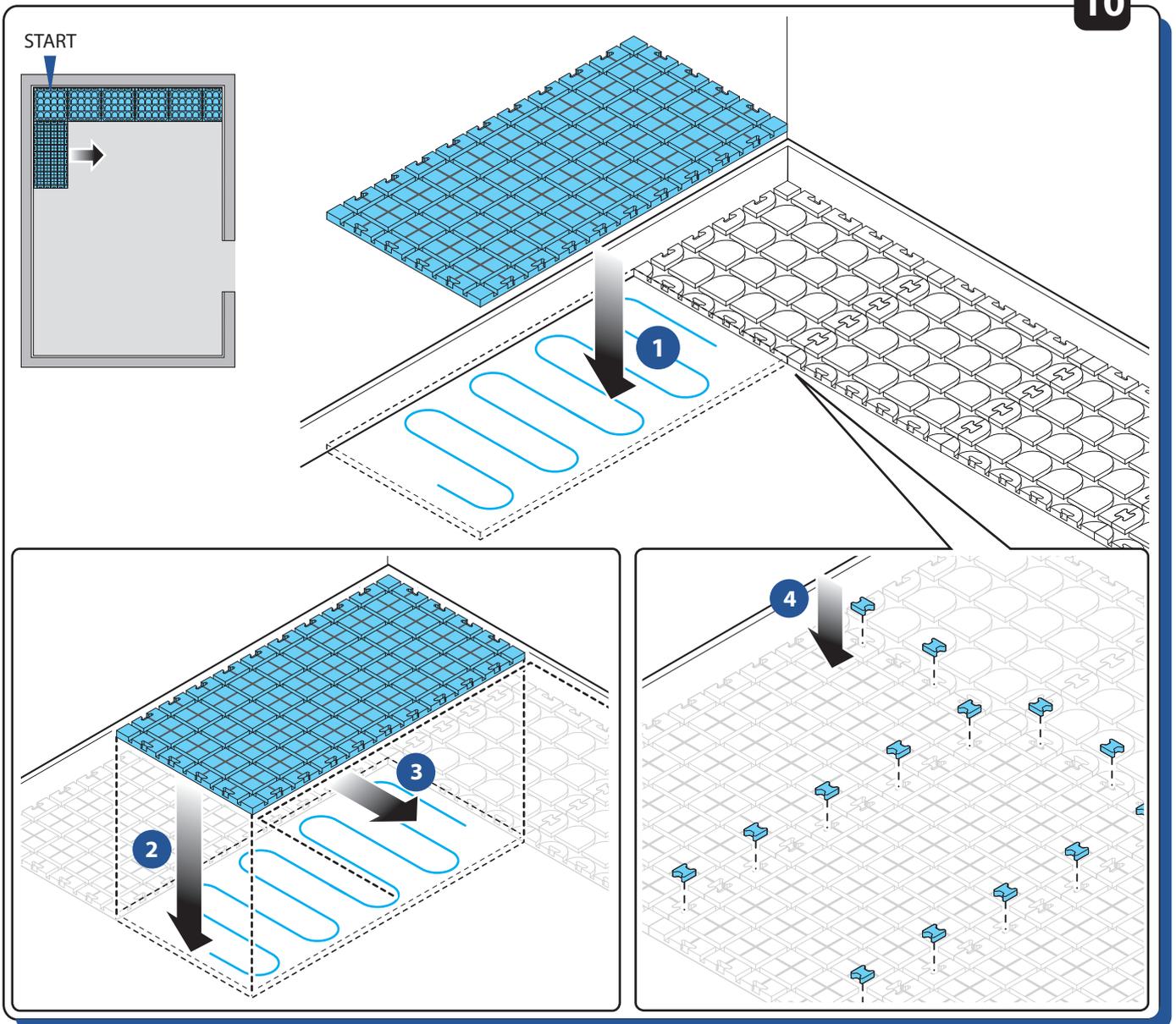




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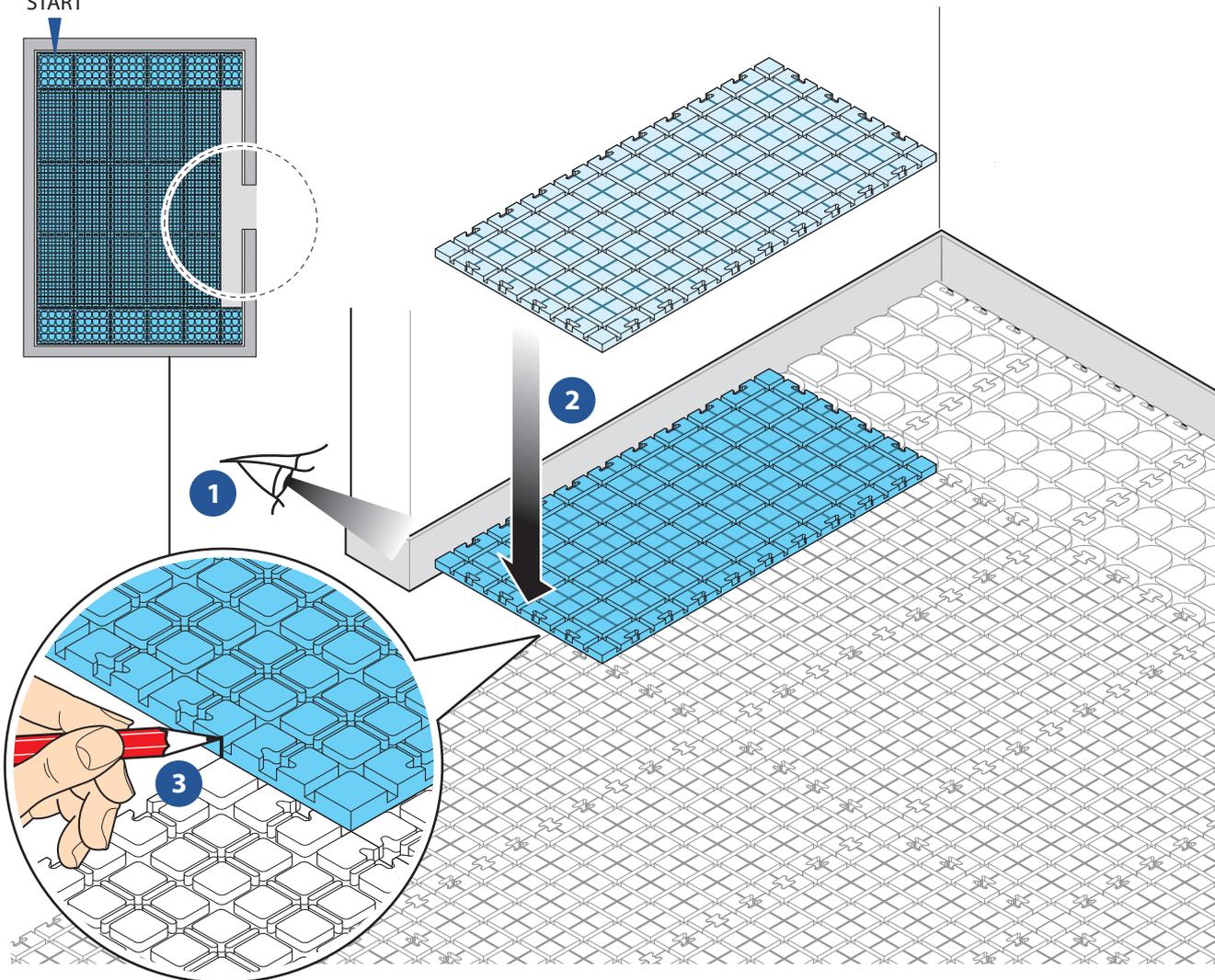
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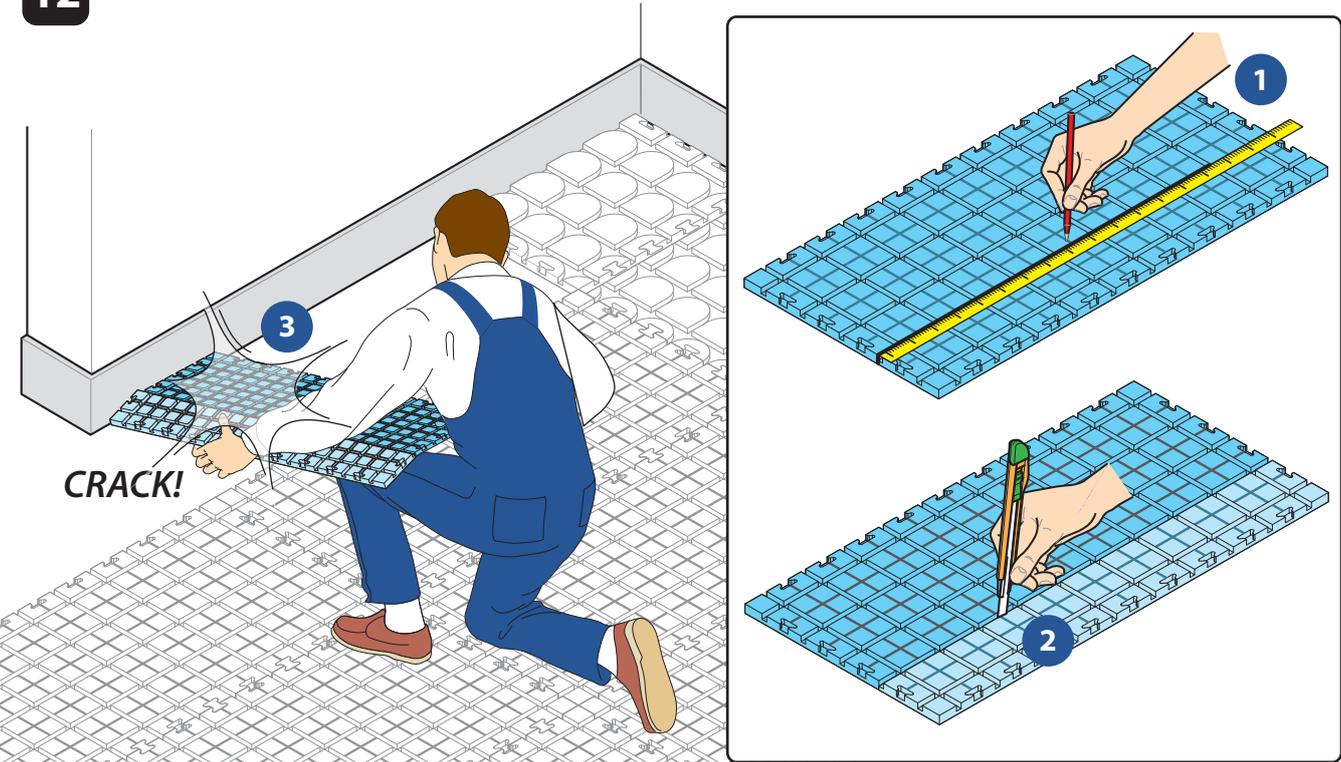


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START



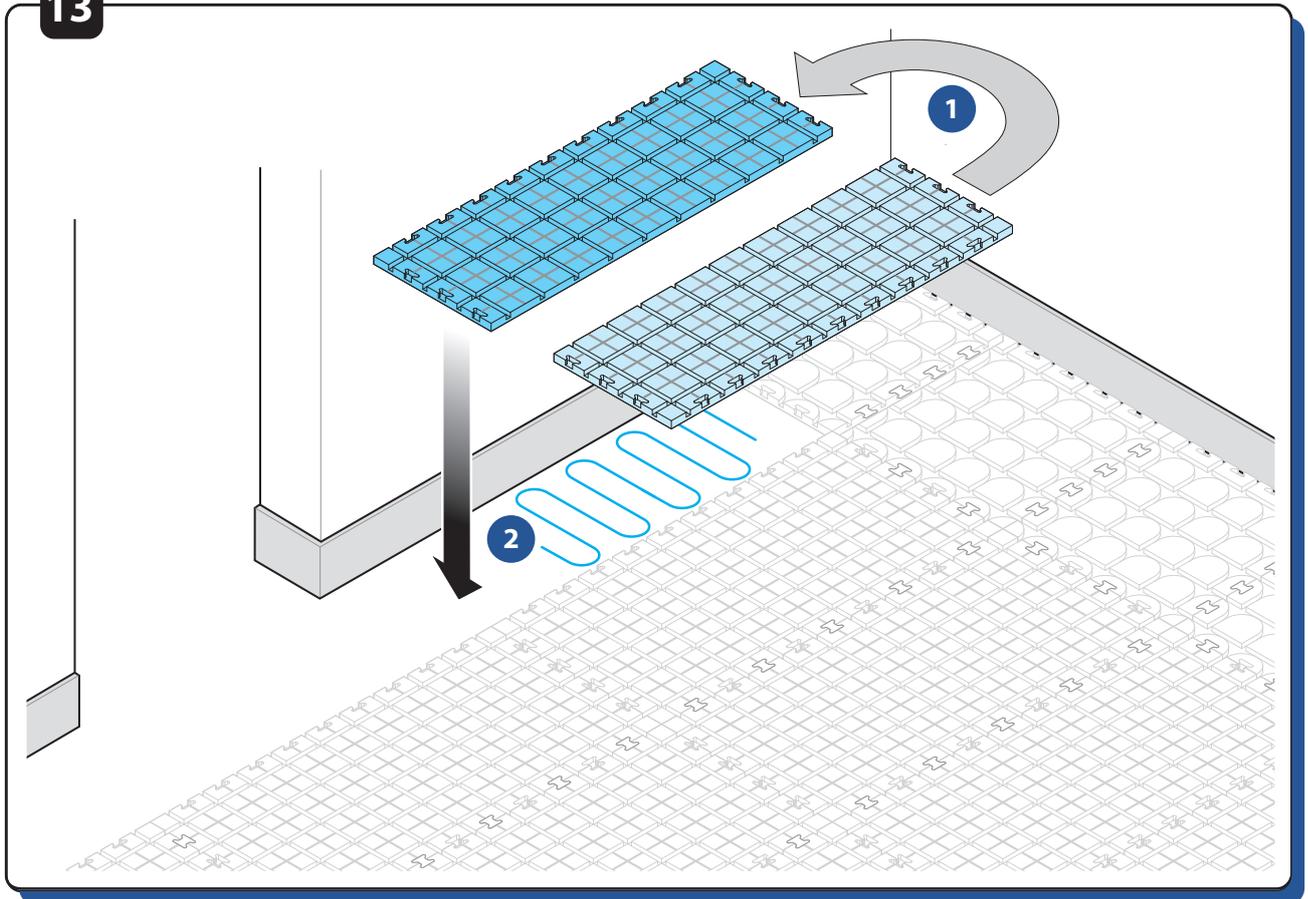
12



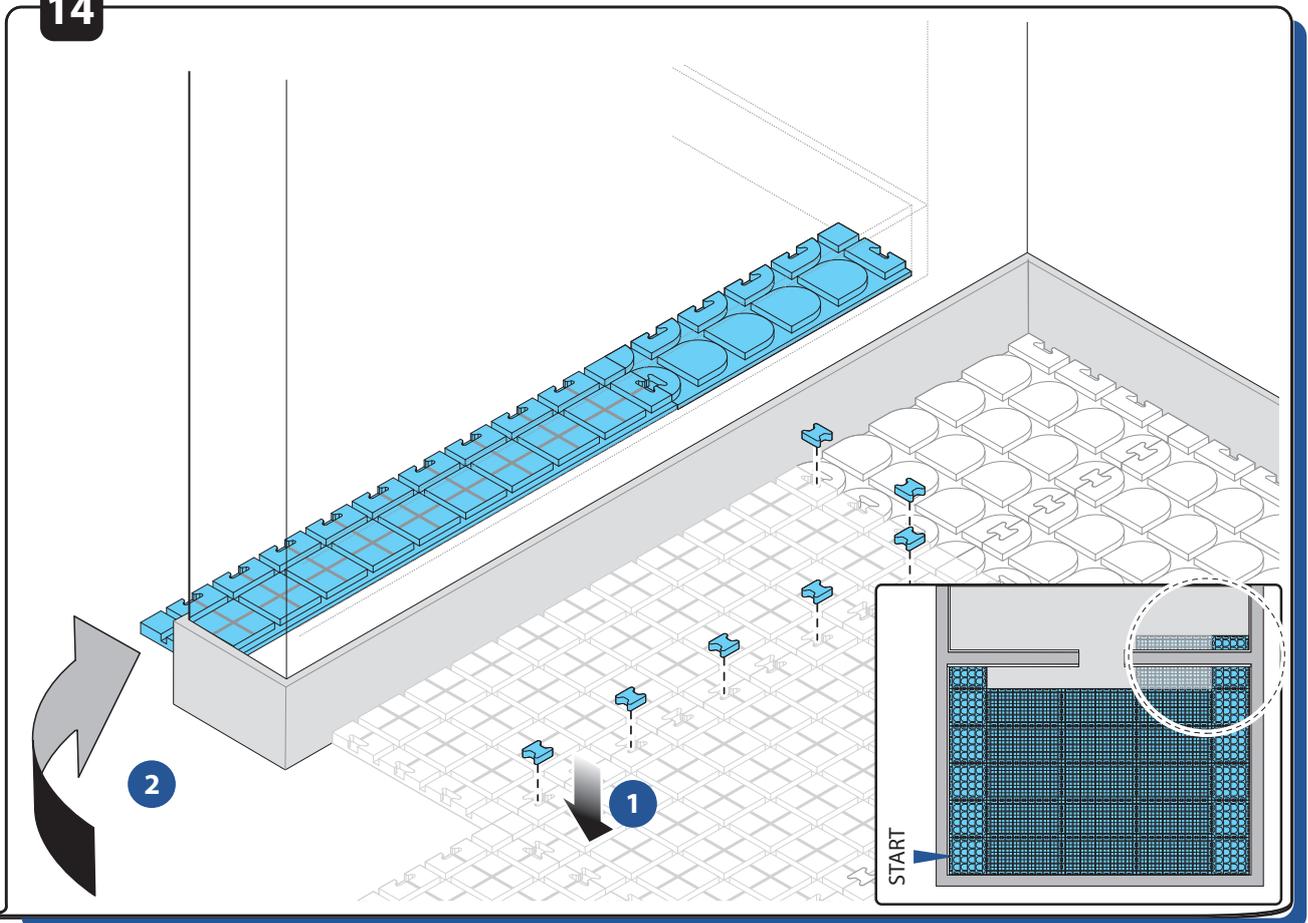
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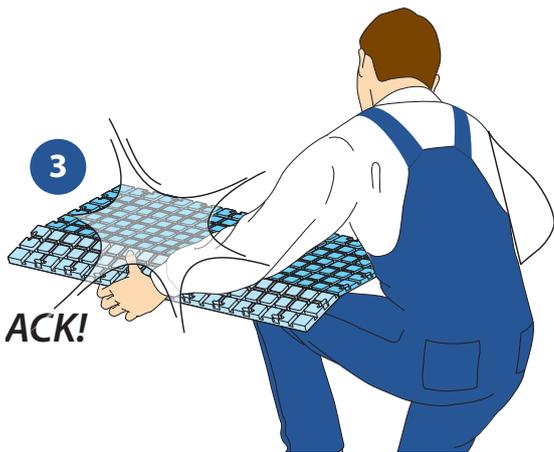
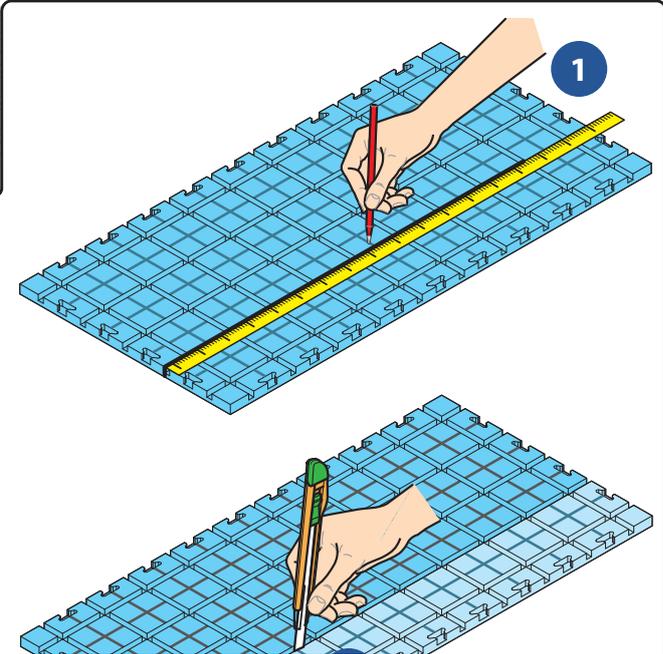
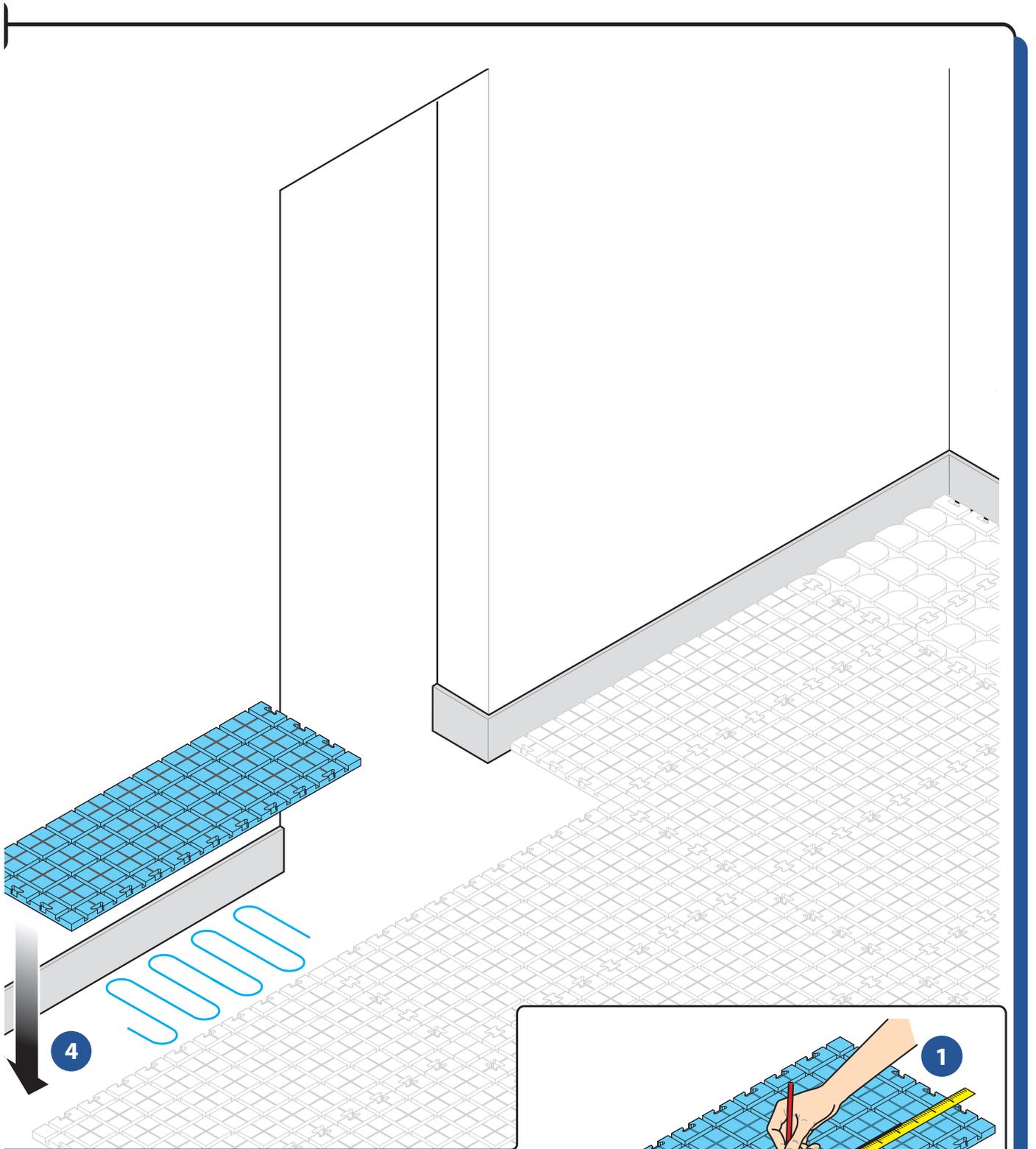


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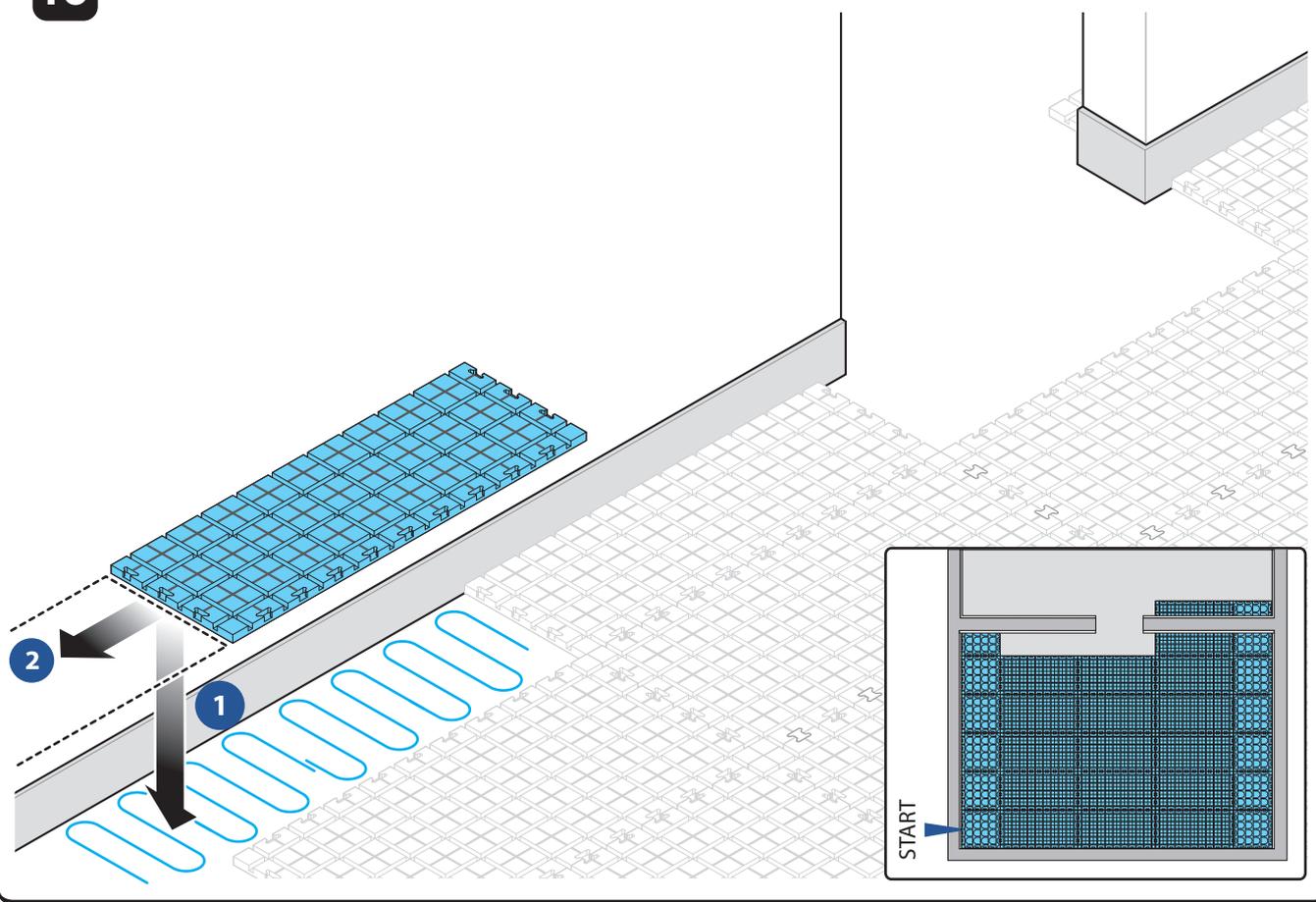
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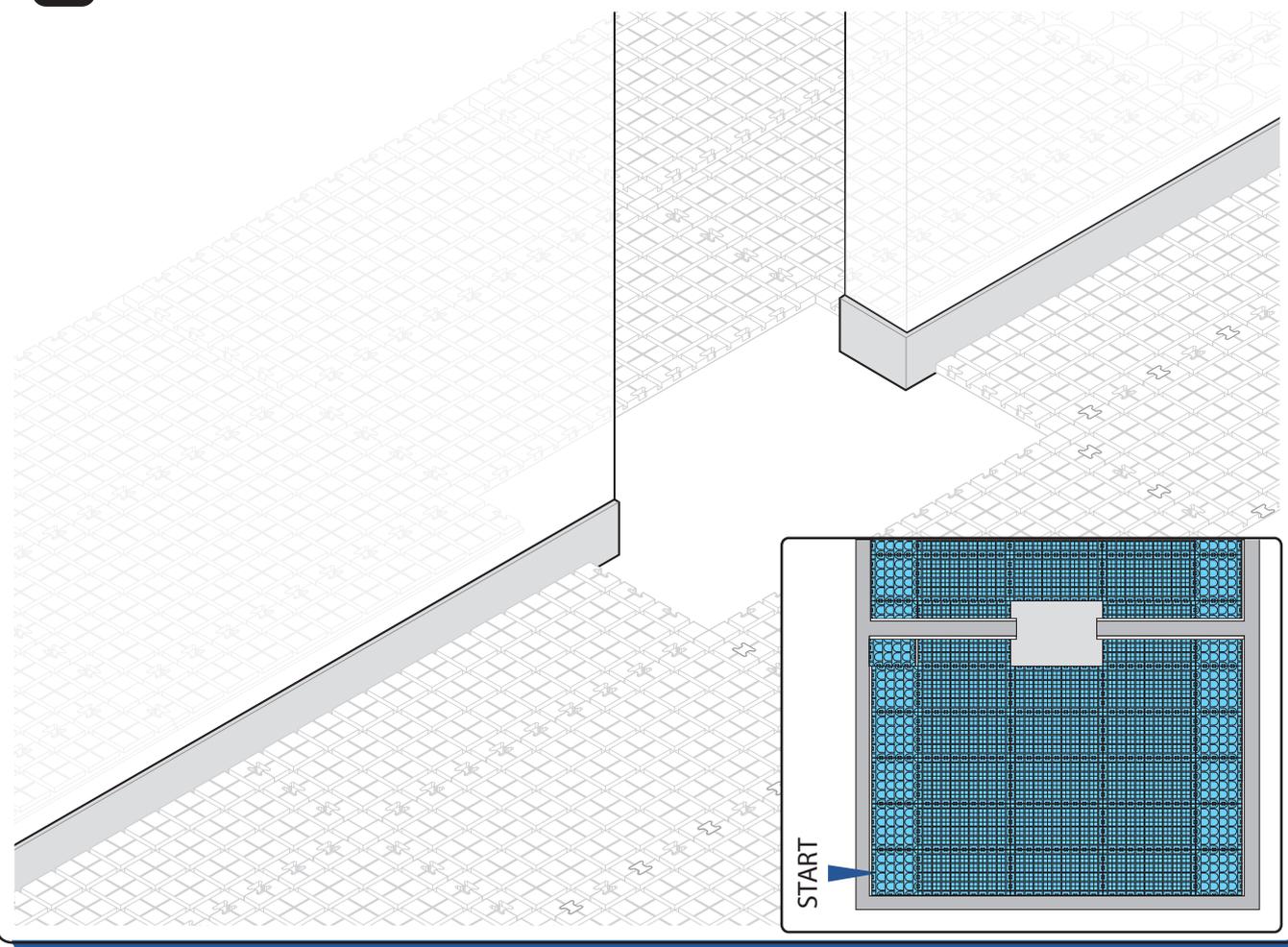




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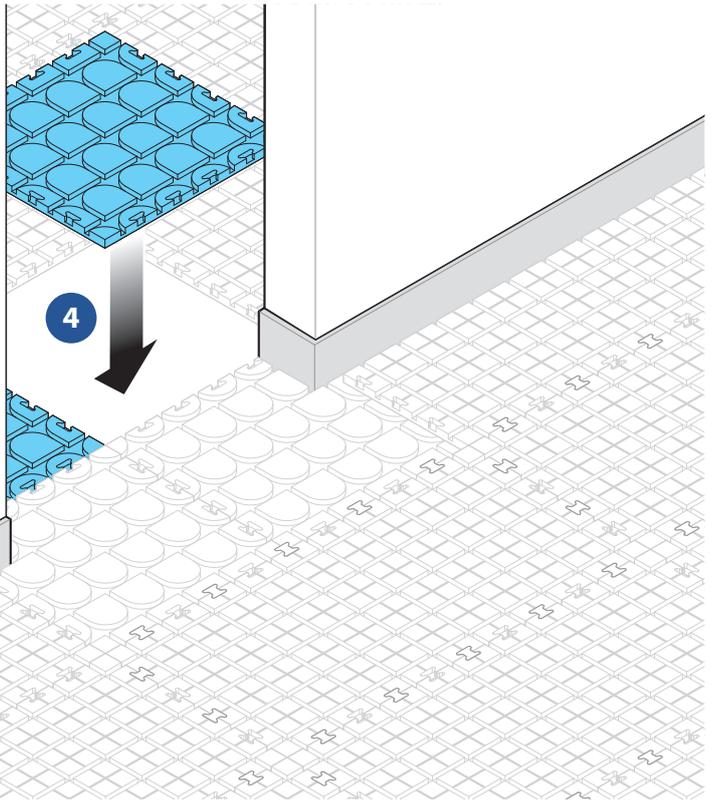
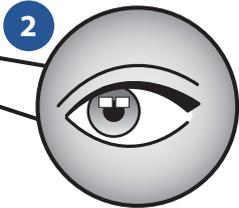
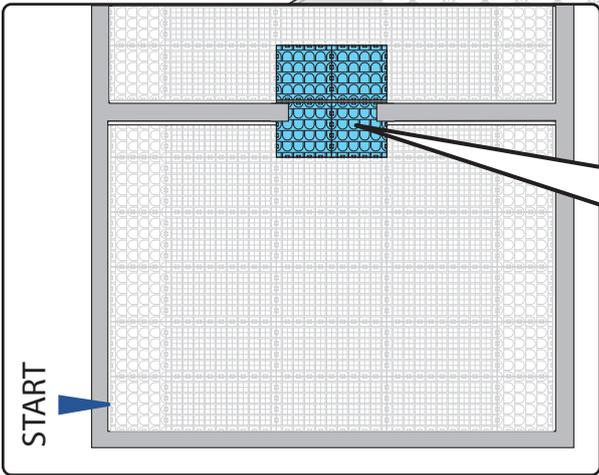
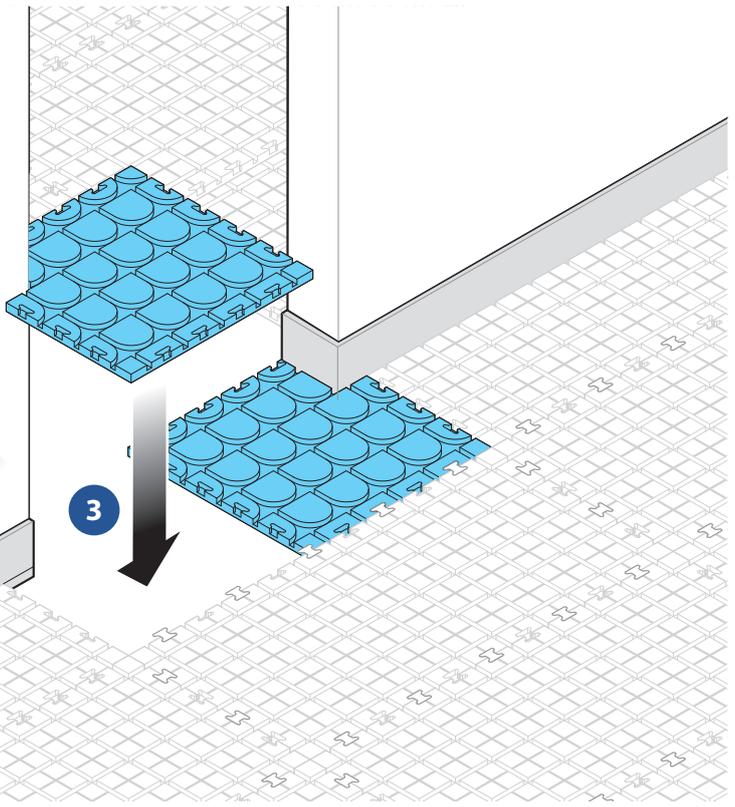


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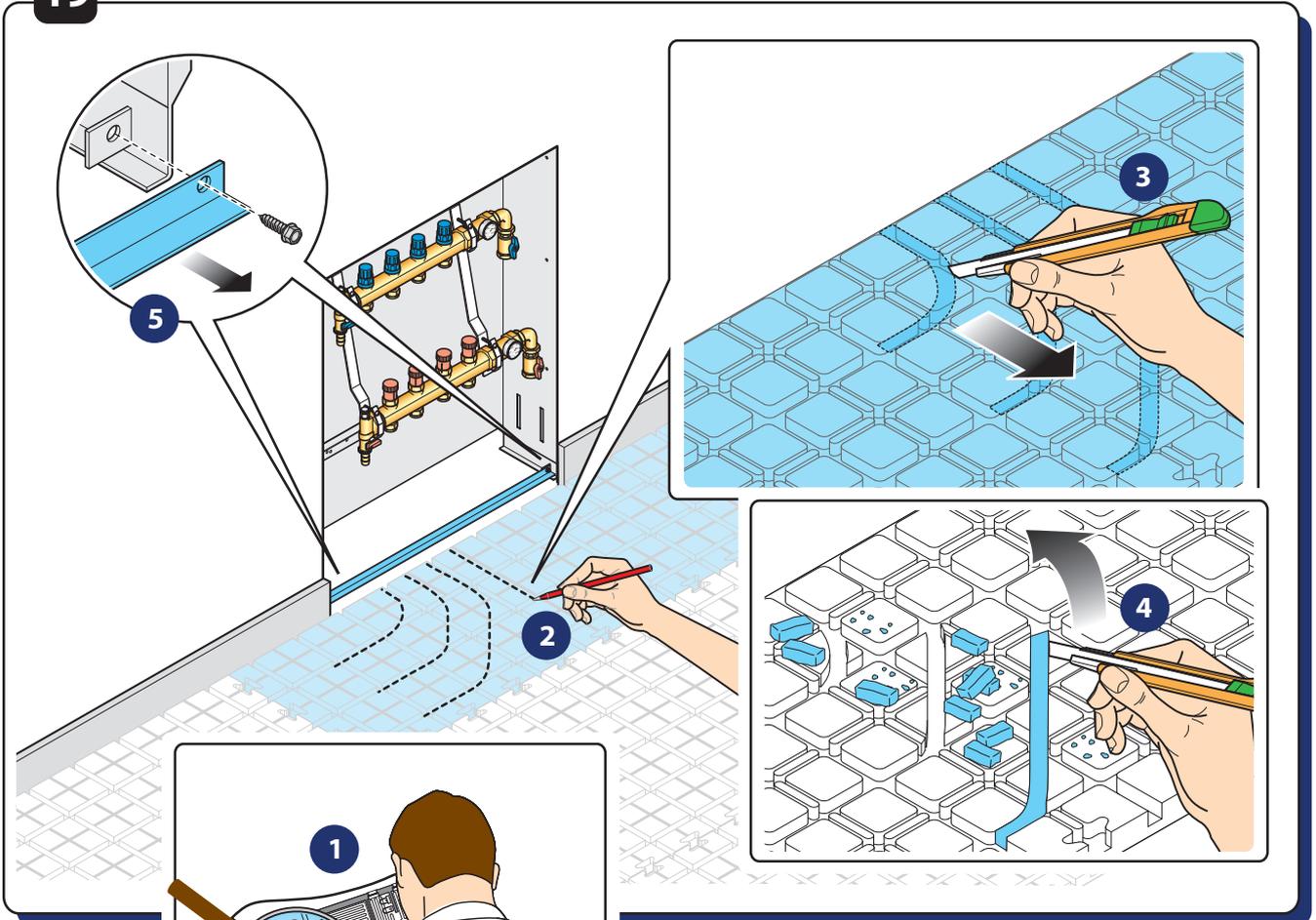




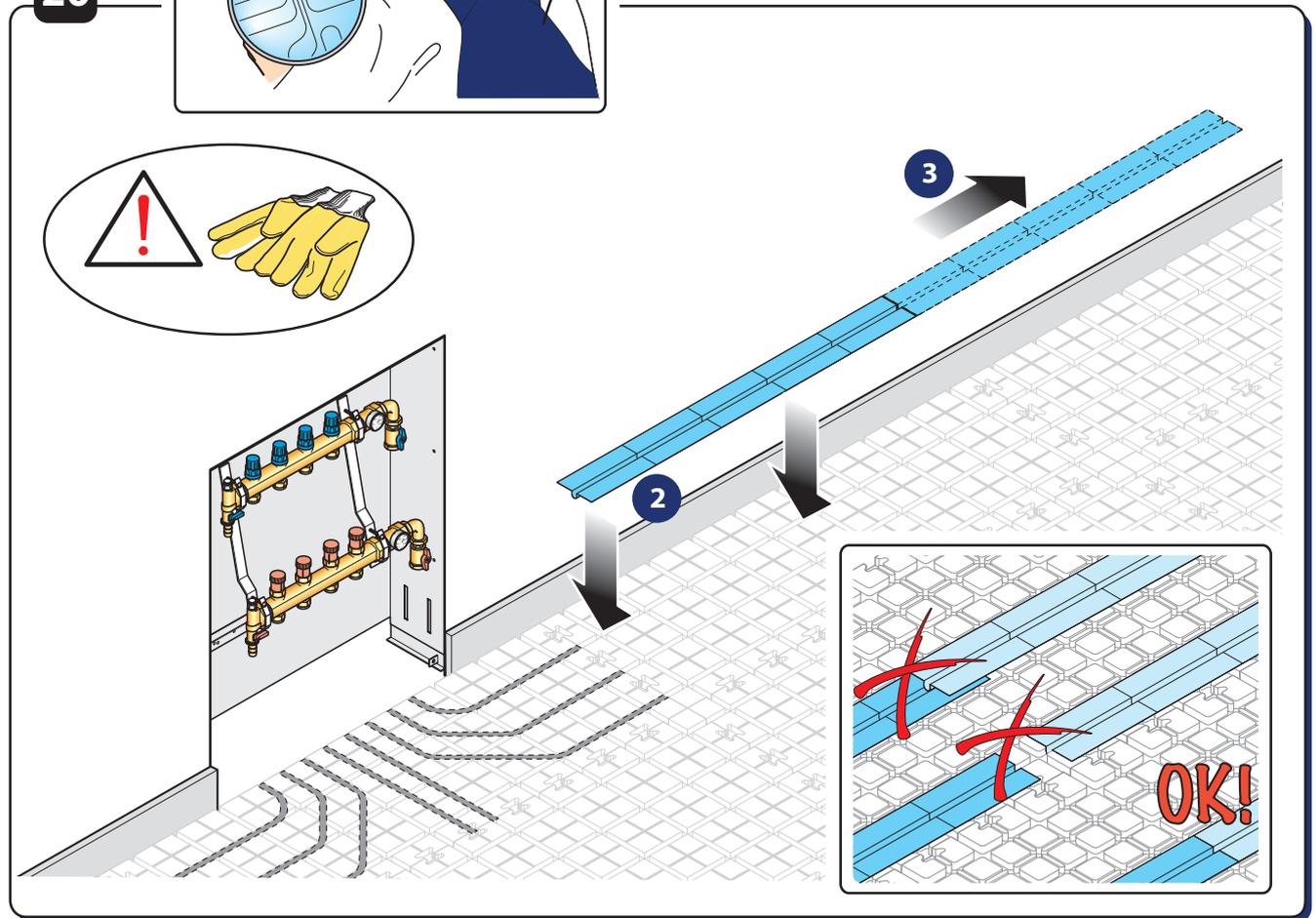
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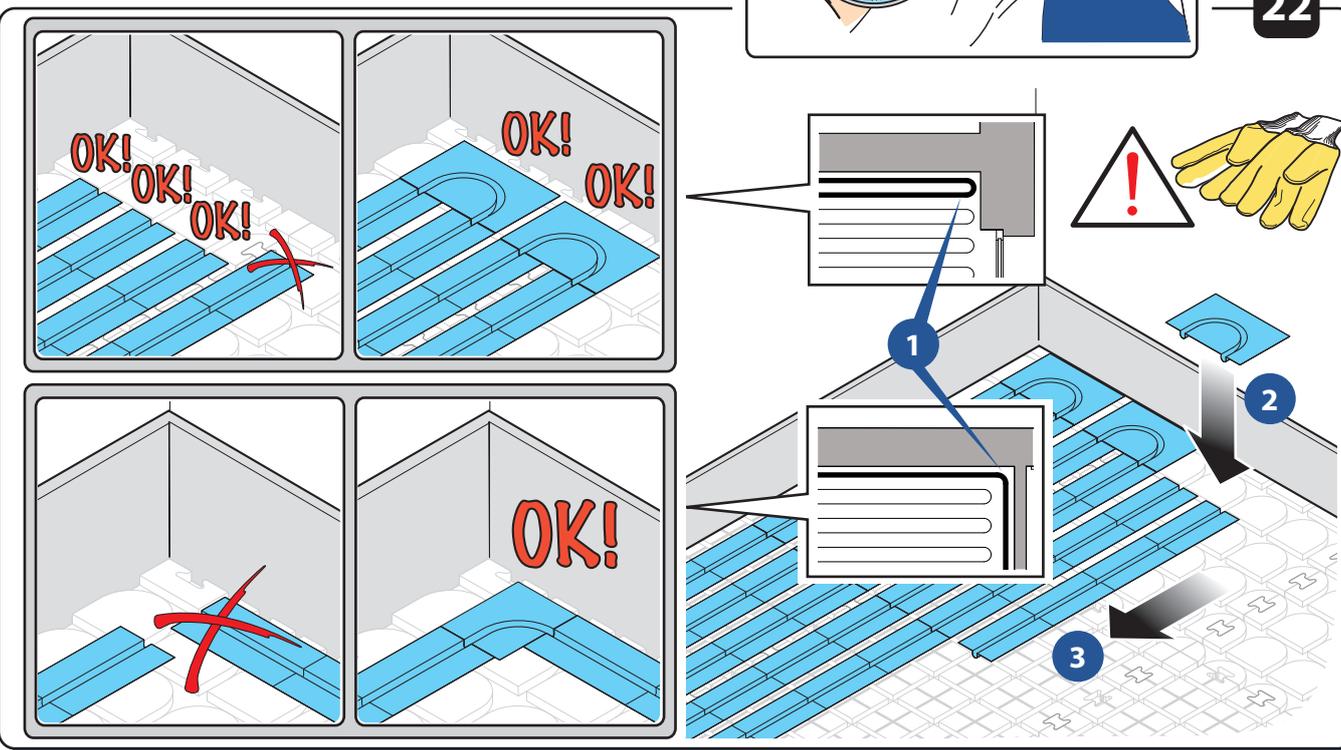
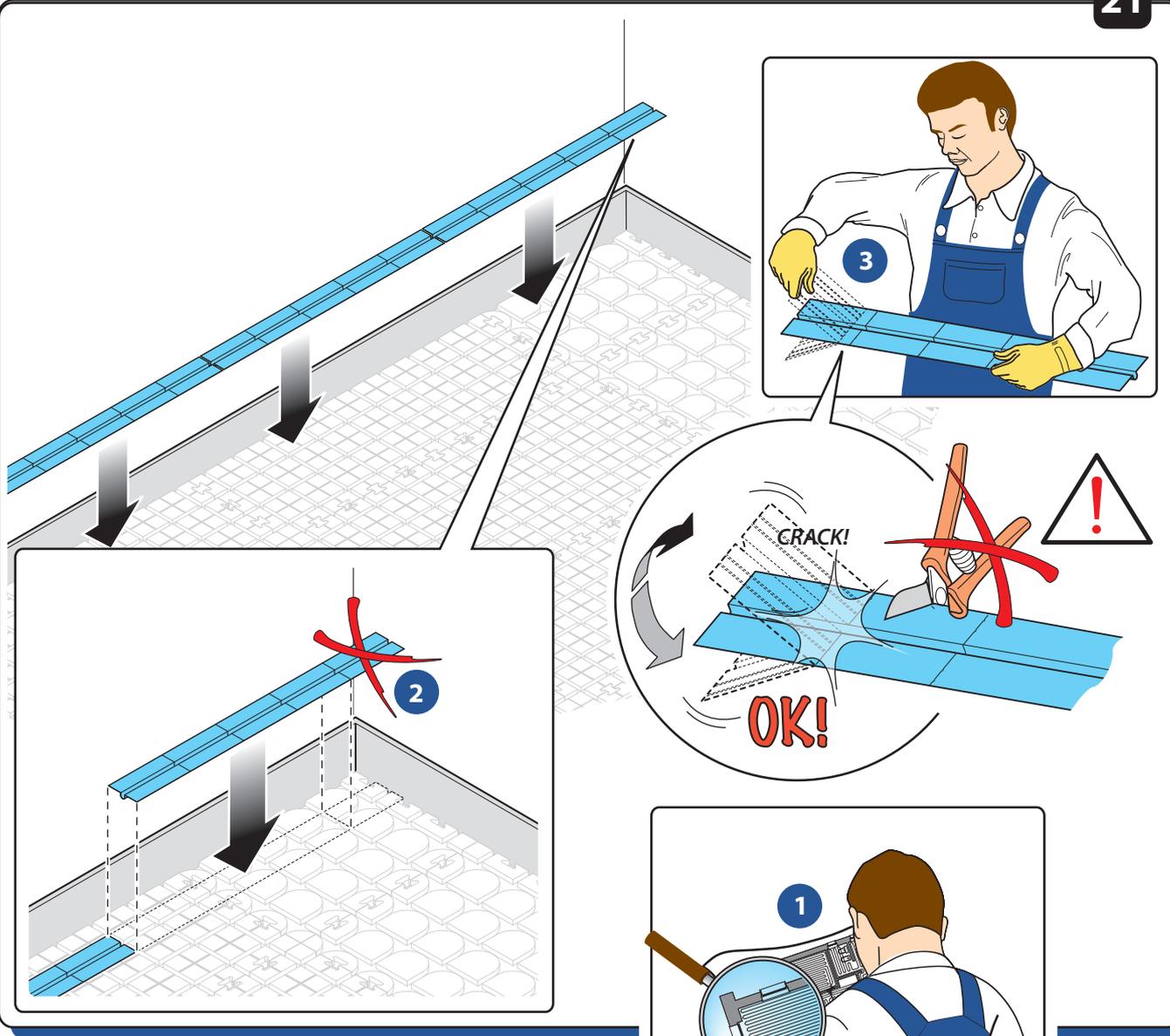


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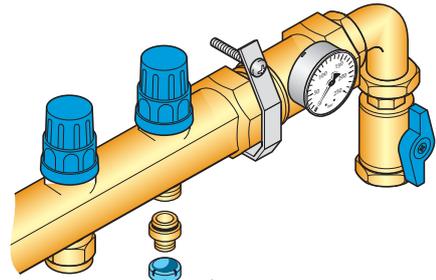
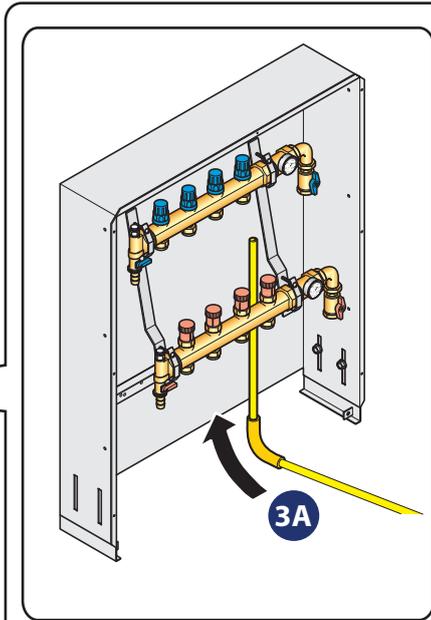
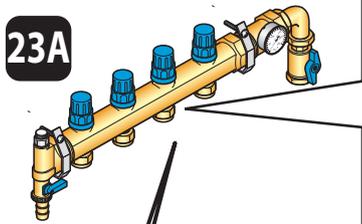
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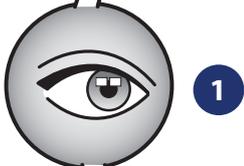
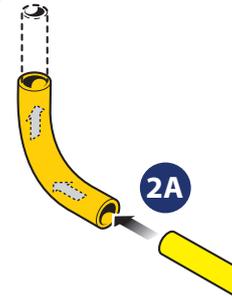


CONTROL  
TOP-CONTROL

23A

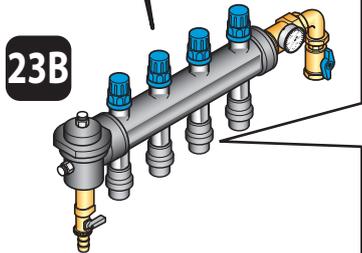


23A

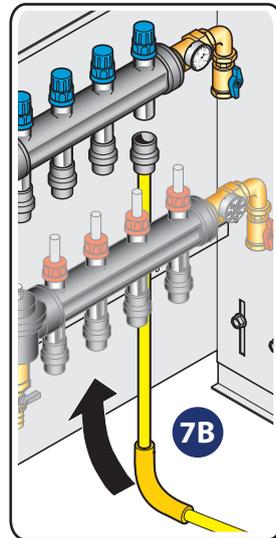
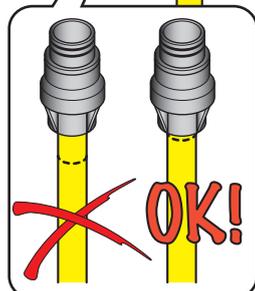
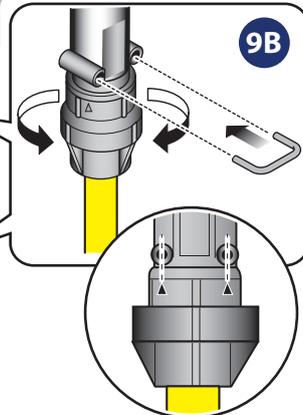
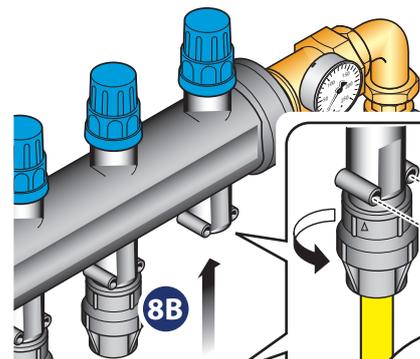
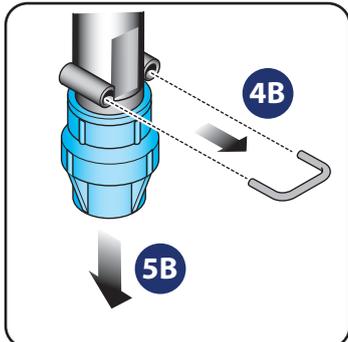
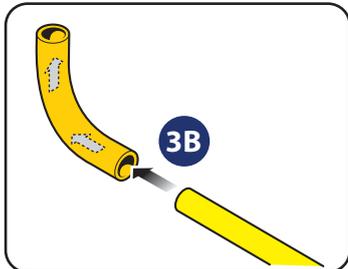
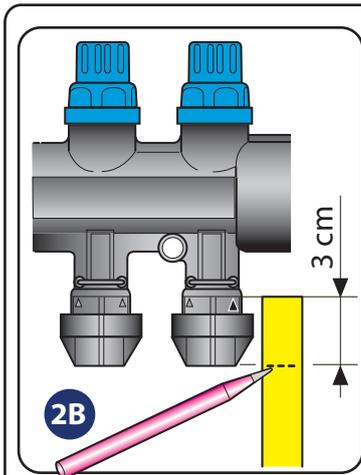


1

23B



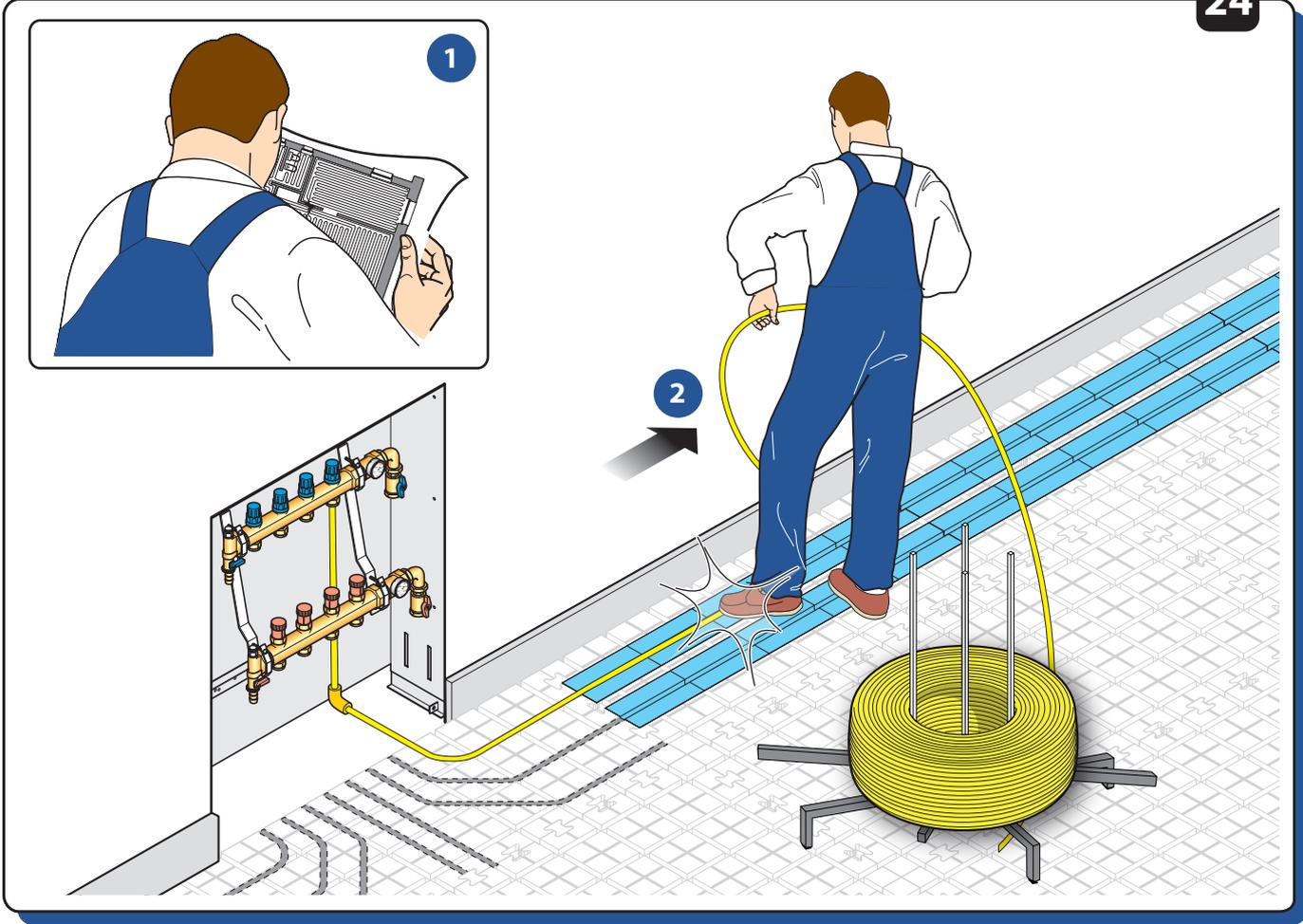
TOP-COMPOSIT



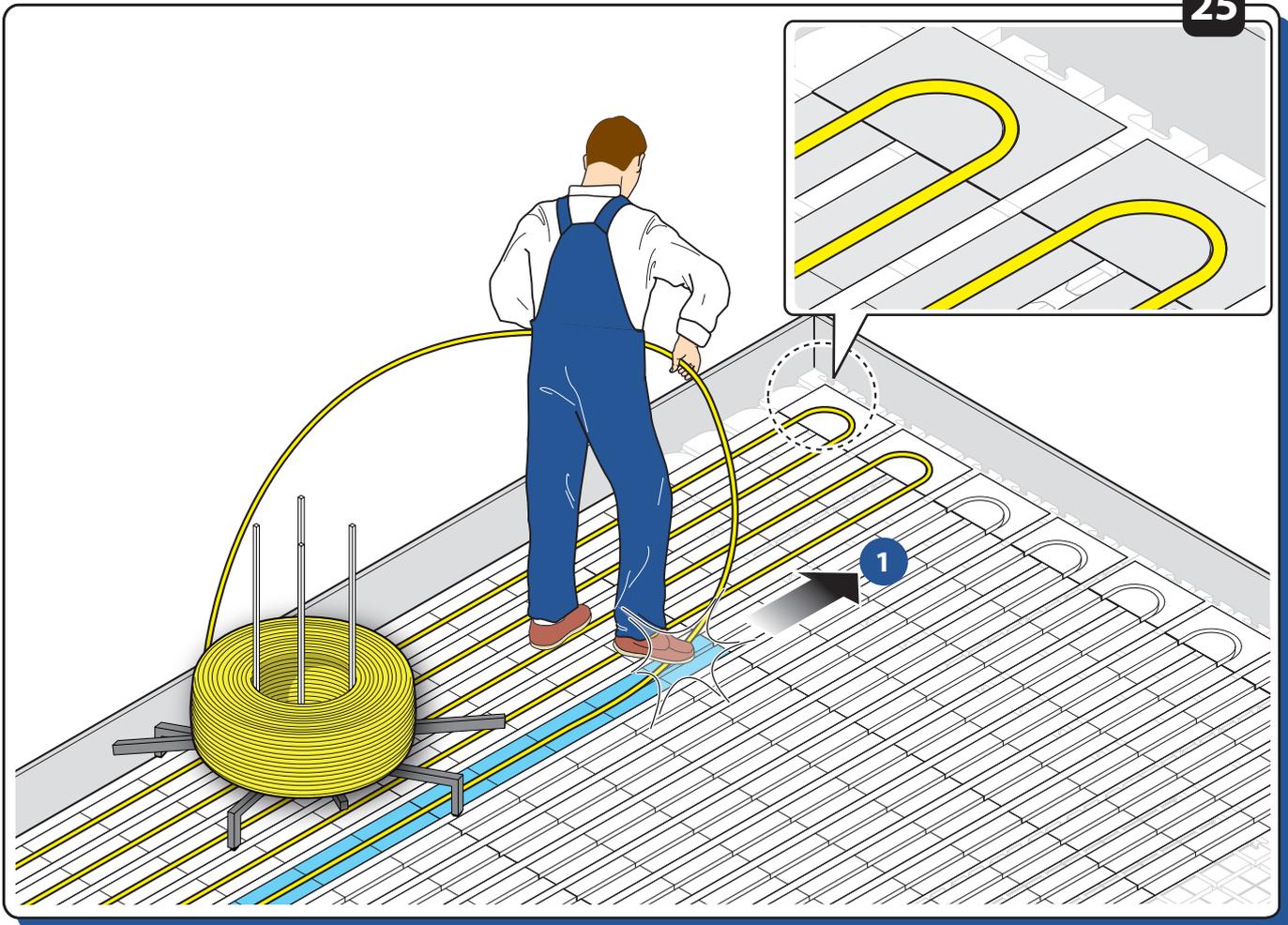
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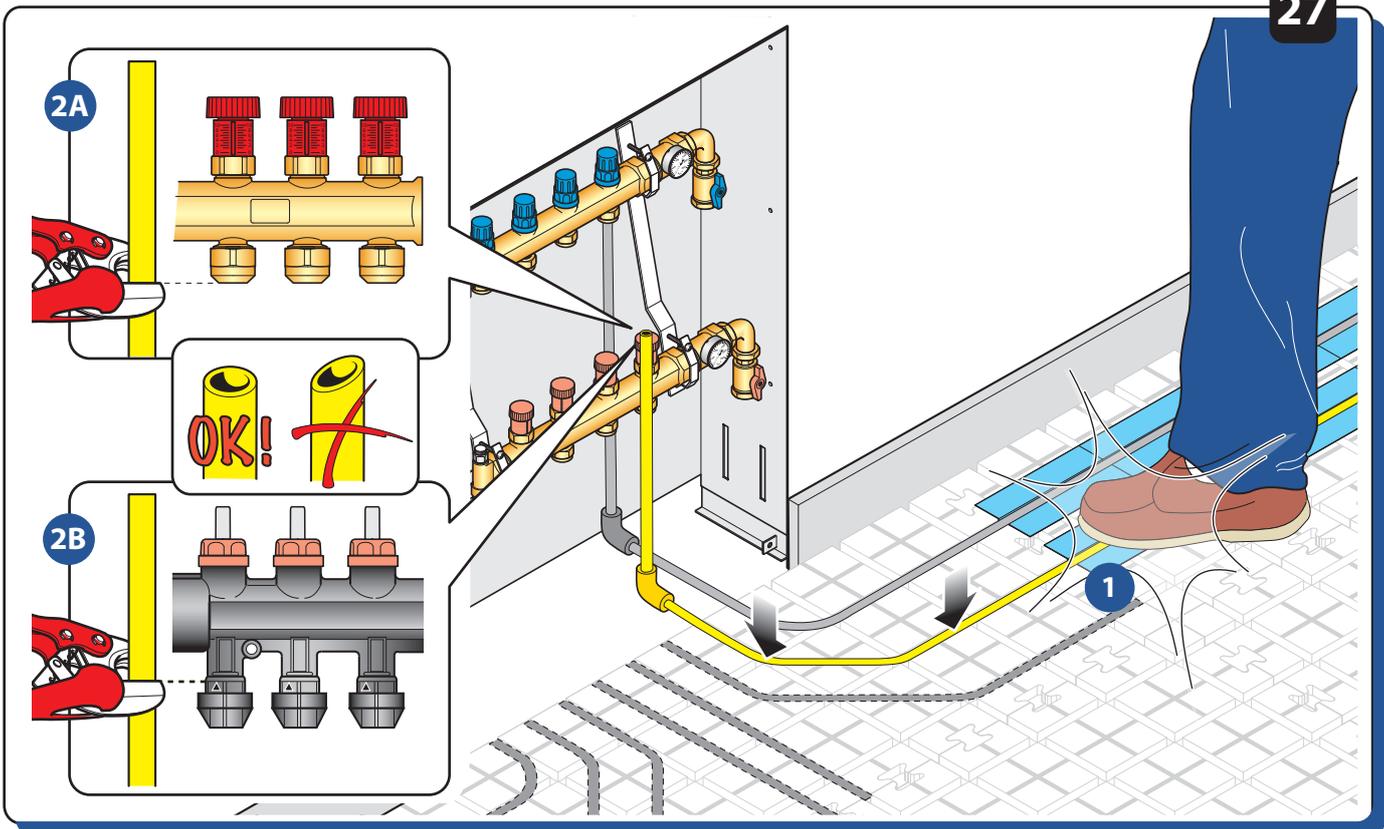
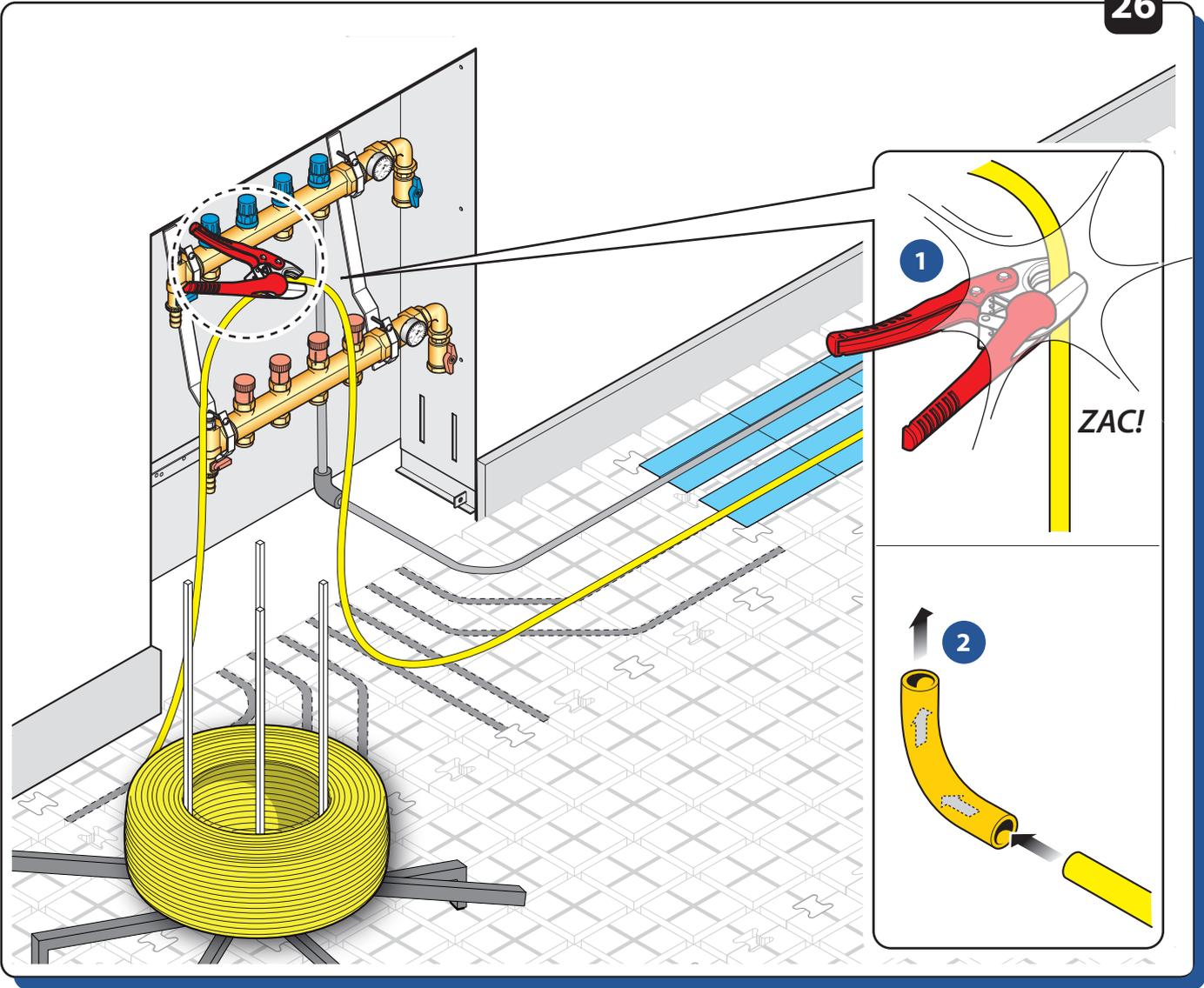


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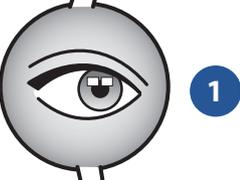
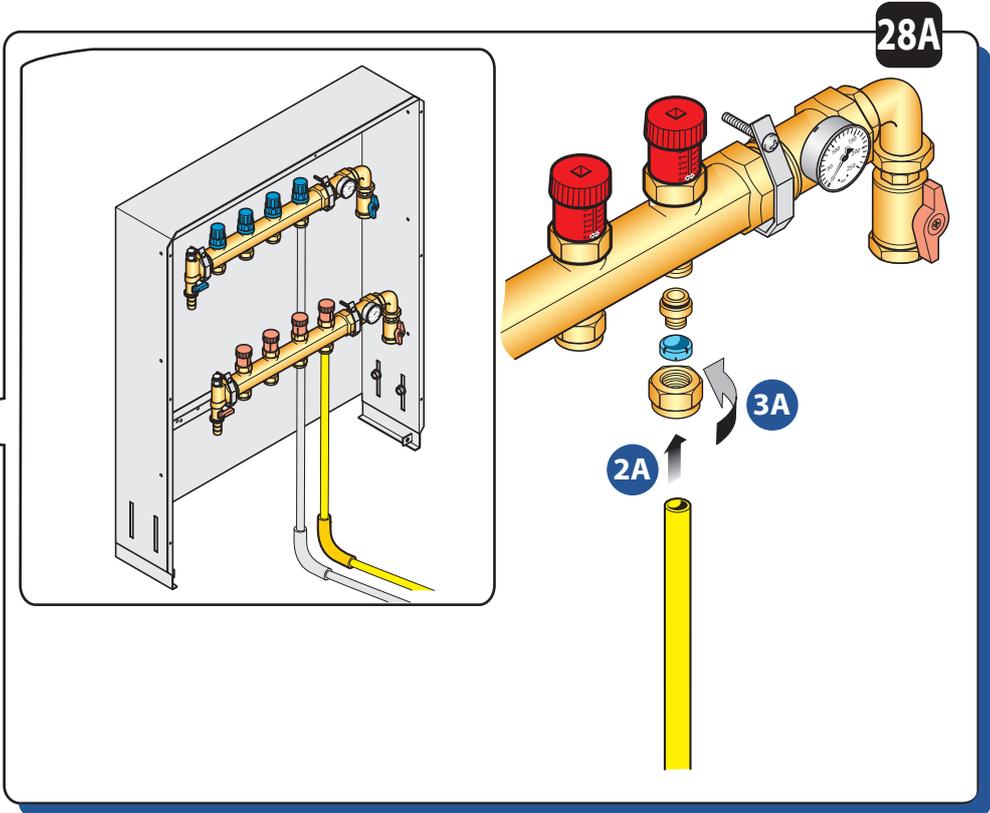






**CONTROL  
TOP-CONTROL**

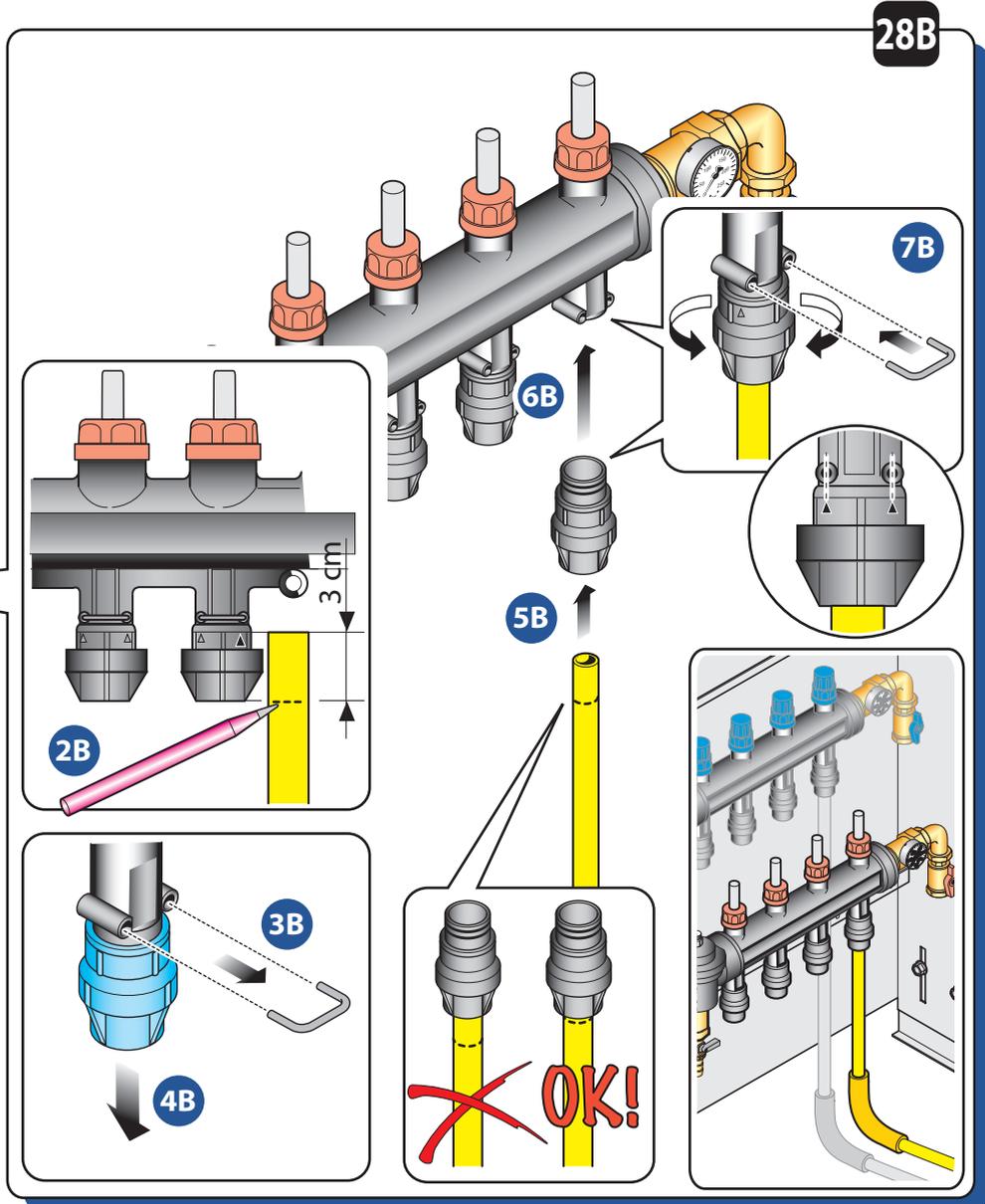
**28A**



**1**

**28B**

**TOP-COMPOSIT**



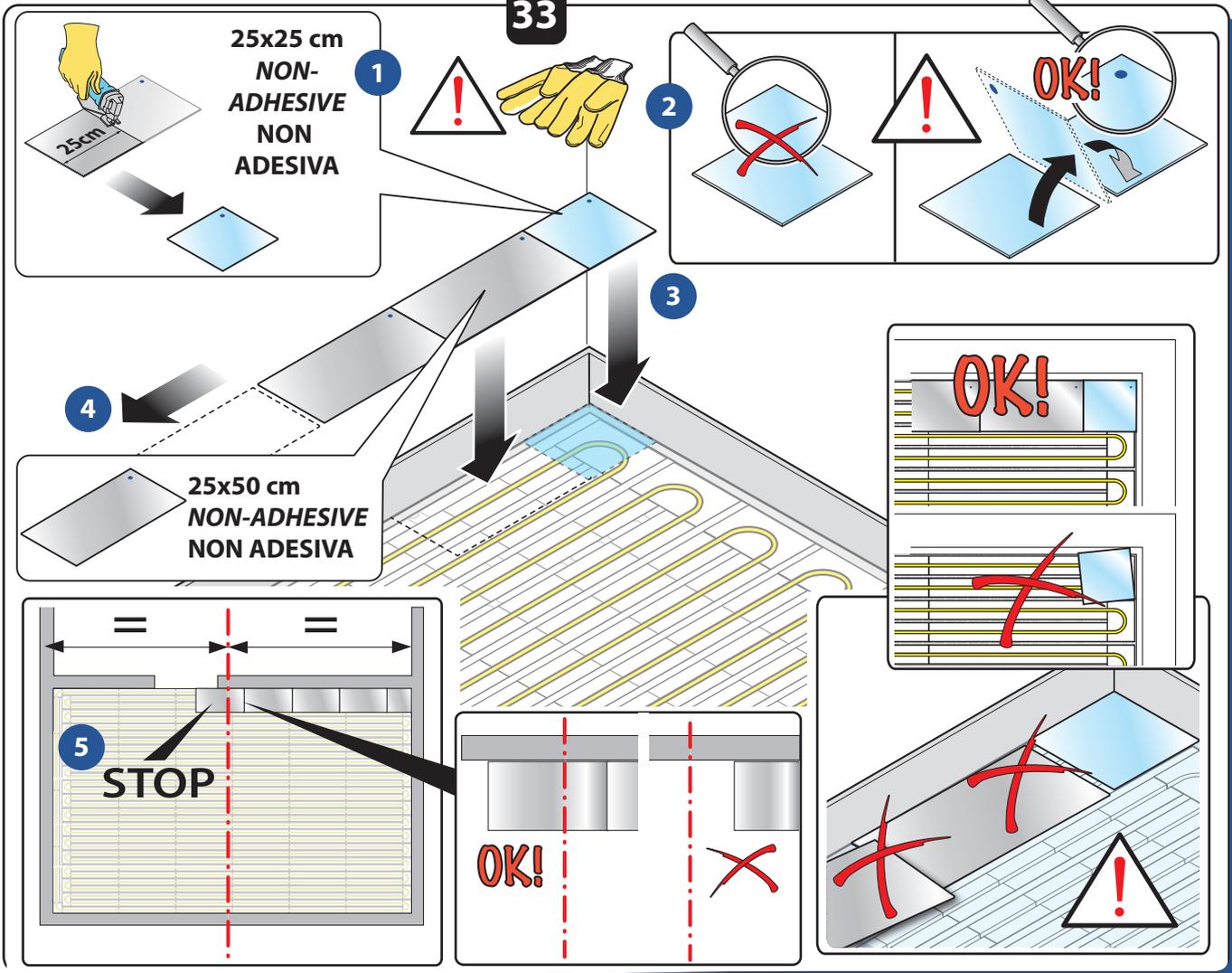


3.7 **INSTALLATION OF THE WEIGHT ZINC-PLATED STEEL PLATES**  
**POSA DELLE LASTRE IN ACCIAIO ZINCATO**

32



33





34

25x50 cm  
NON-ADHESIVE  
NON ADESIVA

1

25x25 cm  
NON-ADHESIVE  
NON ADESIVA

2

3

4  
**STOP**

5

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7

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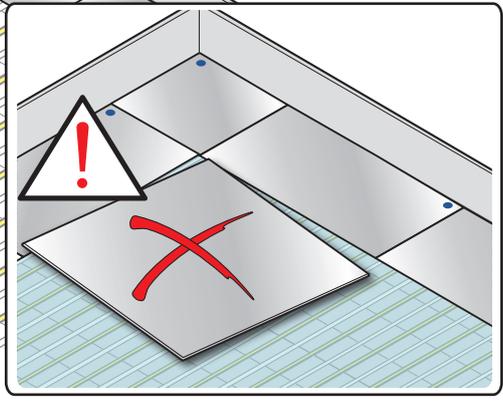
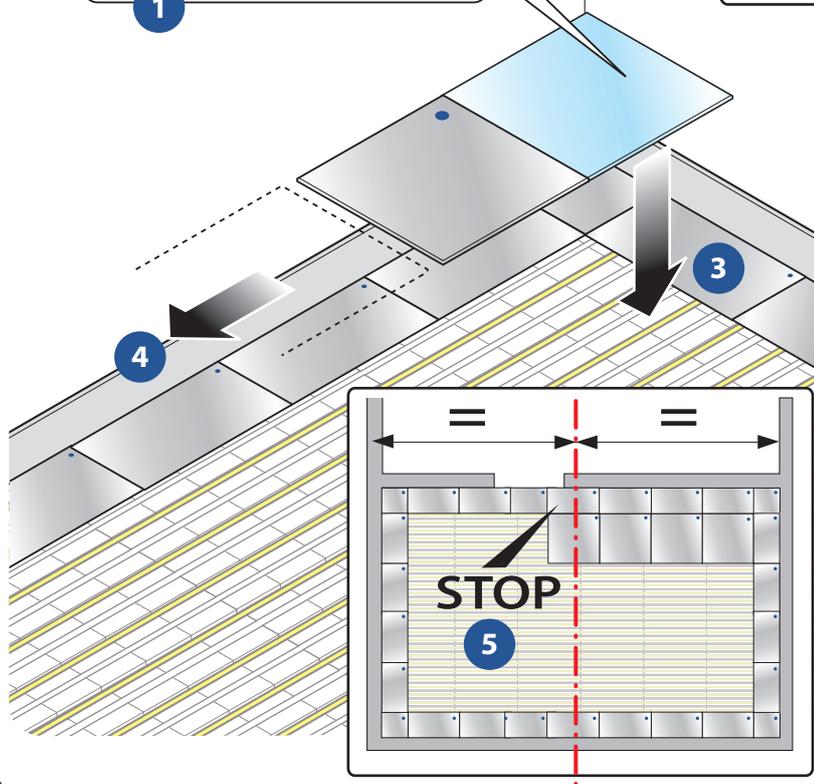
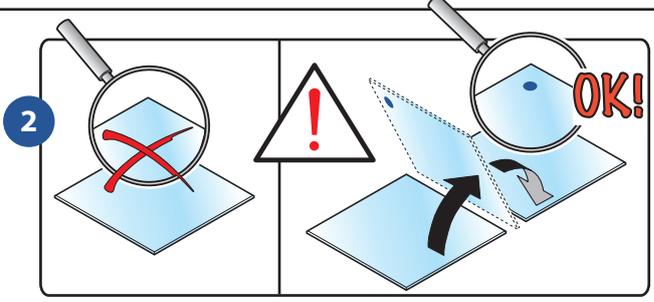
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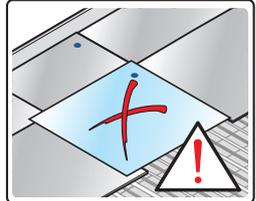
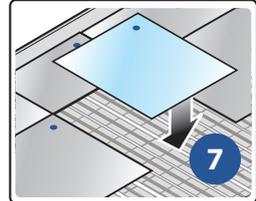
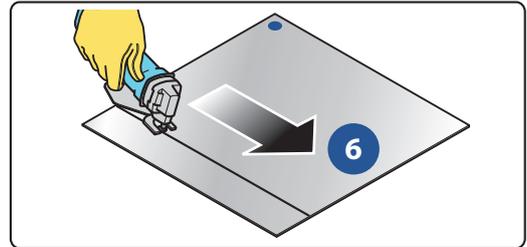
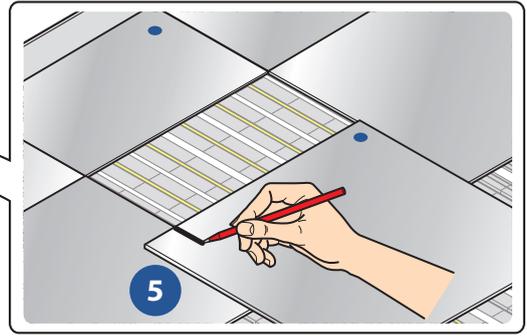
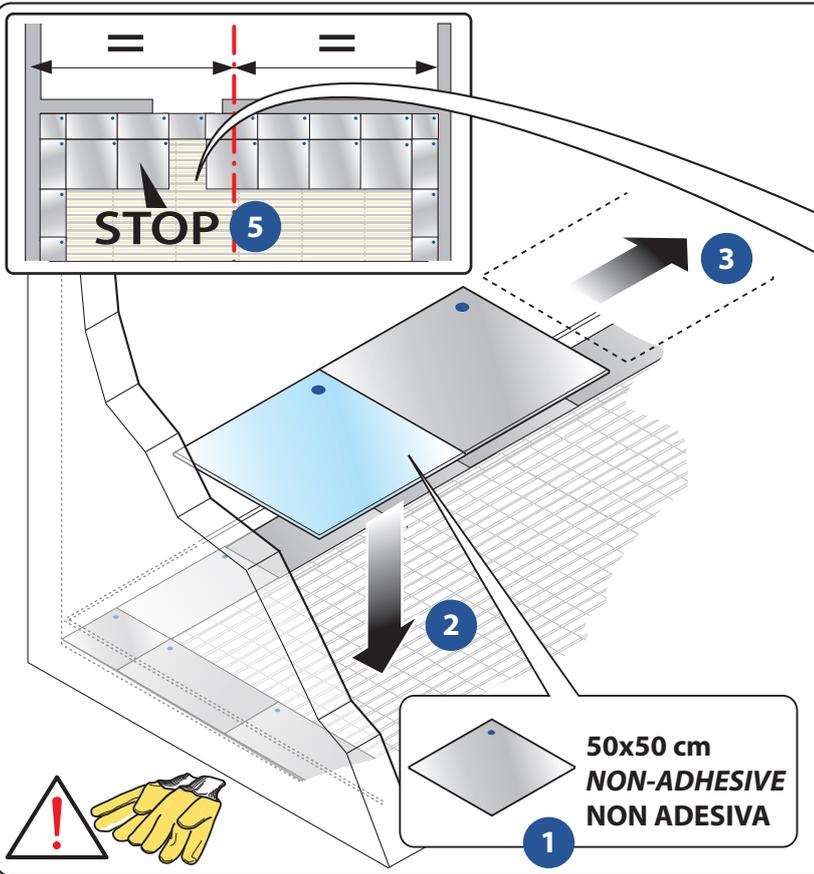
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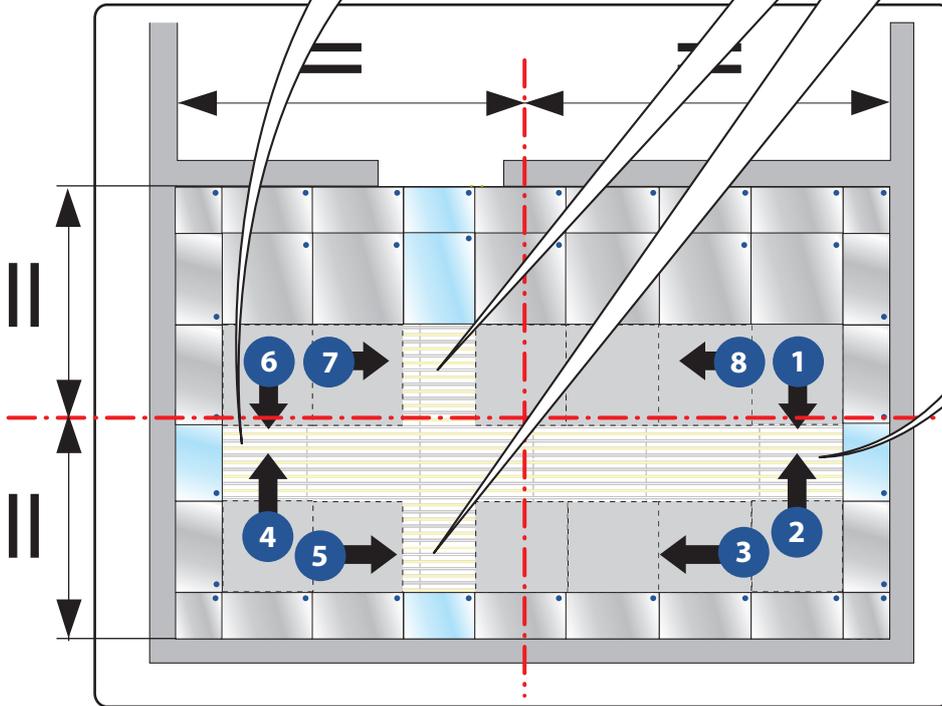
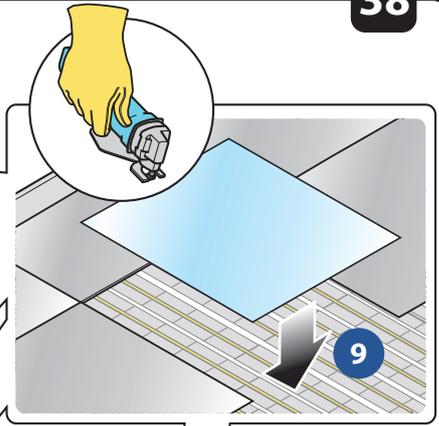
50x50 cm  
NON-ADHESIVE  
NON ADESIVA

1



37

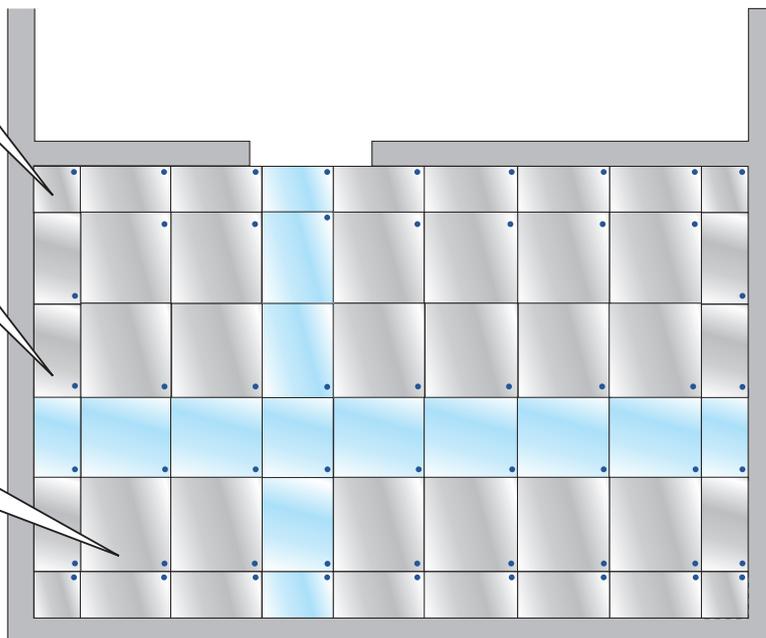




25x25 cm  
NON-ADHESIVE  
NON ADESIVA

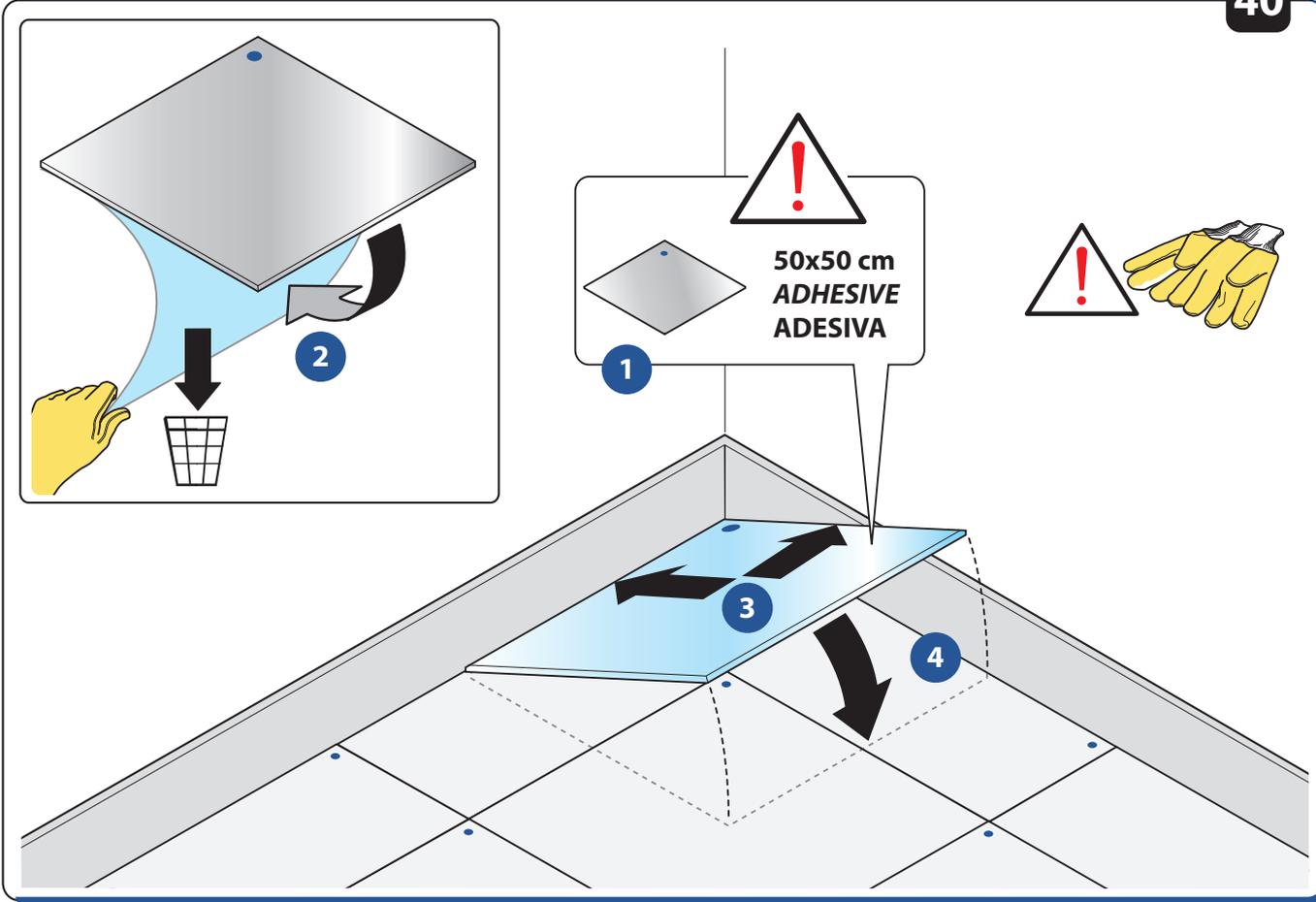
25x50 cm  
NON-ADHESIVE  
NON ADESIVA

50x50 cm  
NON-ADHESIVE  
NON ADESIVA

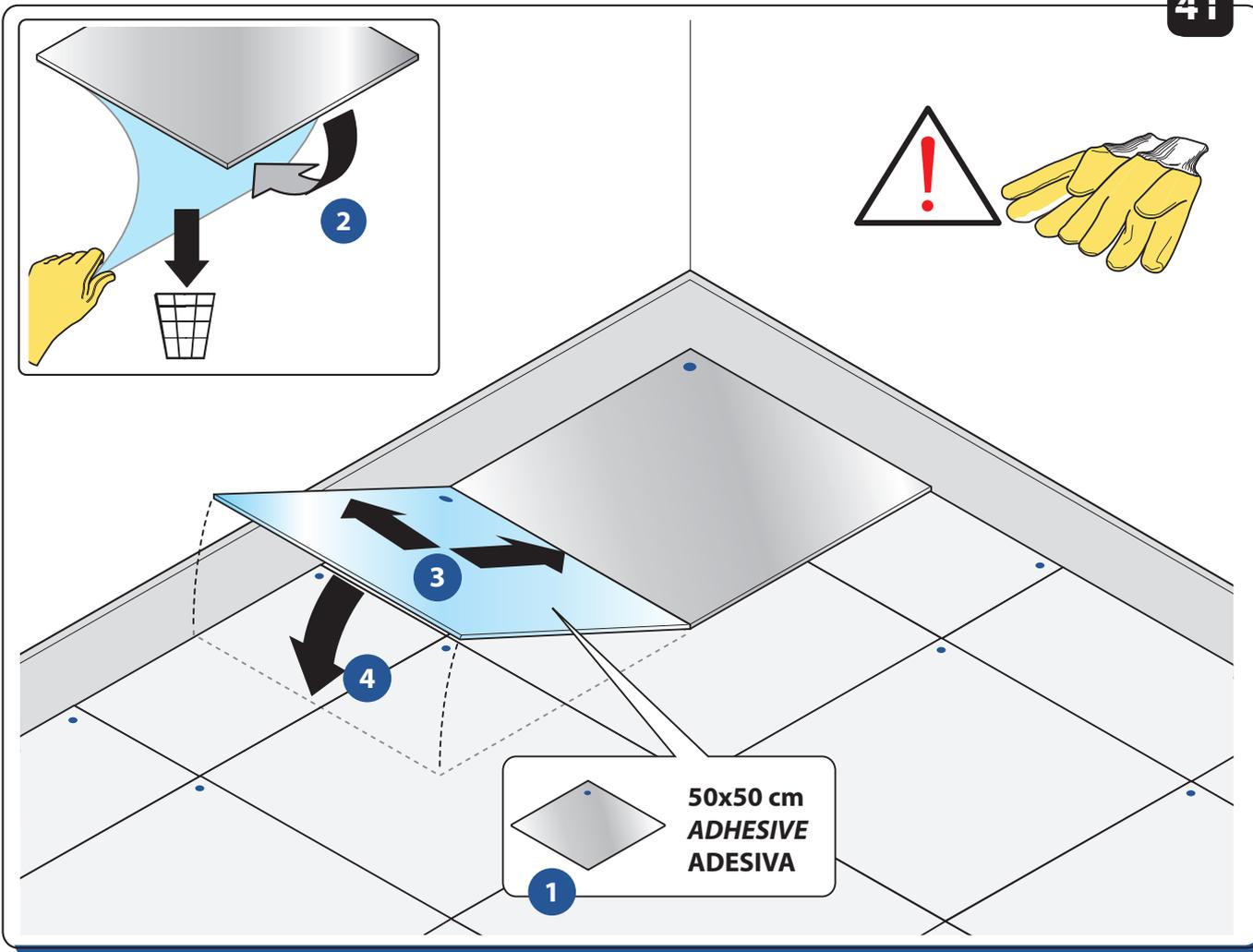


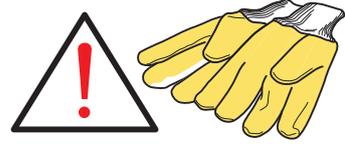
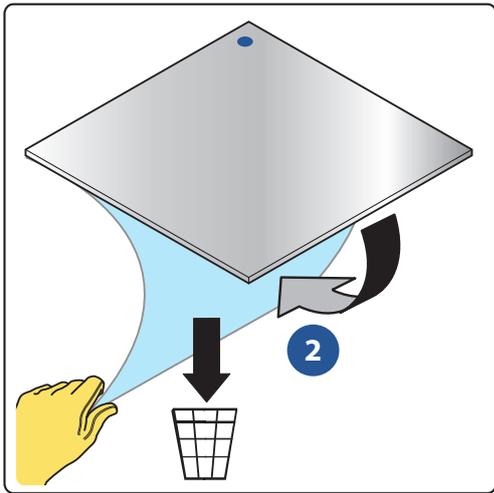


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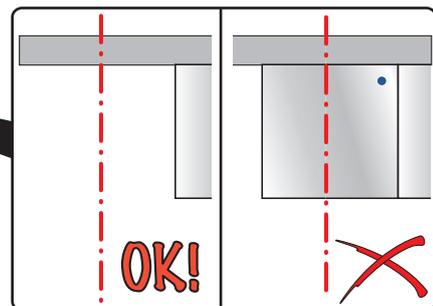
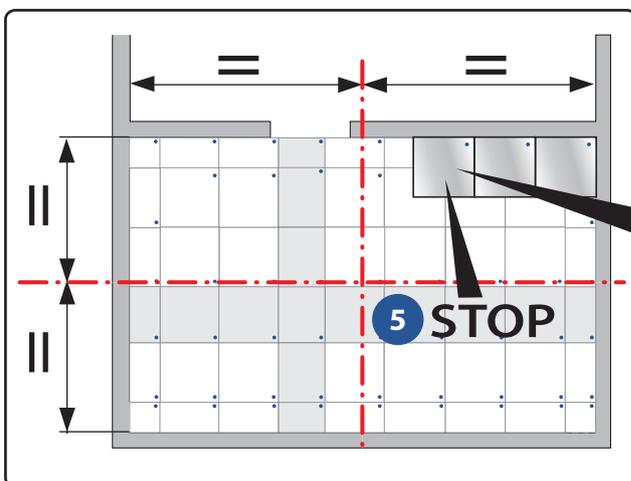
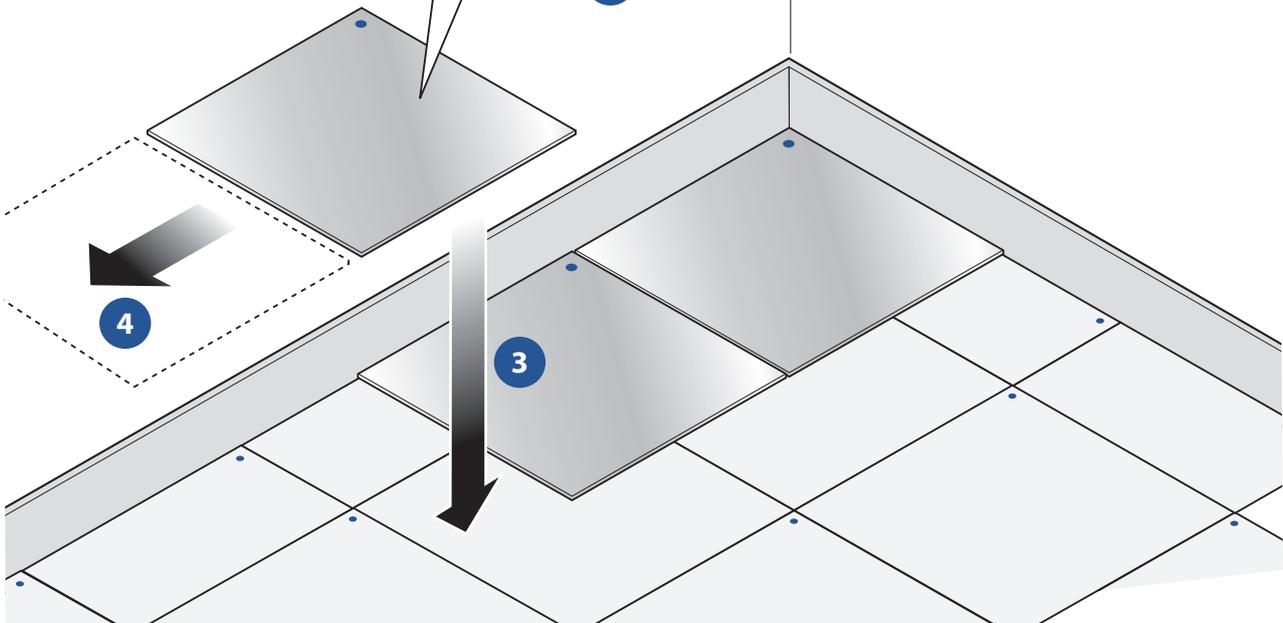
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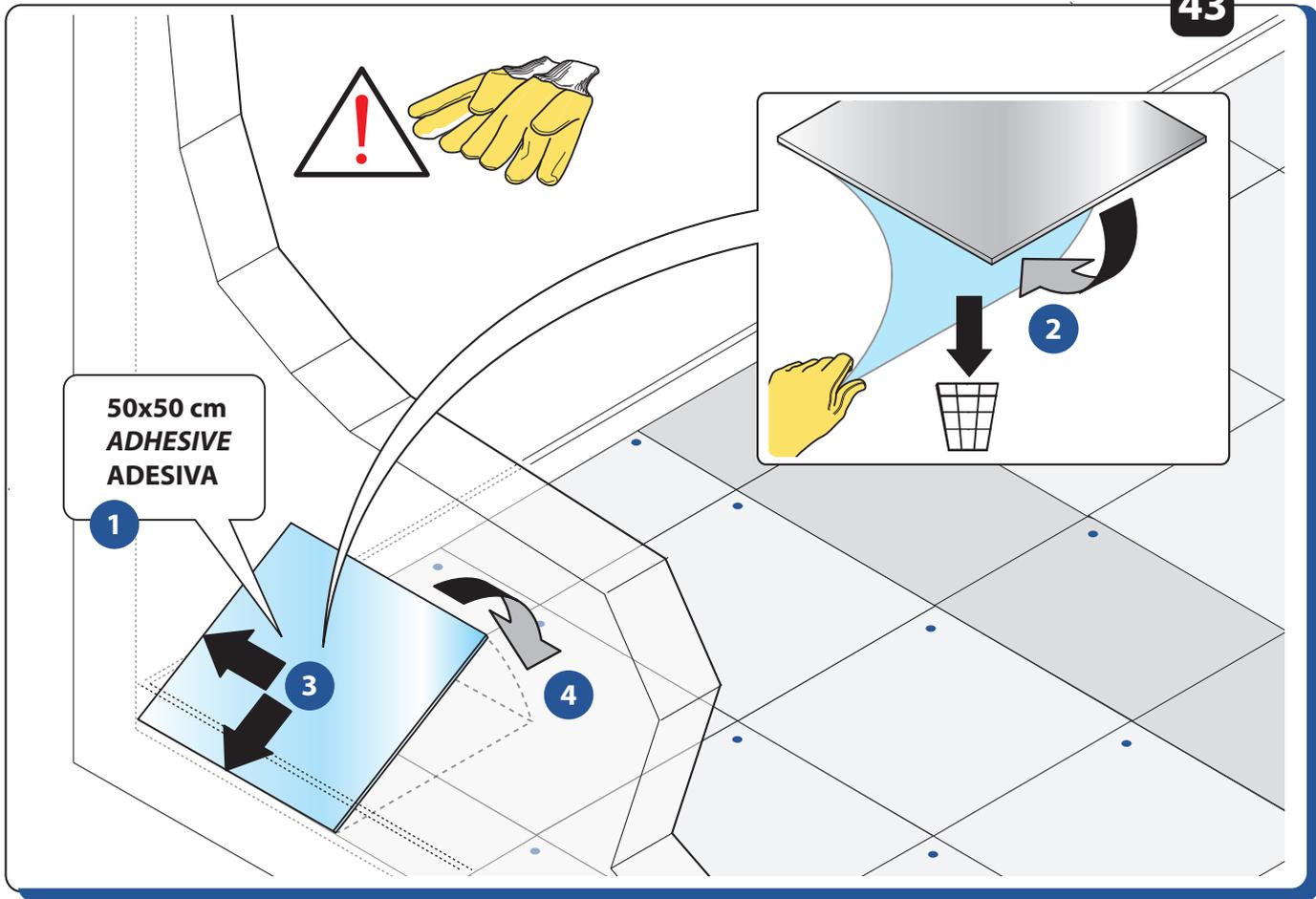
50x50 cm  
ADHESIVE  
ADESIVA

1

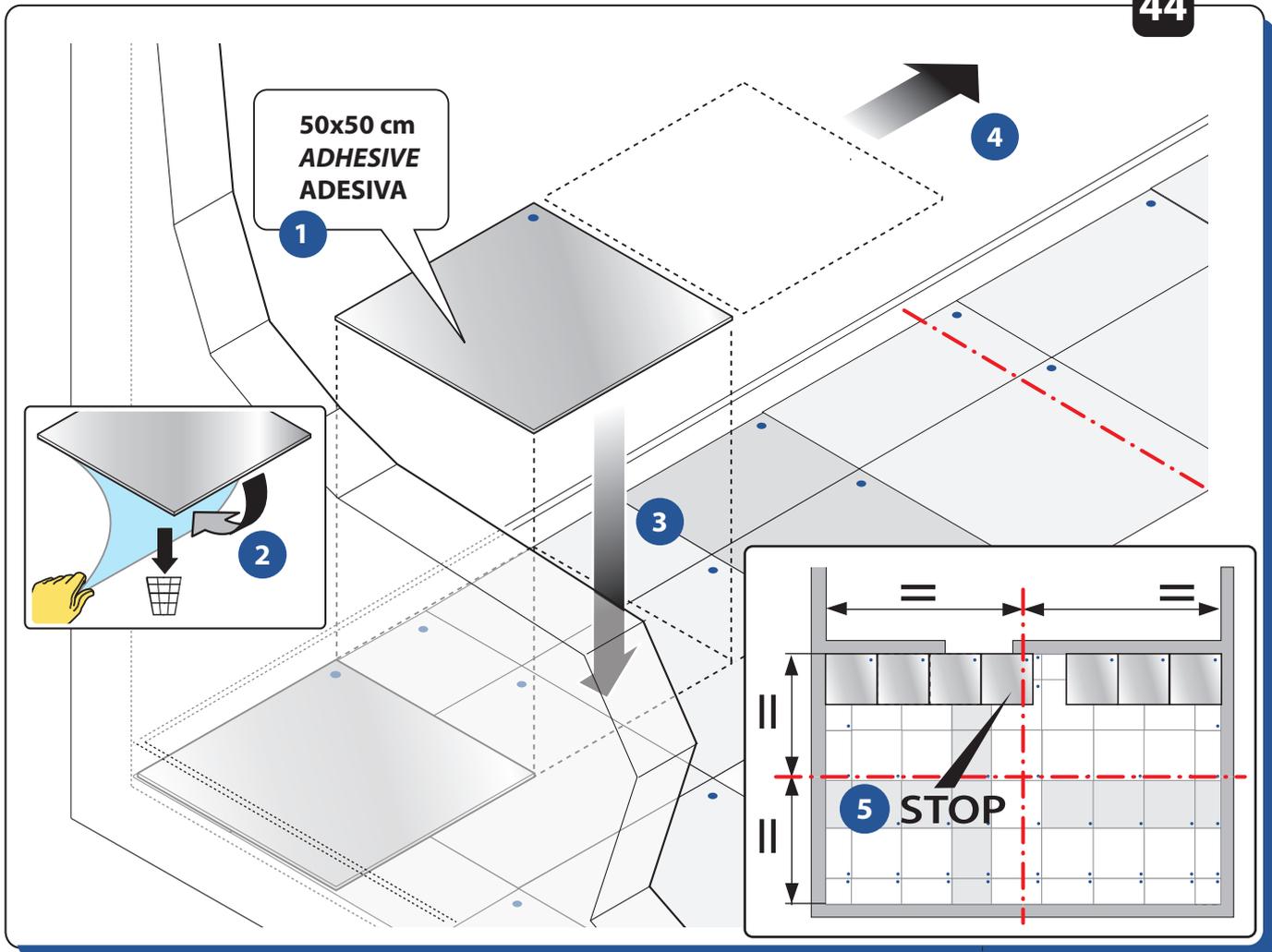




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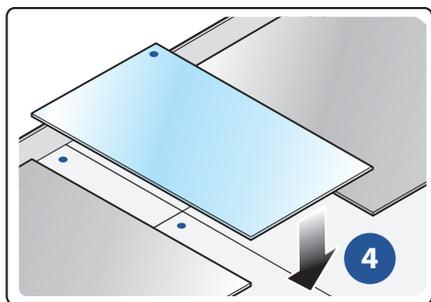
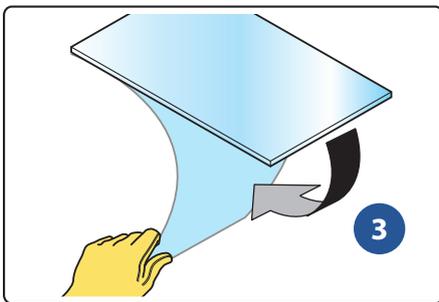
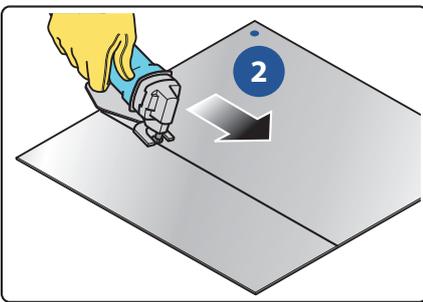
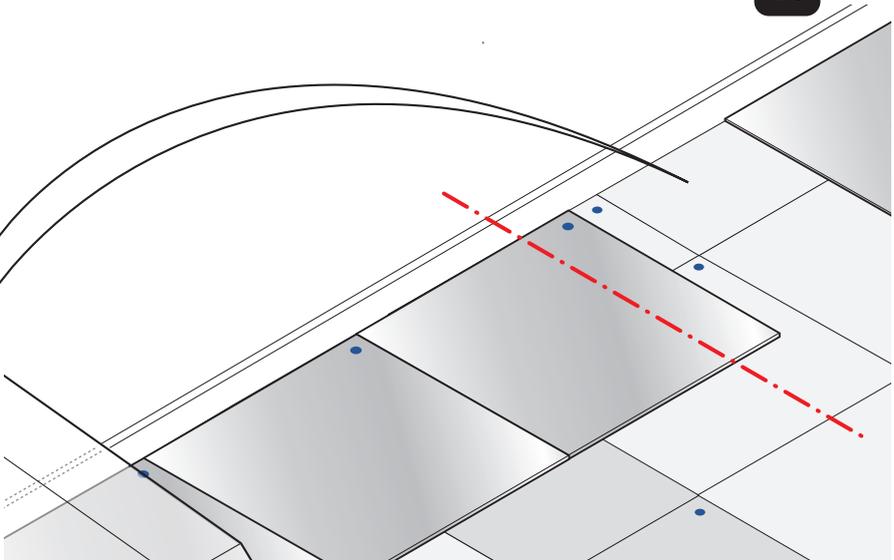
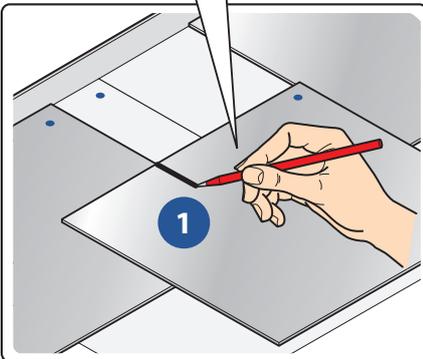
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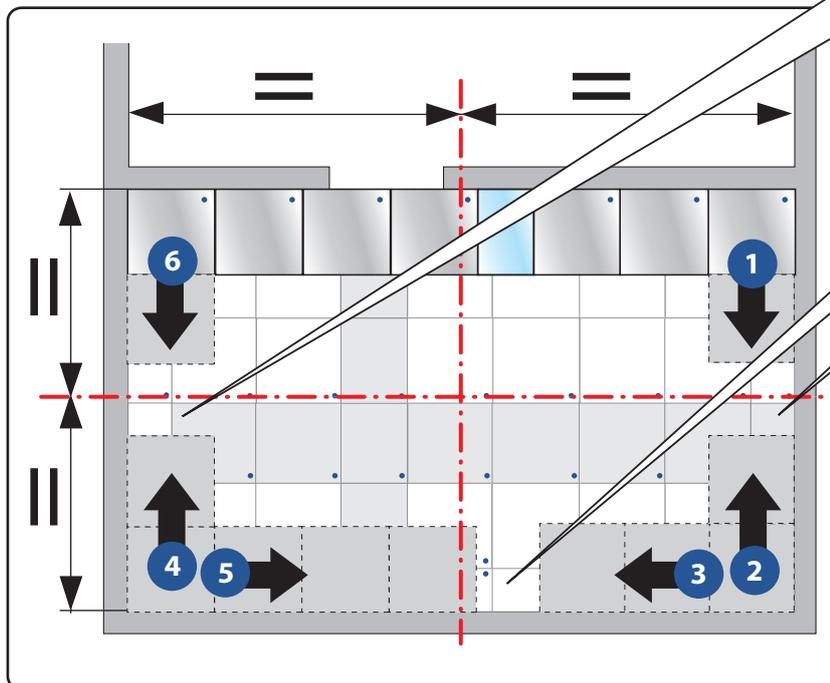
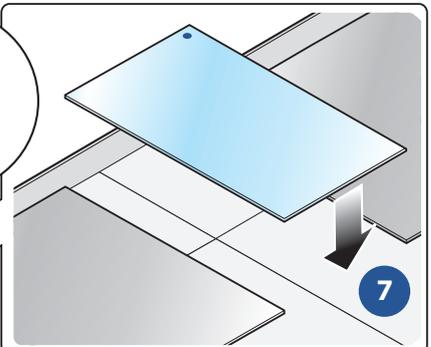
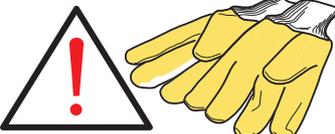


45

50x50 cm  
ADHESIVE  
ADESIVA

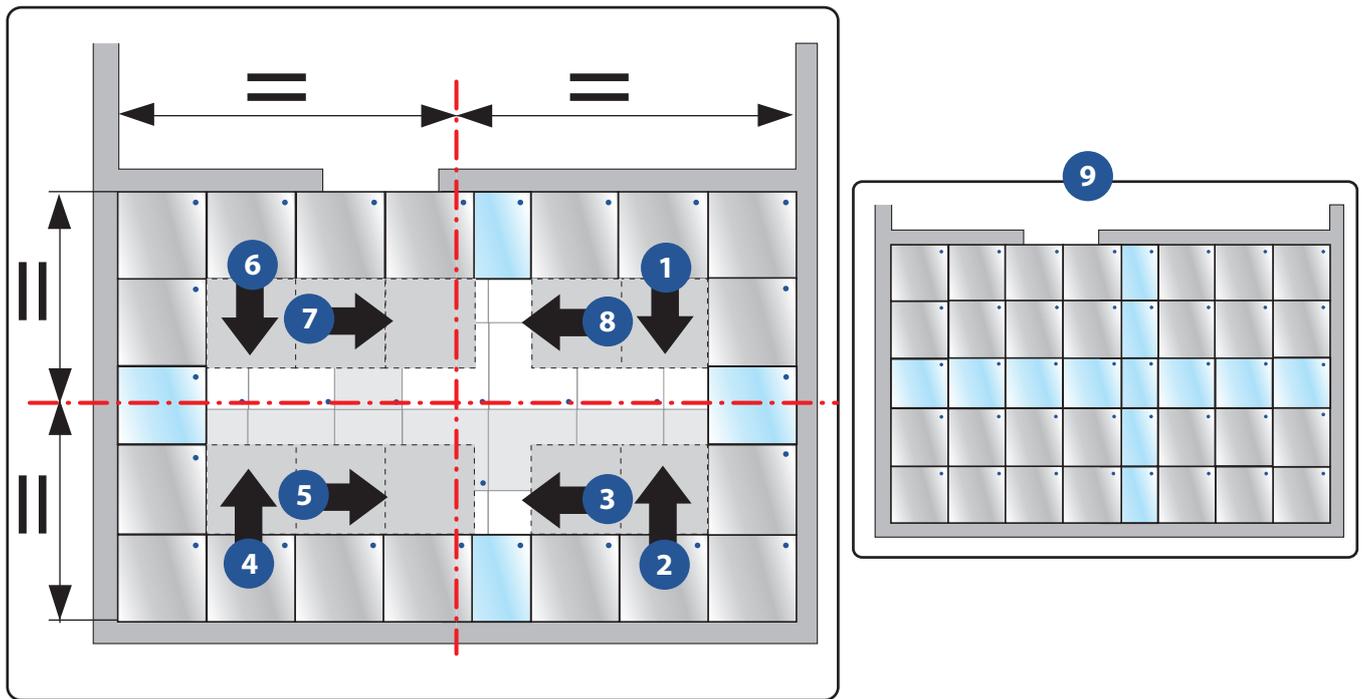


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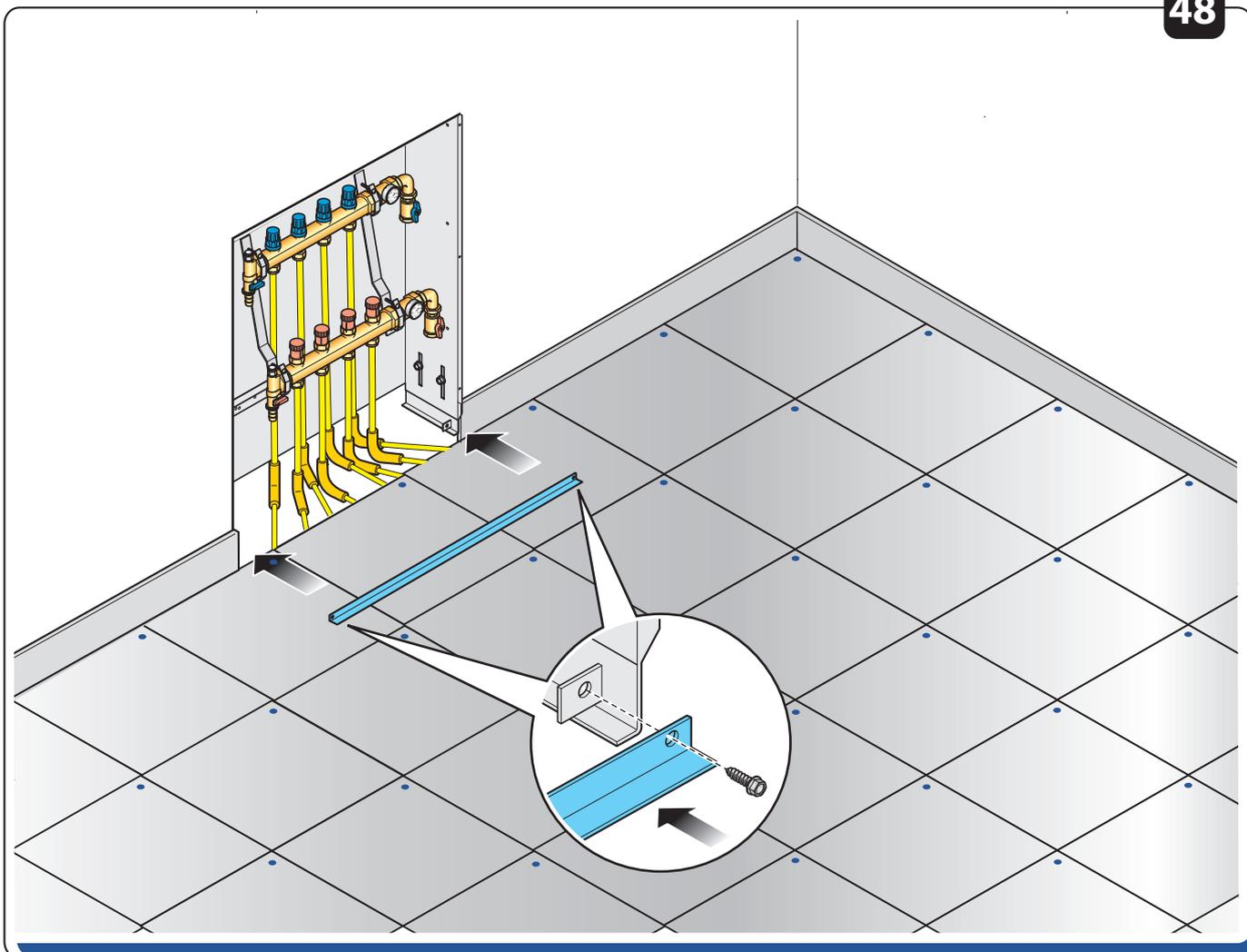




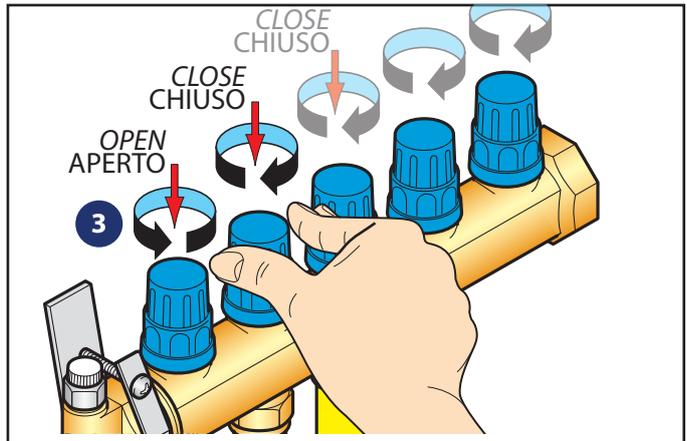
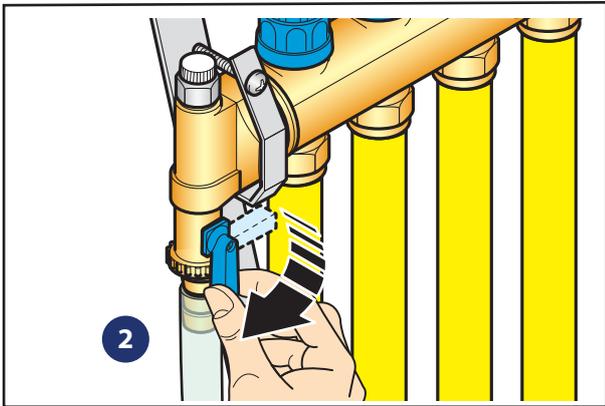
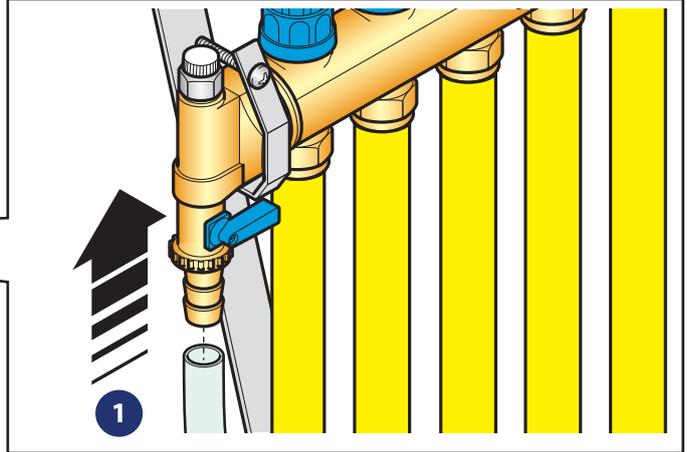
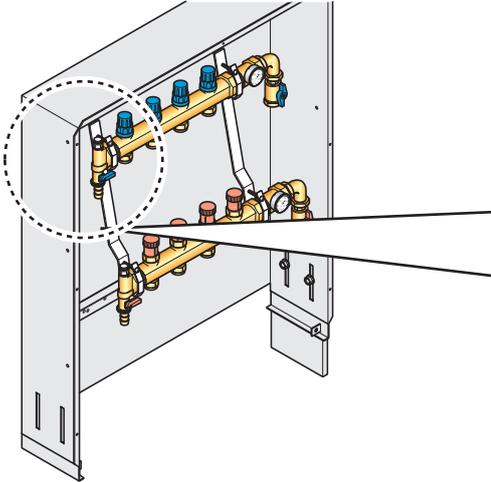
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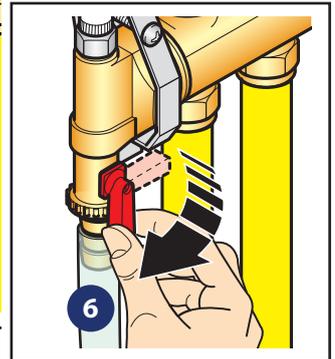
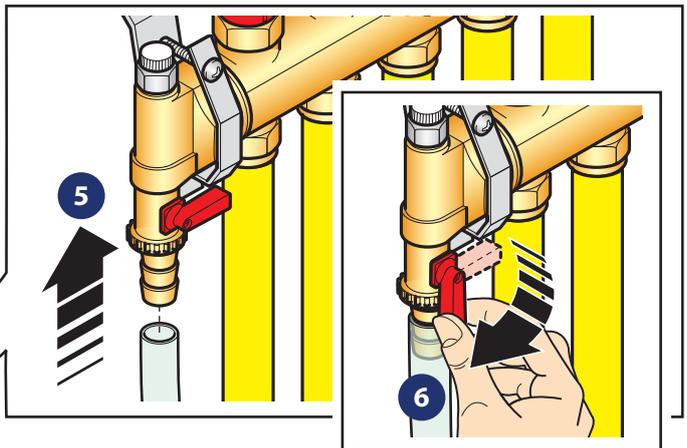
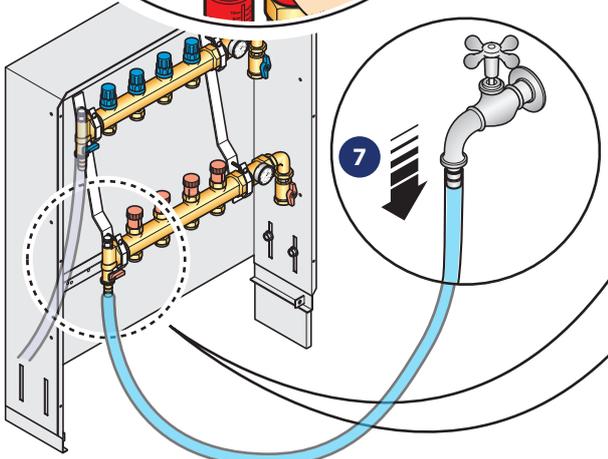
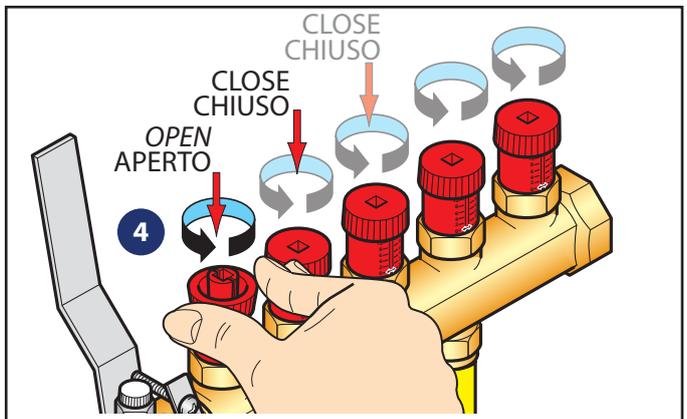
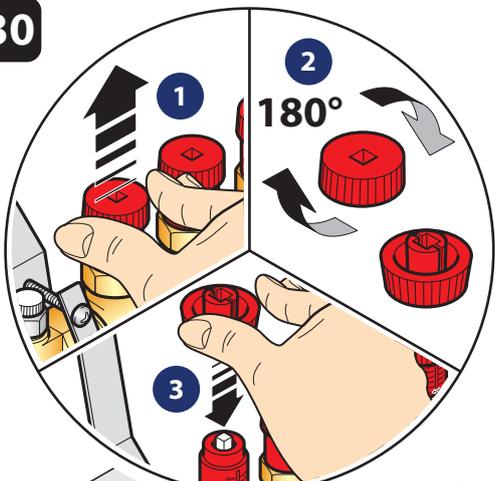
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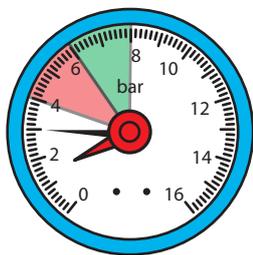
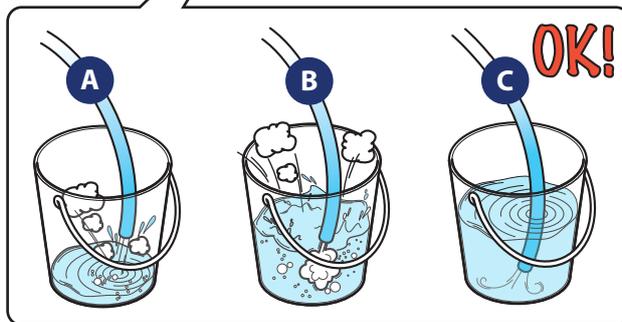
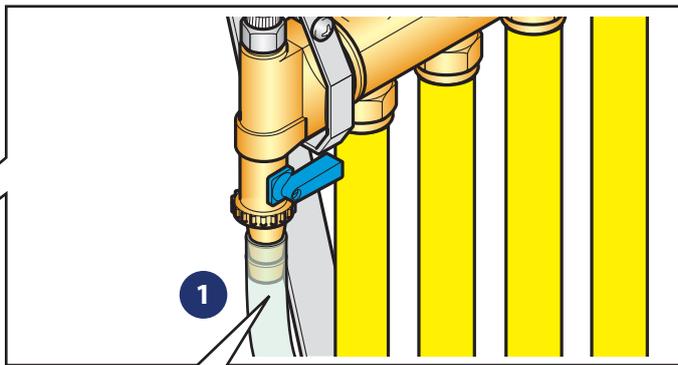
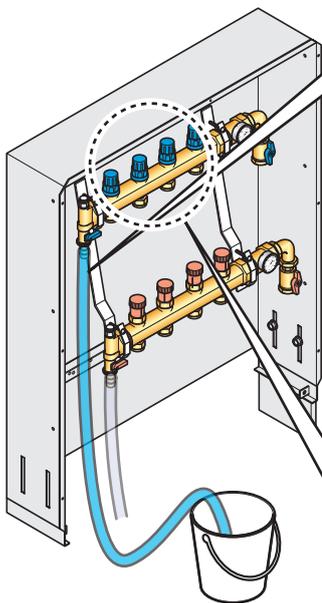


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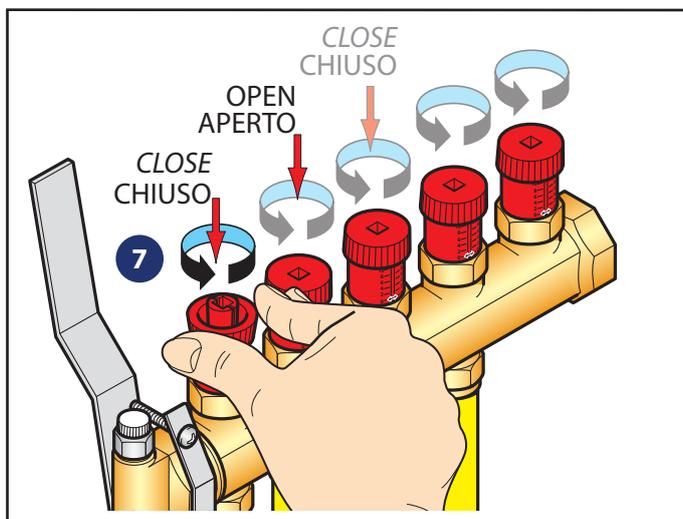
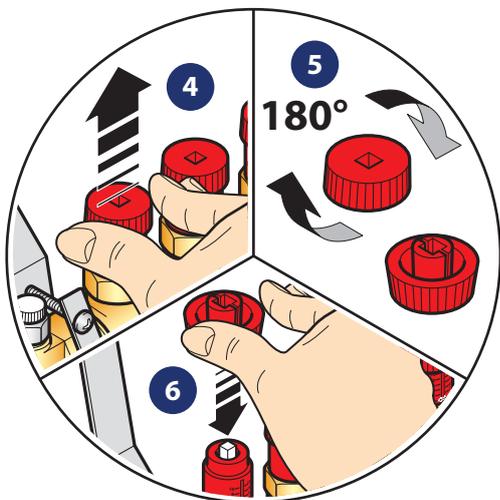
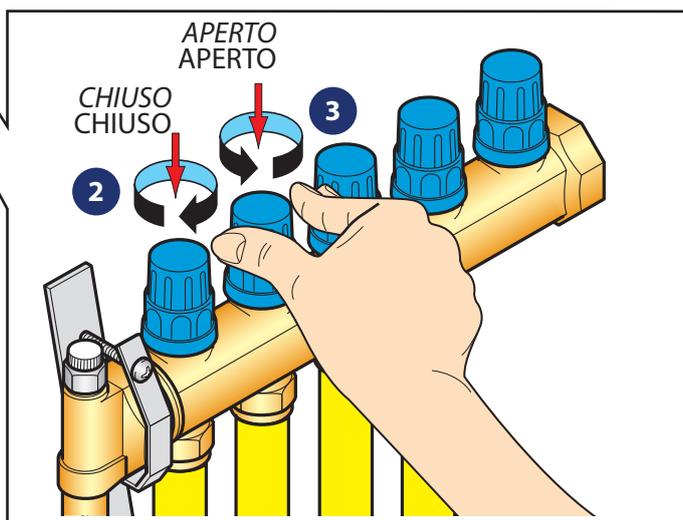
30





CONTROL - TOP CONTROL  
6÷8 bar

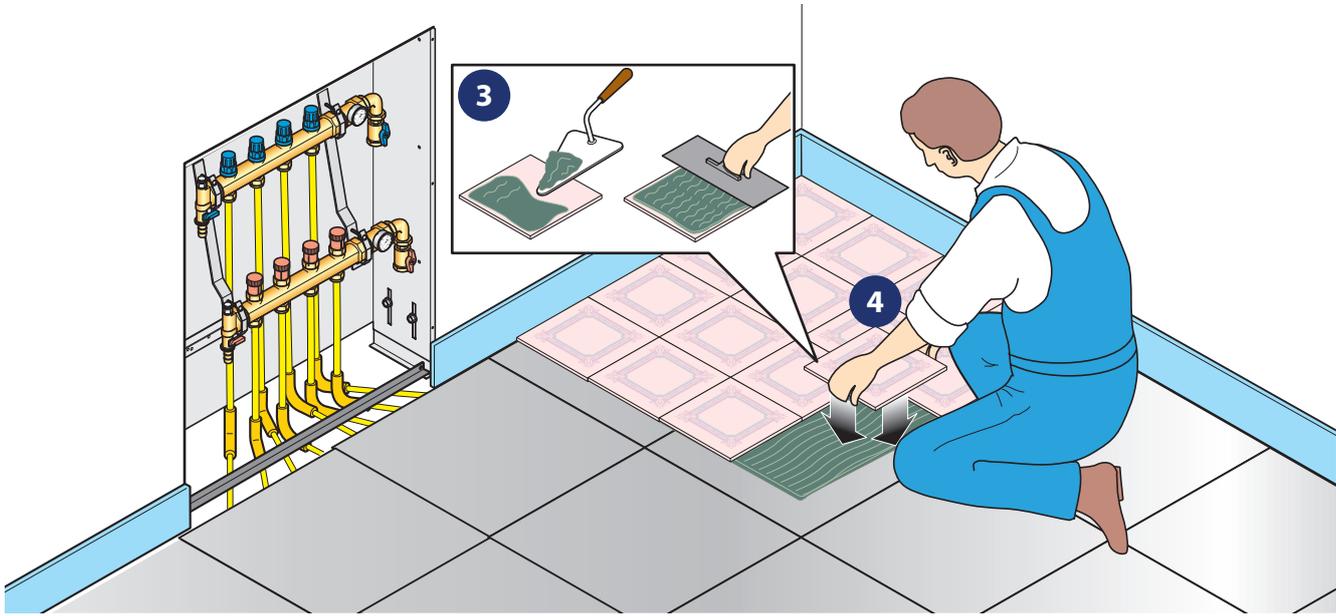
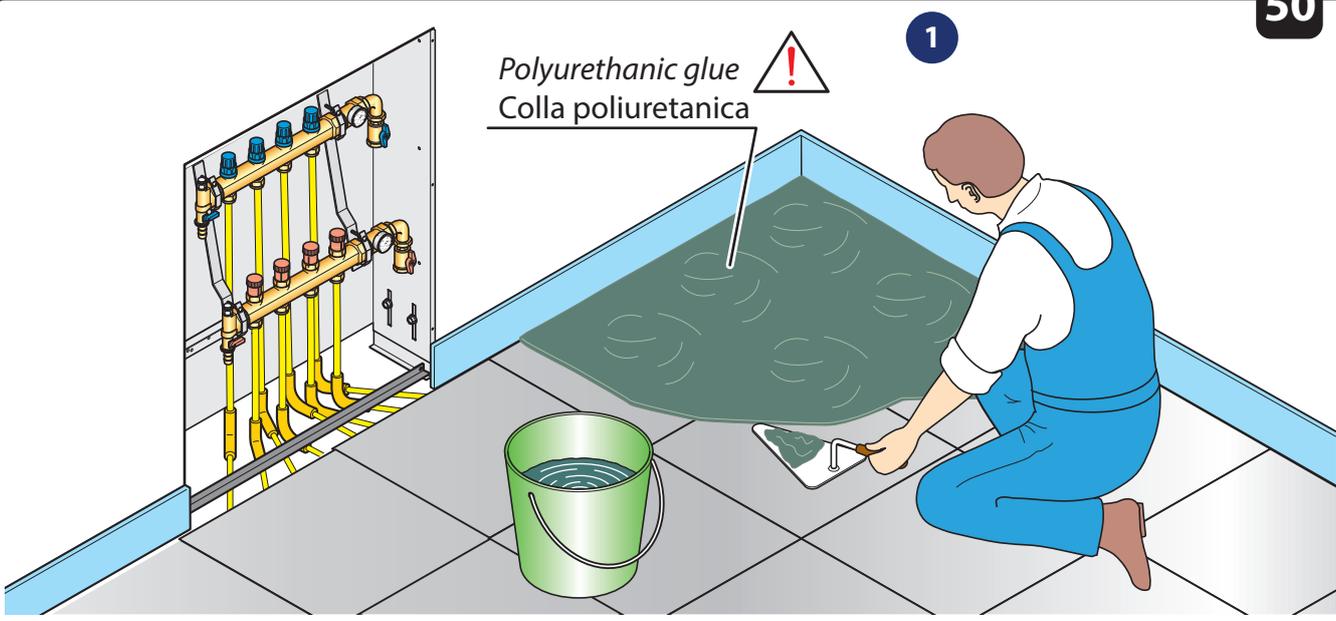
TOP COMPOSIT  
4÷6 bar



The system shall be kept with pressure until the work is finished (flooring excluded)

La tenuta in pressione dell'impianto dovrà avvenire fino al completamento dei lavori (rivestimenti esclusi)







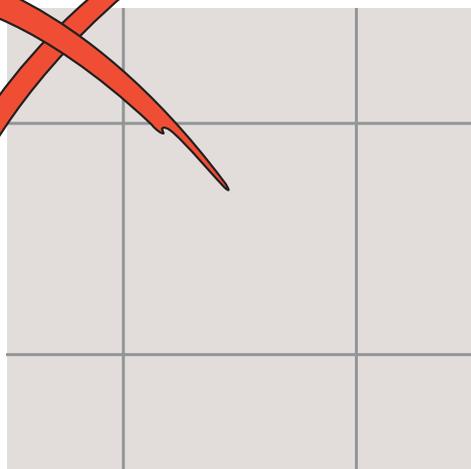
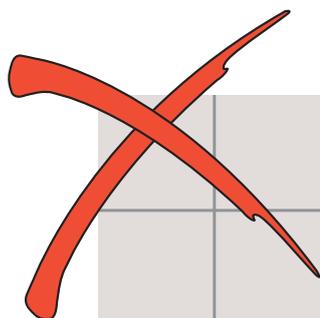
### INSTRUCTIONS ABOUT GROUTING

*It is forbidden to use it with flooring without grout.  
The space between the tiles ( $\geq 4$  mm) depends on the kind of the flooring and it shall consider any upright movement of the covering itself, even if limited, in order to avoid friction and breaking of the tiles before grouting.  
According to the supplier of the grouting, its size shall be enough to ensure a suitable resistance of the flooring in order to avoid any vertical movement, which can be caused by a wrong levelling of the base and crack the grouting.  
Suitable laying is ensured only if epoxy grout is used.*

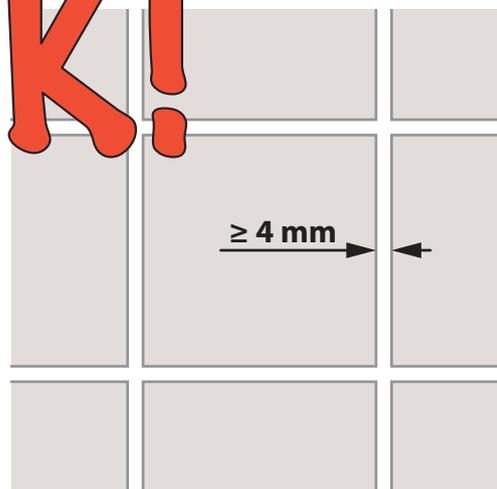
### INDICAZIONI PER LE FUGHE

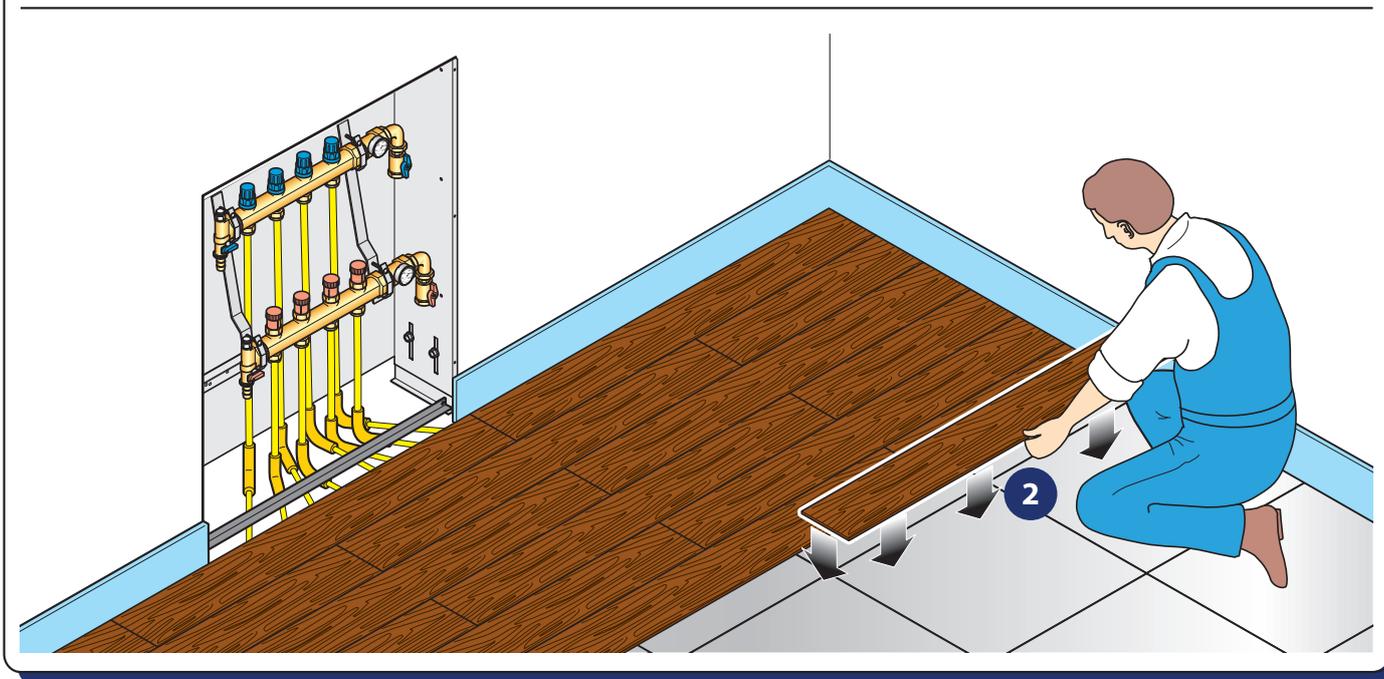
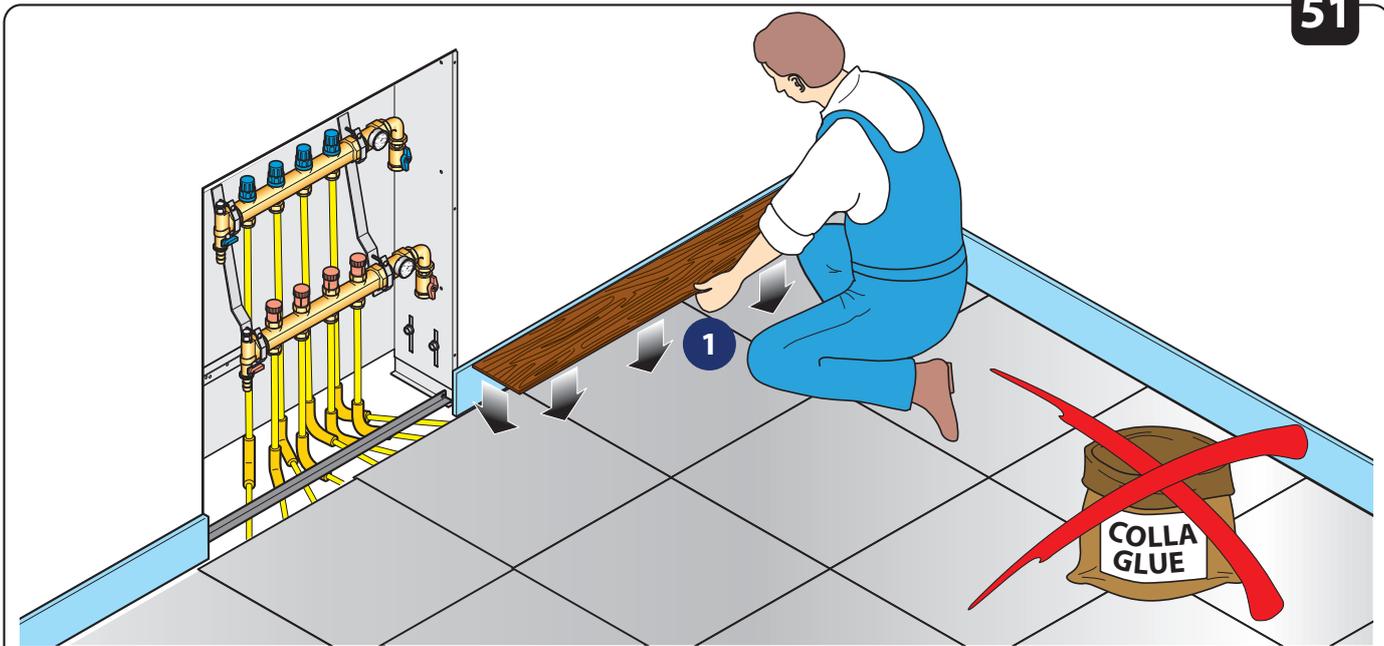
E' vietata la posa di rivestimenti privi di fughe.  
Lo spessore delle fughe ( $\geq 4$  mm) dovrà essere commisurato al formato del rivestimento adottato e comunque dovrà tener conto di eventuali movimenti verticali, anche se limitati del rivestimento, tutto ciò al fine di evitare lo sfregamento (con conseguente rottura) delle piastrelle antecedente alla posa del fugante.  
Lo spessore delle fughe inoltre, in accordo con il fornitore del fugante stesso, dovrà essere tale da garantire una adeguata robustezza della pavimentazione al fine di evitare che eventuali movimenti verticali (causati da un non adeguato livellamento del sottofondo) possano fessurare le fughe stesse.  
La posa viene garantita solamente in presenza di fugante di tipo epossidico.

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OK!





**!** We suggest you should avoid sticking wooden flooring with glue since the change in temperature and humidity on the flooring itself can cause cross tension between covering and weight distribution layer and raising of the flooring.

**!** L'incollaggio dei rivestimenti lignei è sconsigliato, in quanto le variazioni termo-igrometriche nel rivestimento stesso creano tensioni trasversali tra il rivestimento e il ripartitore provocando l'incrinatura o il sollevamento dei bordi del pacchetto incollato.

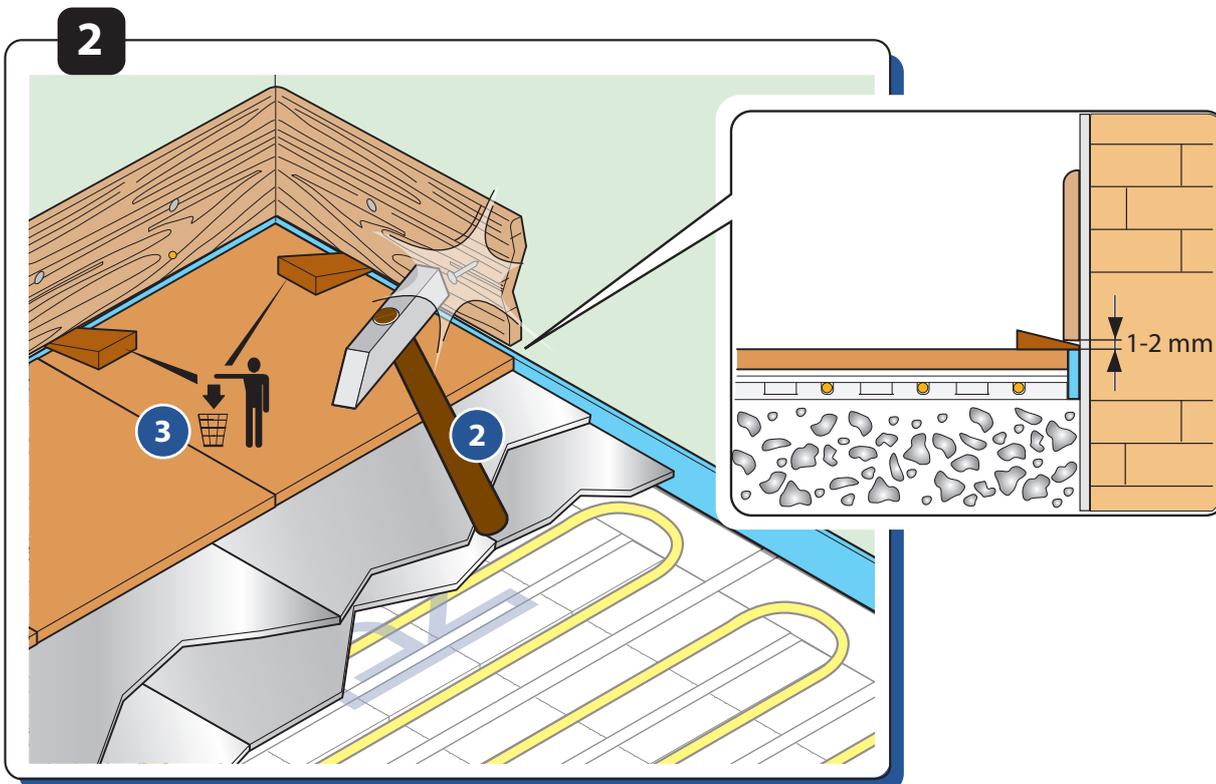
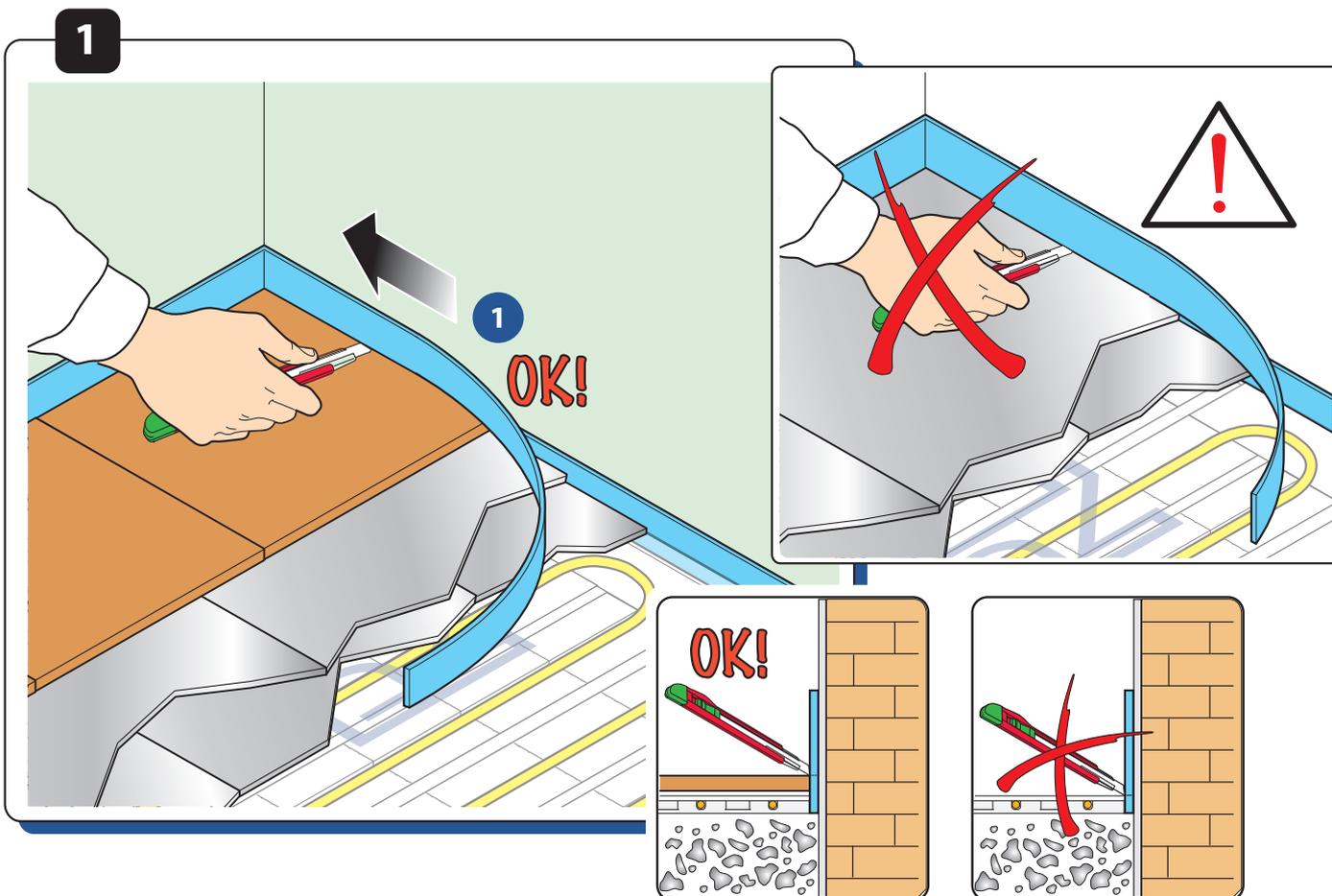
#### OTHER FLOORINGS

In case of ceramic or wooden flooring please contact RDZ Technical Department.

#### ALTRI RIVESTIMENTI

Per la posa di rivestimenti diversi dai ceramici o lignei contattare l'ufficio tecnico RDZ.

3.10 | INSTALLATION OF THE SKIRTING BOARD - POSA DEL BATTISCOPIA



**Fix the skirting board to the walls only, do not fix it to the floor!  
Otherwise the flooring can get broken!**

**Fissare il battiscopa unicamente alle pareti, non ancorarlo  
alla pavimentazione!  
Pericolo di rottura del rivestimento!**

### 3.11 | ADVICE FOR USE - CONSIGLI DI UTILIZZO

**The system shall be switched on to reach the project temperature gradually.**

*The first activation starts with water at 20°C -25°C, which shall be gradually increased with 3°C a day until the maximum set temperature has been reached.*

**L'impianto va avviato e portato alla temperatura di progetto con gradualità.**

Il primo avviamento comincia con il fluido ad una temperatura compresa tra i 20°C -25°C per essere gradatamente aumentata nel periodo successivo di 3°C al giorno fino al raggiungimento della massima temperatura prevista.

*Antifreezing additive with inhibiting treatment to control corrosions, encrustations and the microbiological growth in any kind of heating system, included those systems containing aluminium components.*

*PROTECT - NO FREEZE can be used with any type of soft or hard water. It is a colourless product with low toxicity, which is easy to be used.*



Additivo anticongelante con inibitore per il controllo delle corrosioni, incrostazioni e crescita microbiologica in tutti i tipi di impianto di riscaldamento, compresi quelli contenenti parti in alluminio.

PROTECT - NO FREEZE può essere utilizzato con ogni tipo di acqua, con durezza elevata oppure bassa. La formulazione è a bassa tossicità, incolore e facile da usare.

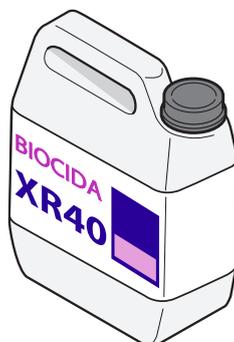
*The inhibiting treatment provides protection for heating systems against corrosion. It can be used in installations with aluminium components, and it is suitable for any kind of installation. Dosage: 2% of the water contained in the system. Package: 3-10 L.*



Additivo per impianti di riscaldamento. Trattamento preventivo contro incrostazioni delle parti metalliche, applicabile anche in impianti con componenti in alluminio. Adatto a tutti gli impianti.

Dosaggio al 2% sull'acqua dell'impianto. Confezione: 3-10 L.

*This sanitiser provides protection for surface heating and cooling systems against bacterial and fungal contamination. Such contamination can cause blockages in some parts of the installation, for example in the pipes, manifolds, valves or heat exchanger. Non-corrosive substance, easy and quick to dose. Biocide XR40 is compatible with Inhibitor XR20, and they shall be both used at first fill of the radiant system in the primary circuit. Dosage: 1% of the water contained in the system. Package: 3 L.*



Sanitizzante e biocida stabilizzato per preservare nel tempo l'efficienza dell'impianto radiante eliminando il rischio di proliferazione di organismi, quali batteri e funghi, che possono causare l'ostruzione di alcune parti del sistema come tubazioni, collettori, valvole e scambiatori di calore. Non corrosivo, sicuro da maneggiare e compatibile con l'impiego di Inibitor XR20, Biocida XR40 deve essere aggiunto nel circuito primario durante le operazioni di riempimento. Dosaggio: 1% sull'acqua dell'impianto. Confezione: 3 L.











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