



Foundation

- Contact
- Anchor system
- Soil foundation
- Concrete slab foundation



Version revised 231201

Contact us



We support partners before, during and after the implementation of our shelters.

Apart from technical support, we offer consultations on how you can adapt our shelters to meet your specific needs.

If you notice any inconsistencies in the content of this document or have any suggestions, please reach out.



Miguel Acebrón Garcia de Eulate
Technical Support Manager



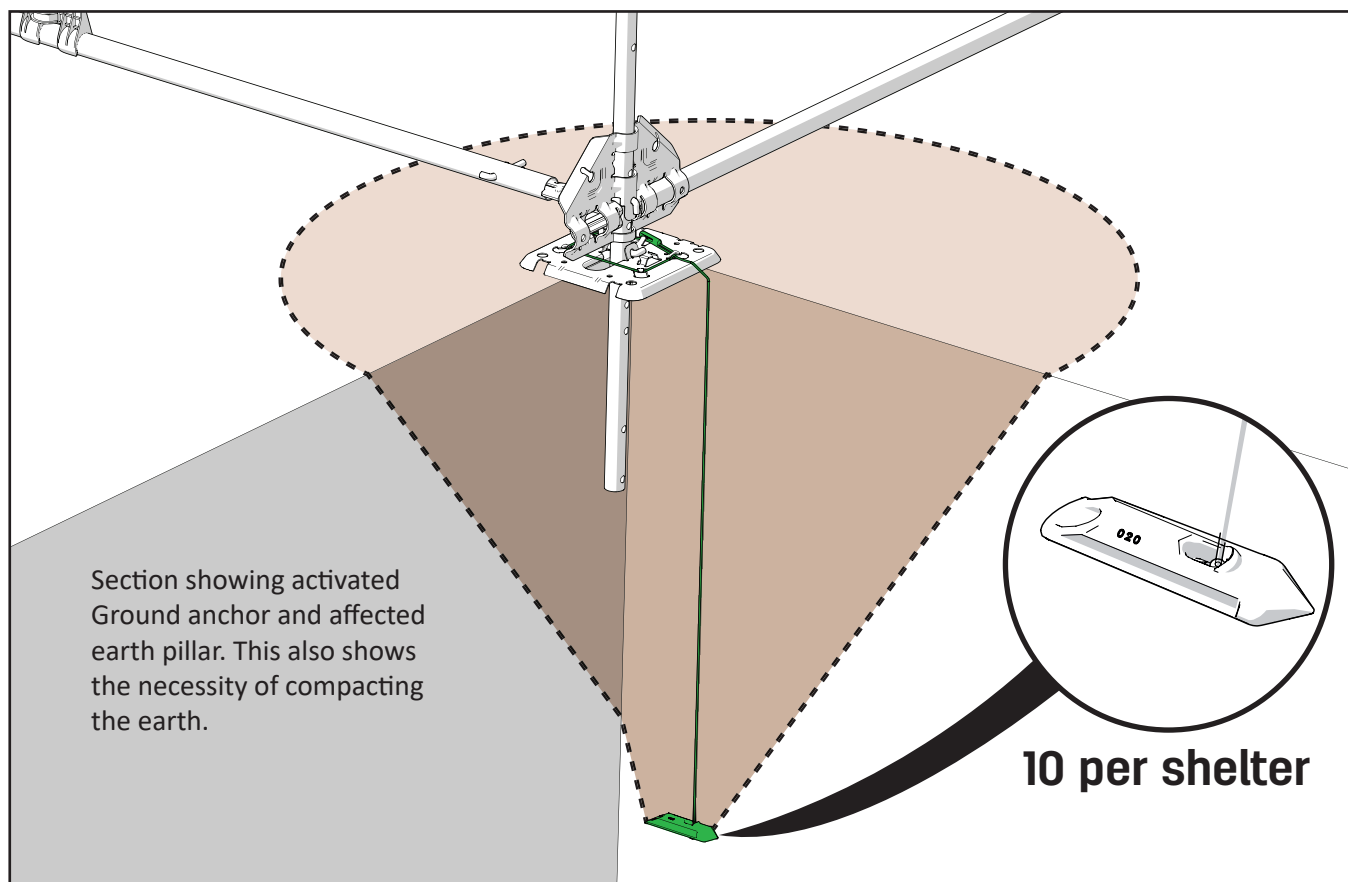
miguel.eulate@bettershelter.org



+46 702 99 18 24

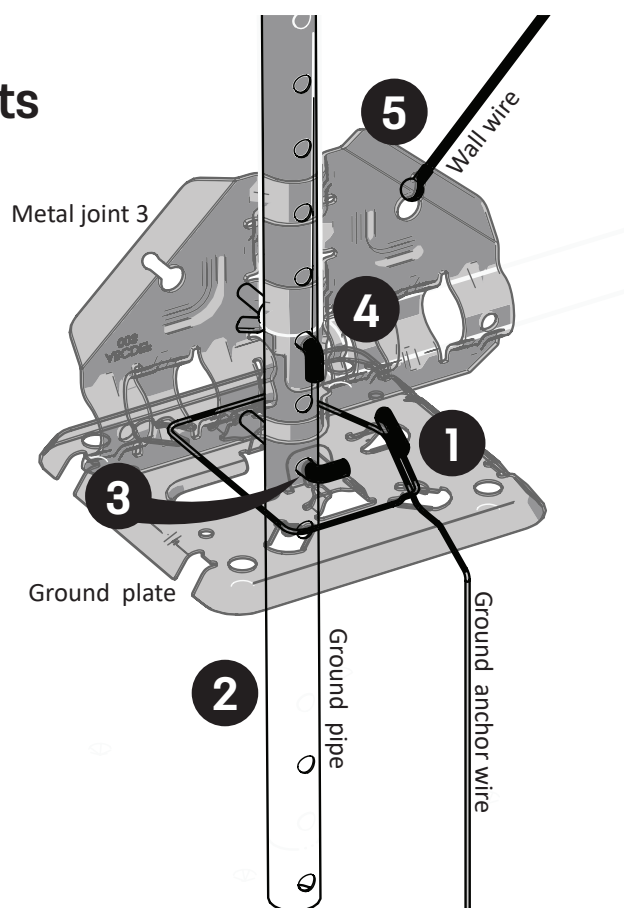
Frame installation

Ground anchoring



Securing the frame – 5 lock points

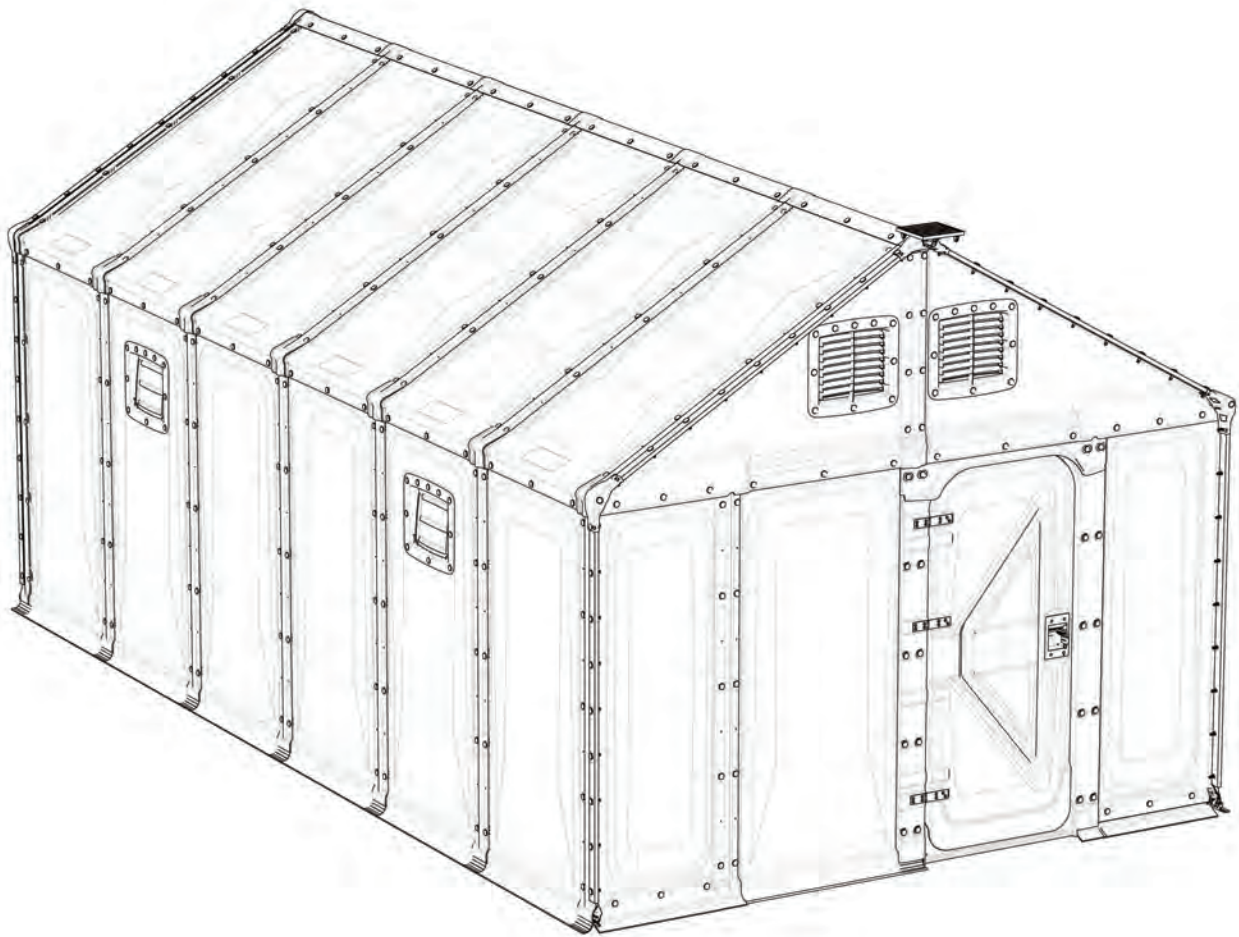
- 1** Ground anchor wire secured to ground plate.
- 2** Ground pipe inserted into ground if possible.
- 3** L-bolt attached to ground plate and ground pipe.
- 4** L-bolt attached to metal joint 3 and ground pipe with a wing nut.
- 5** Wall wire attached to metal joint 3.



Better Shelter Pre Assembly Manual

(192)

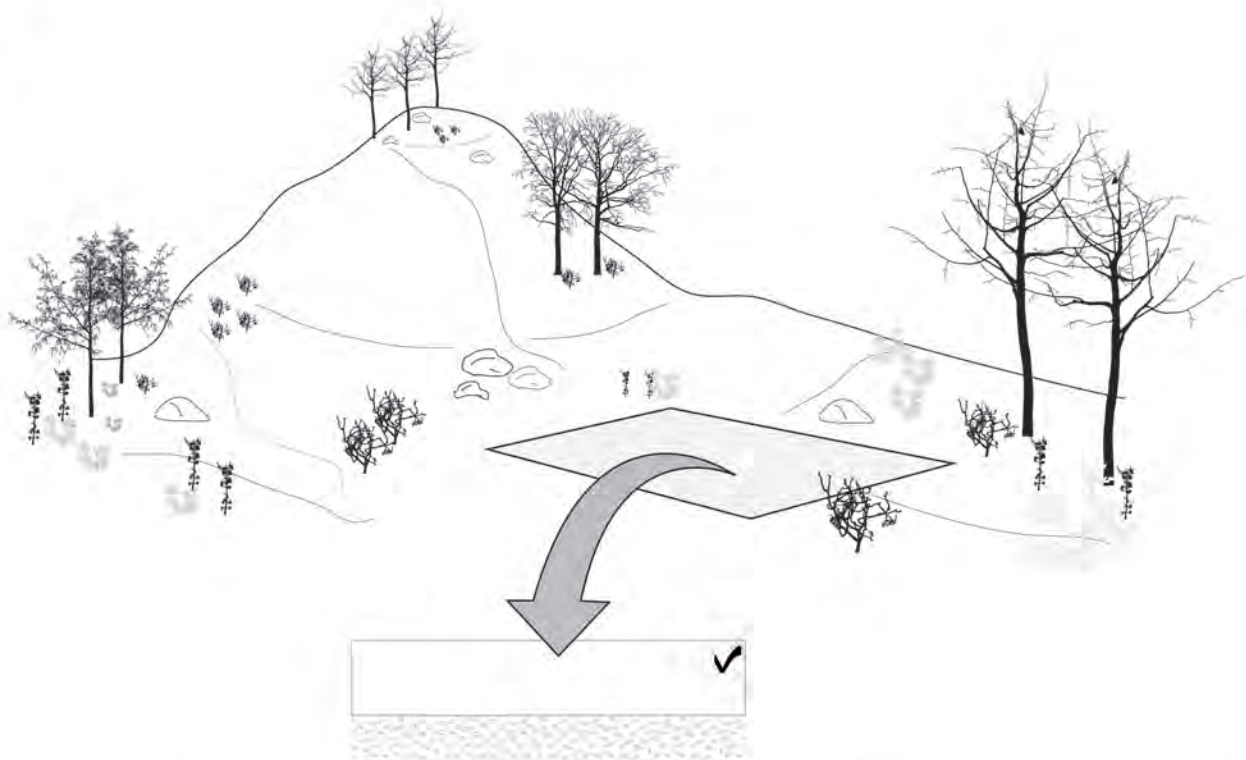
Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio



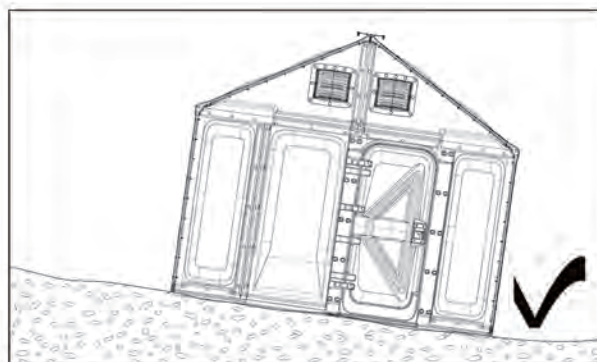
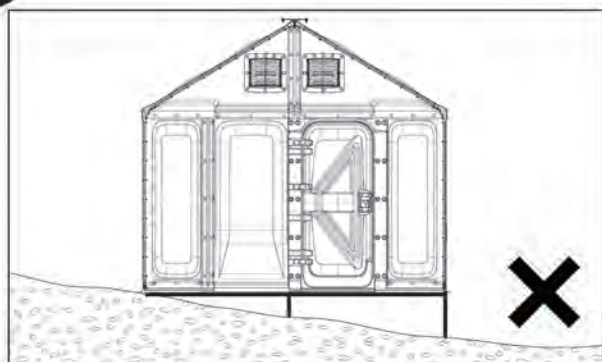
Important control steps marked in red

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1

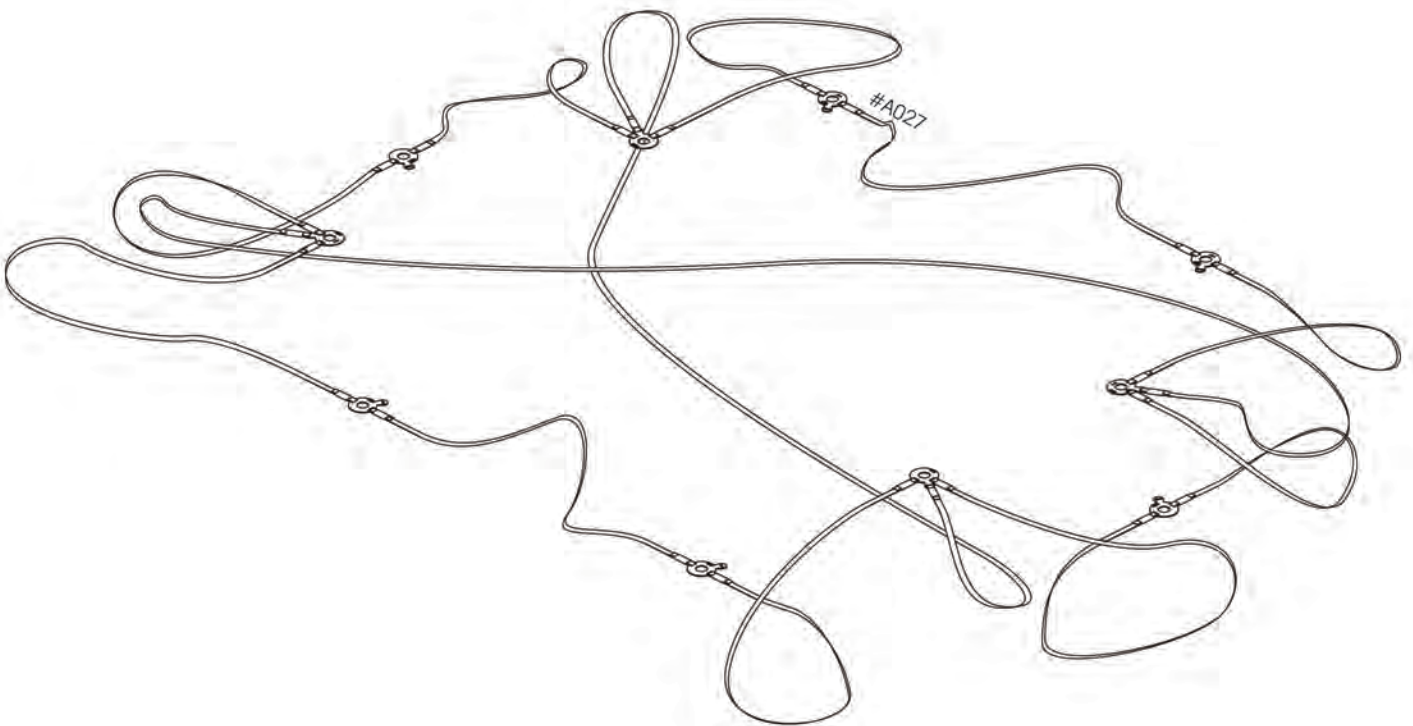
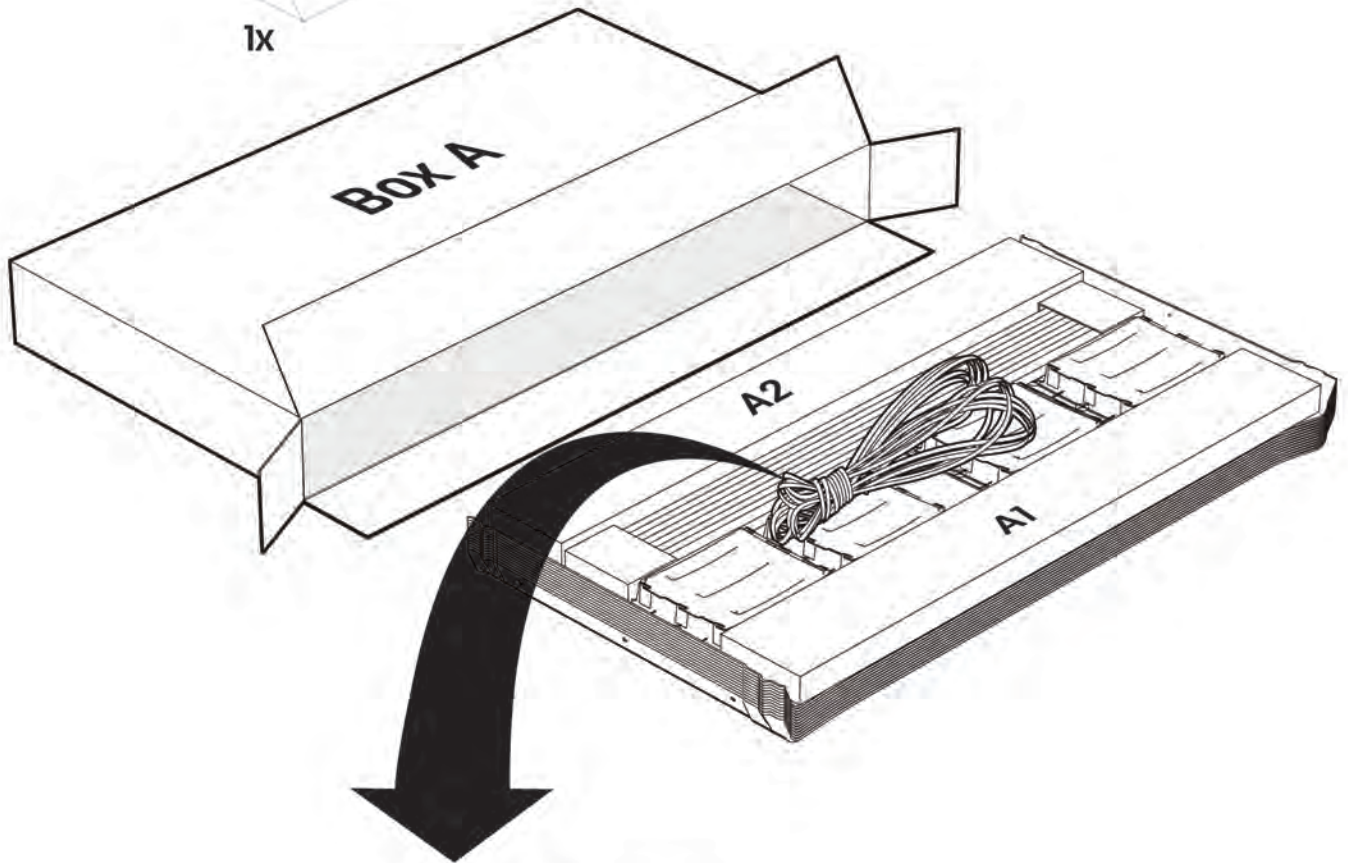
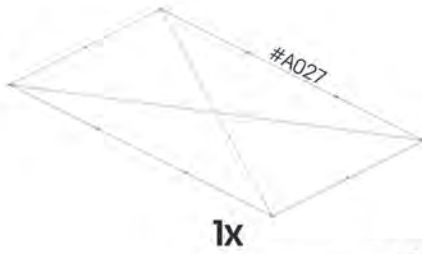


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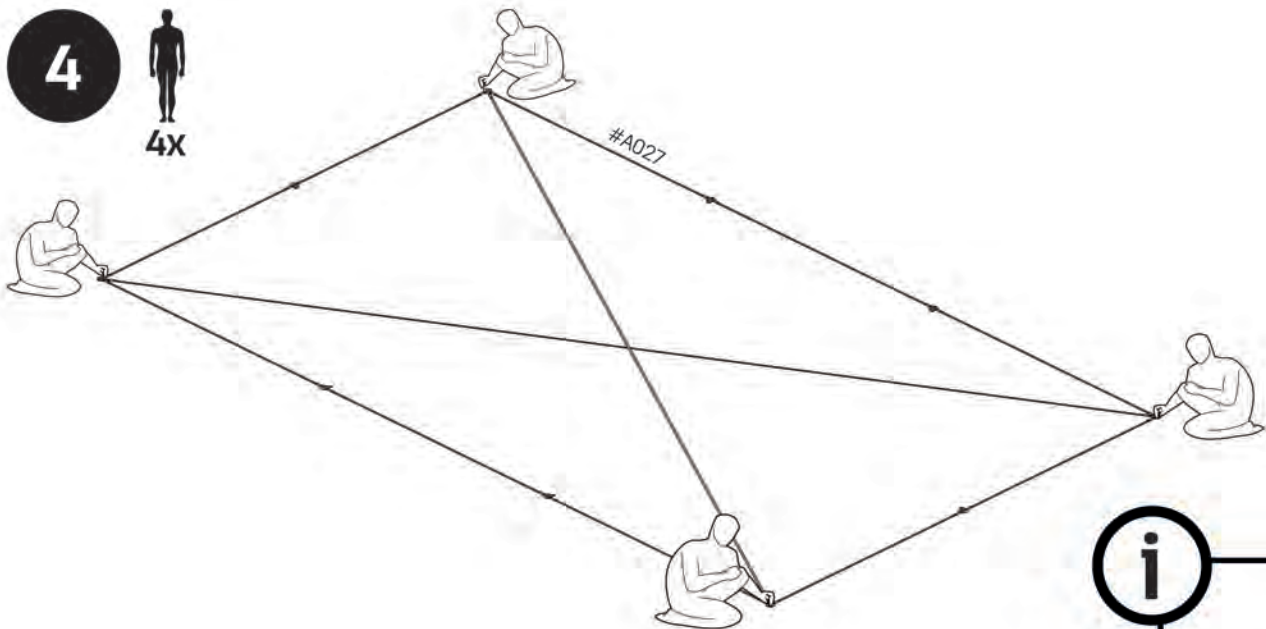


Max 6 degrees slope

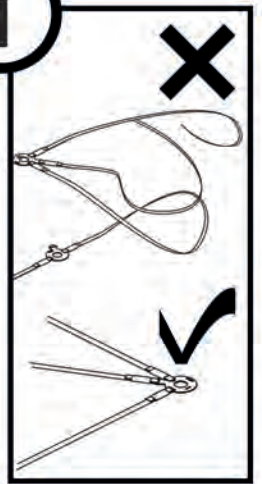
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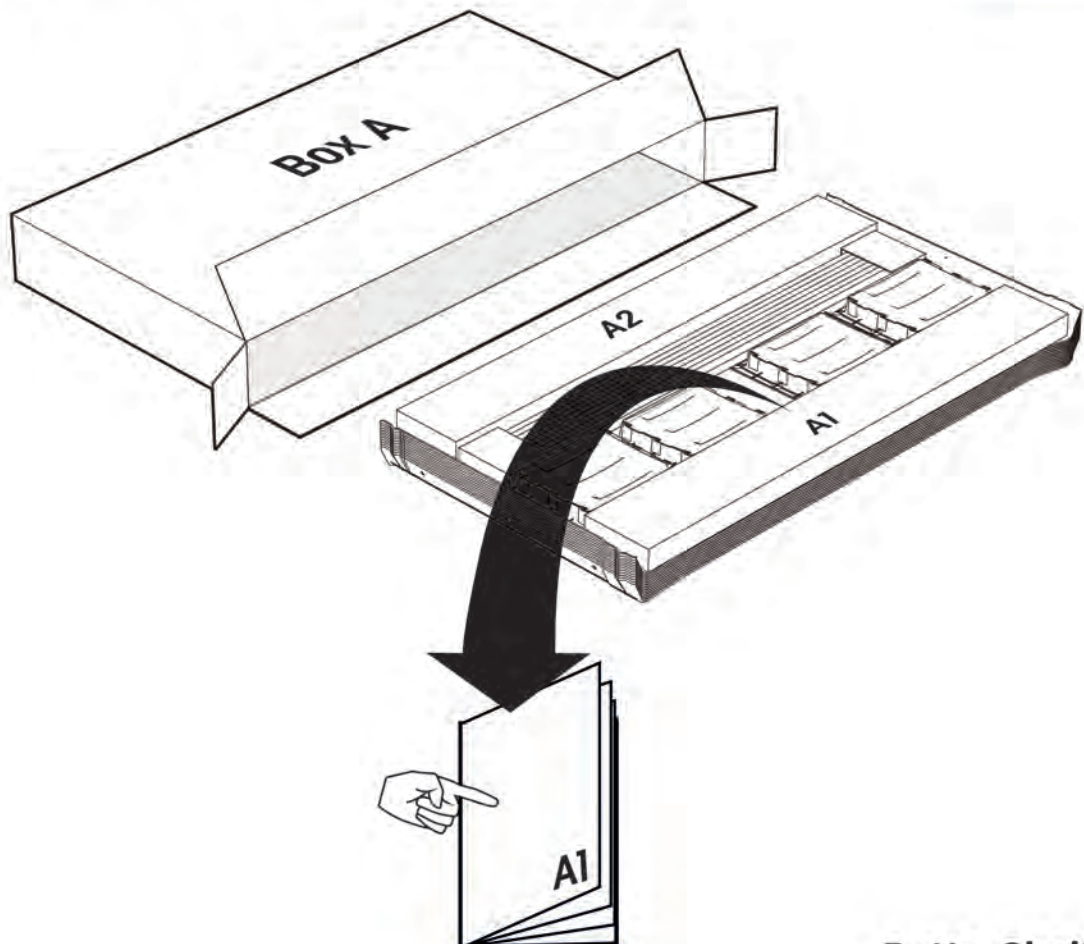


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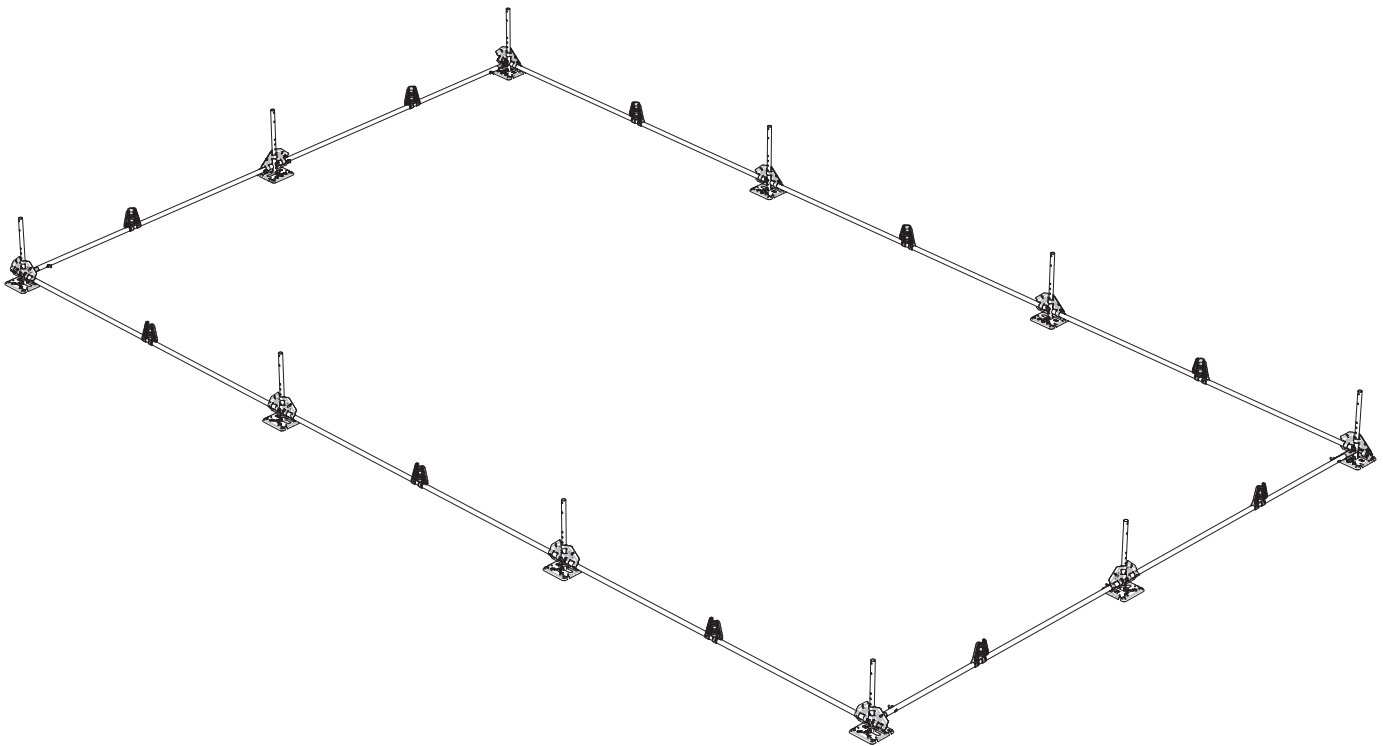
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CONTENTS Box A



Better Shelter **A1 _ Foundation** **Assembly Manual**

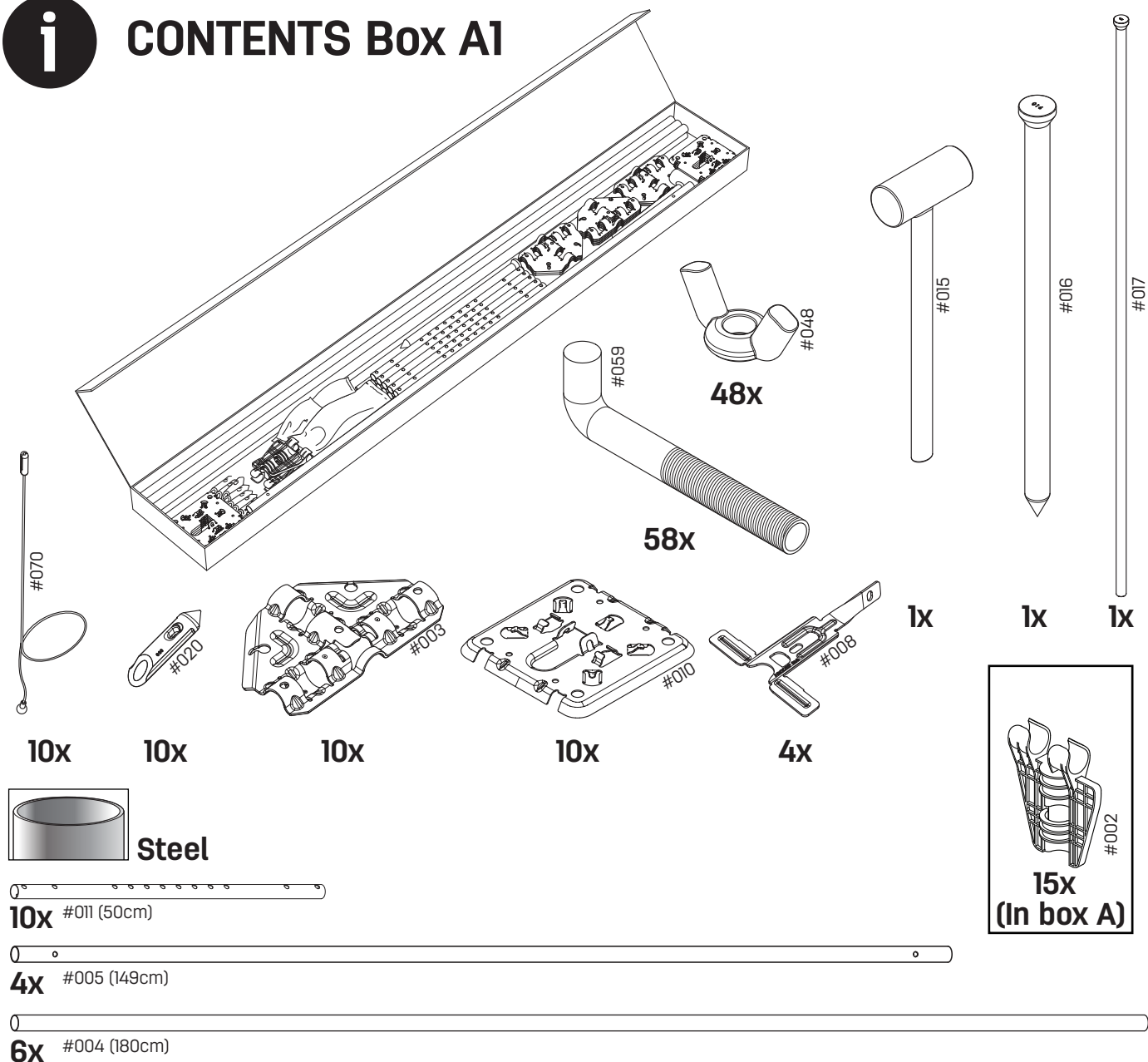
Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio



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CONTENTS Box A1



Legend

1 2

Main steps of assembly

1 2 3 4

Sequence of assembly

Insertion path

2x
#004

Number of parts in step or total
Part ID number

X2

Number of repetitions



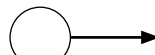
Movement direction



Active part



Information



Detail placement



Rotate part or move to opposite part
of shelter

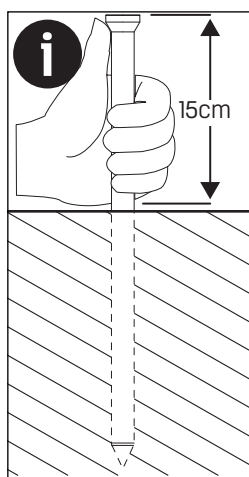
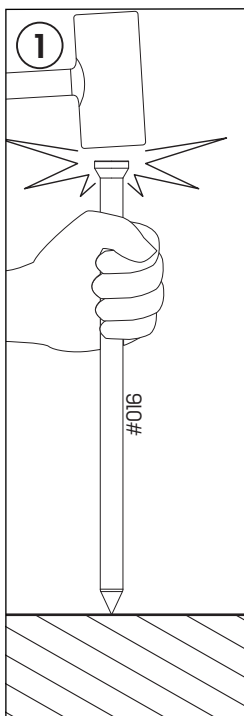
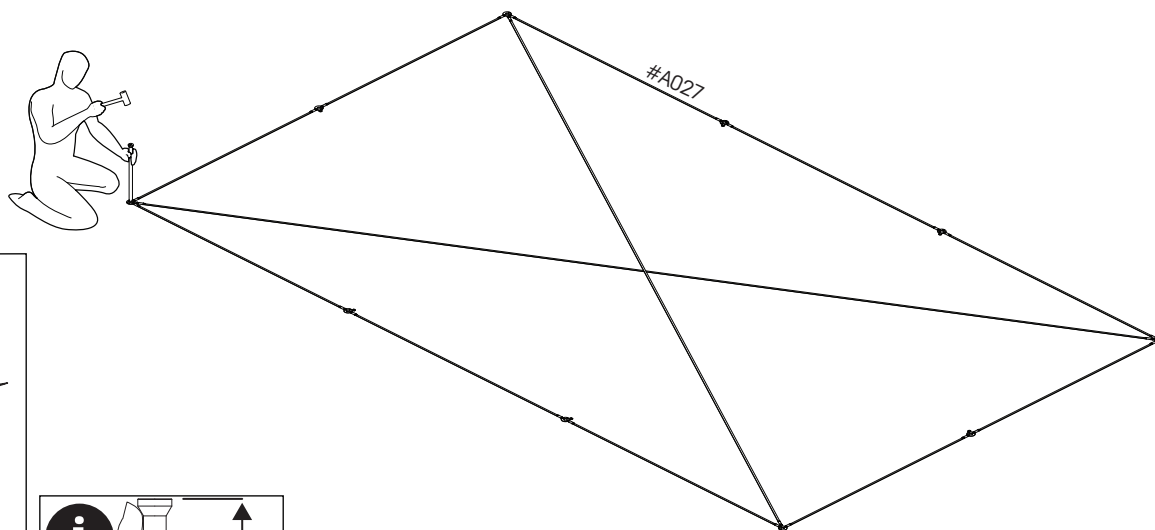
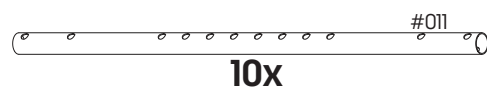
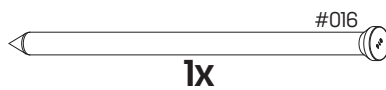
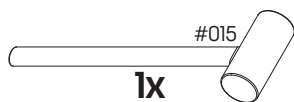


Important detail or position

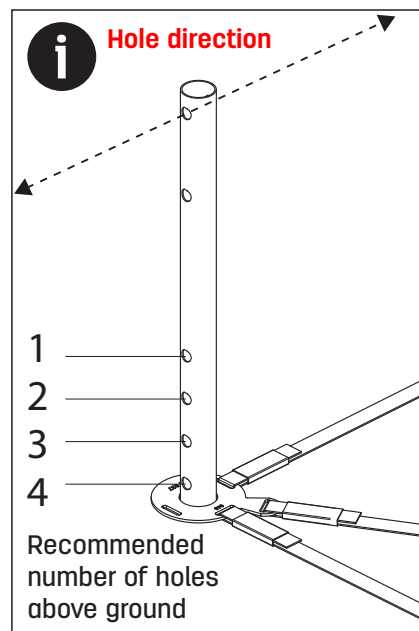
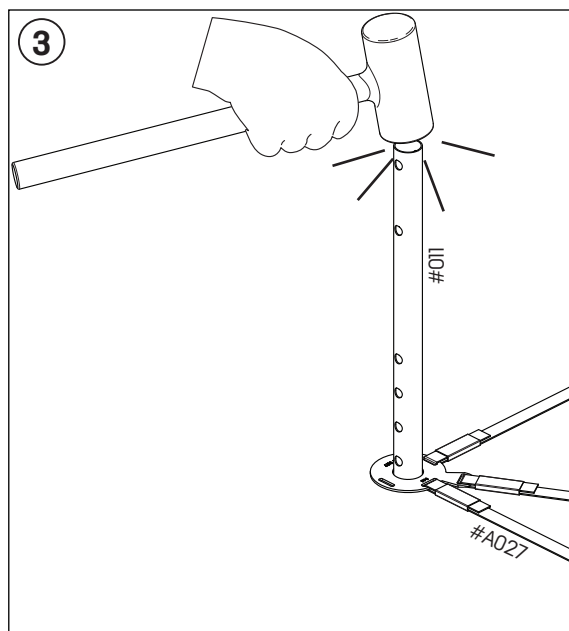
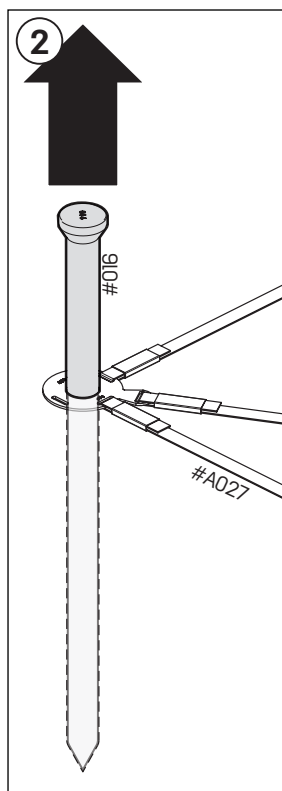
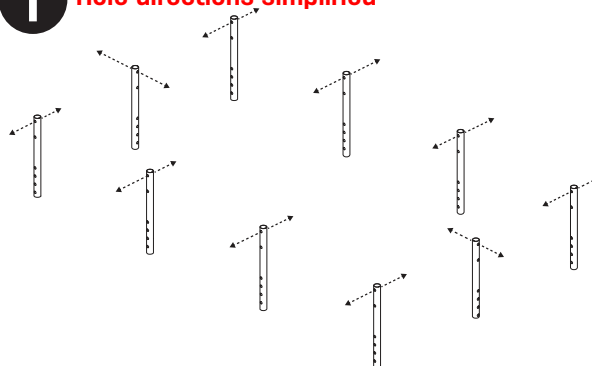
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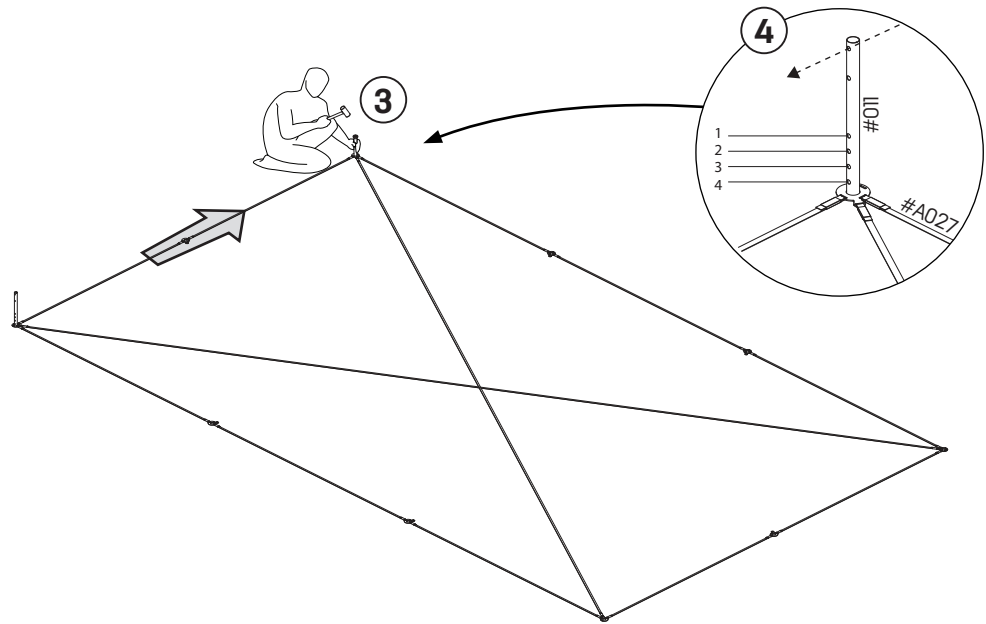
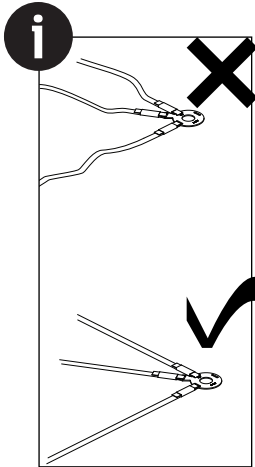
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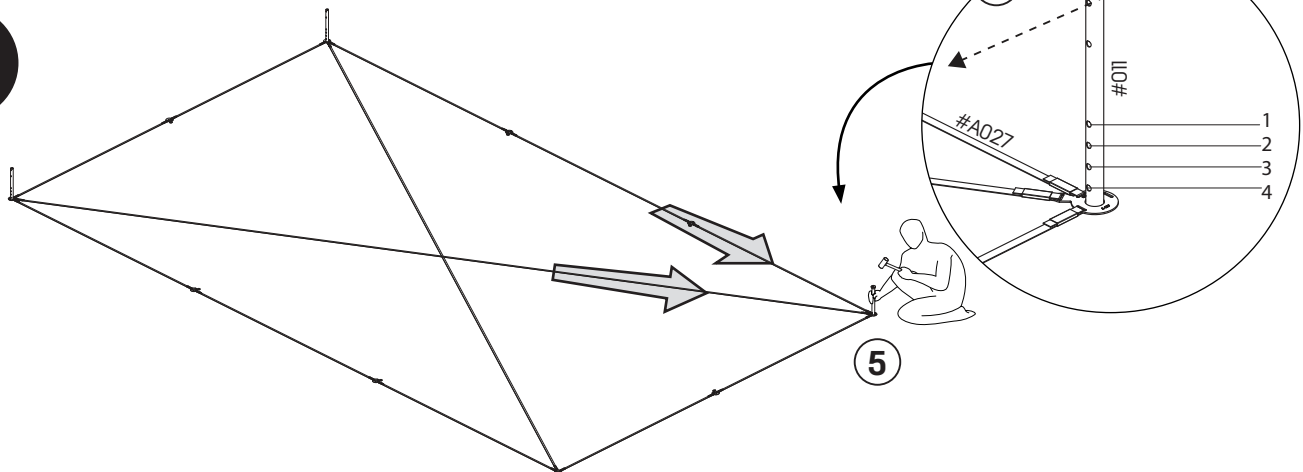
i Hole directions simplified



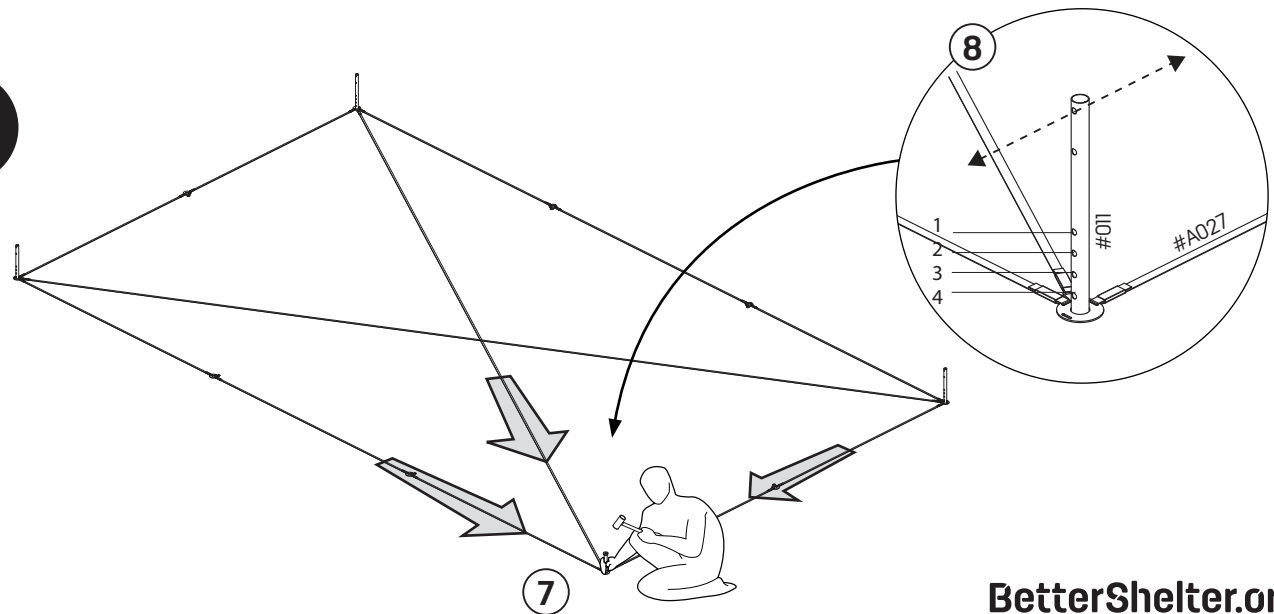
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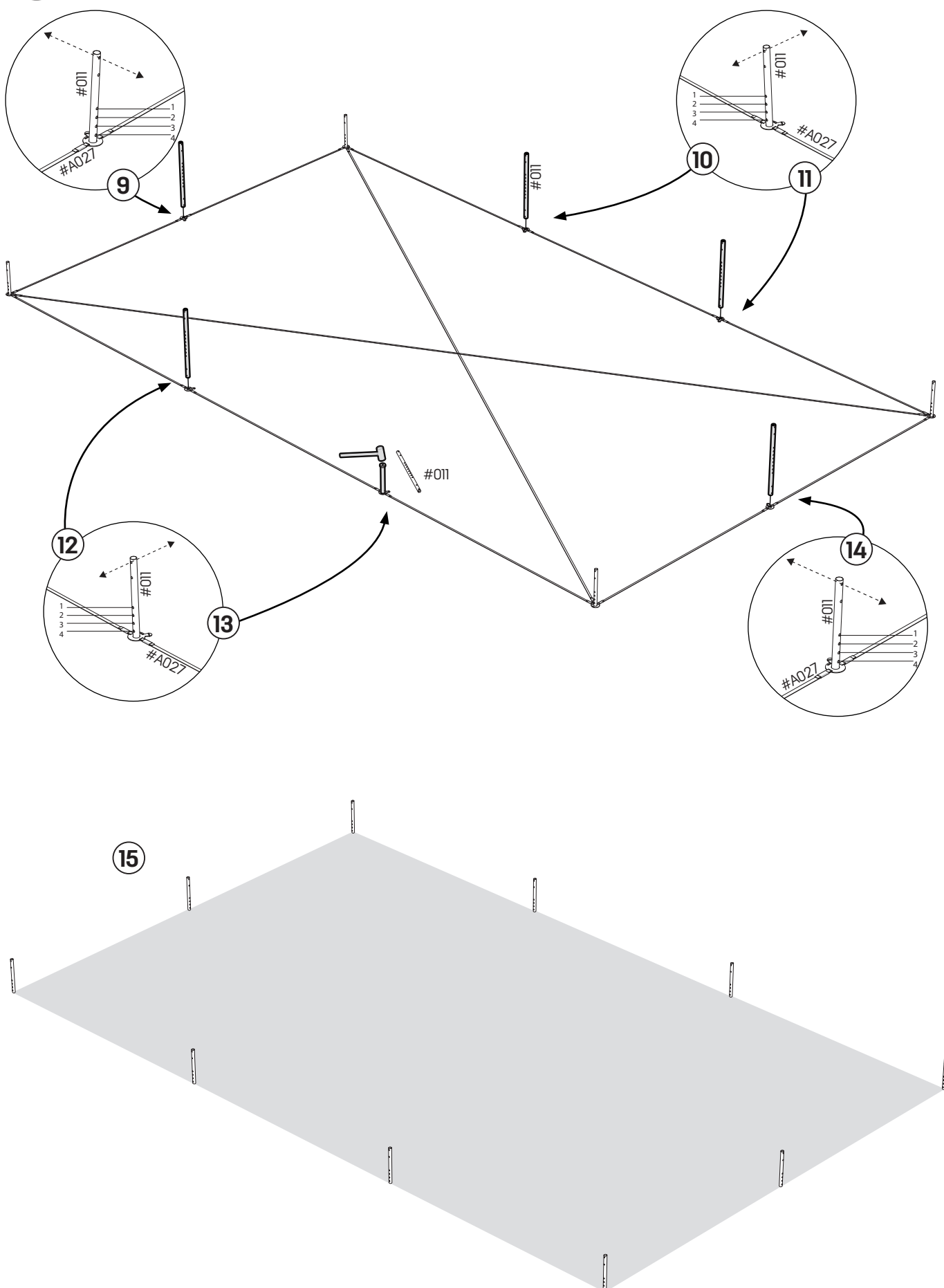
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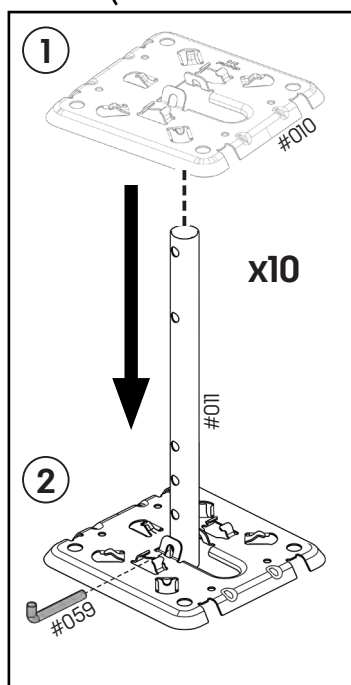
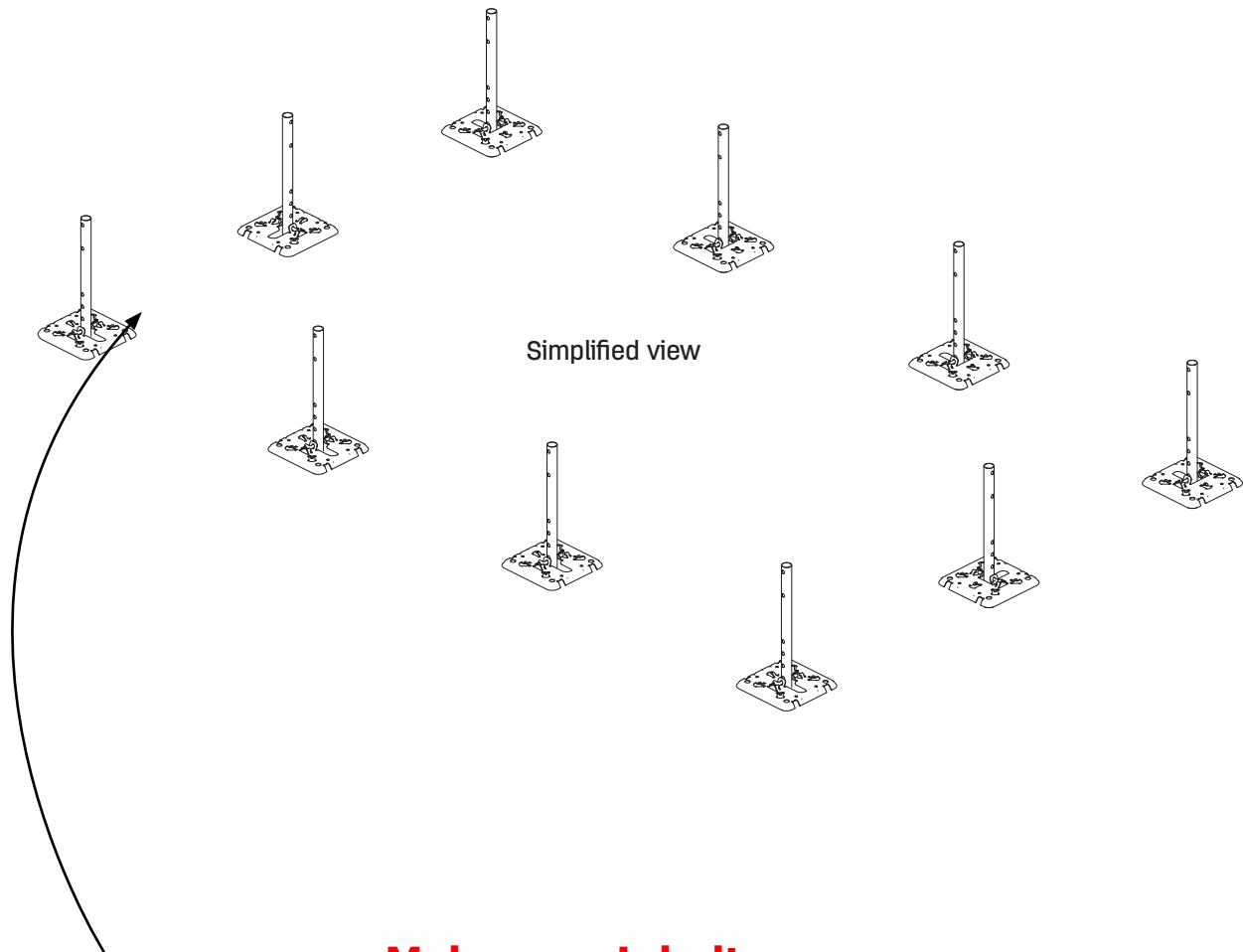
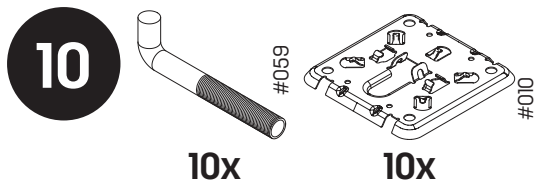


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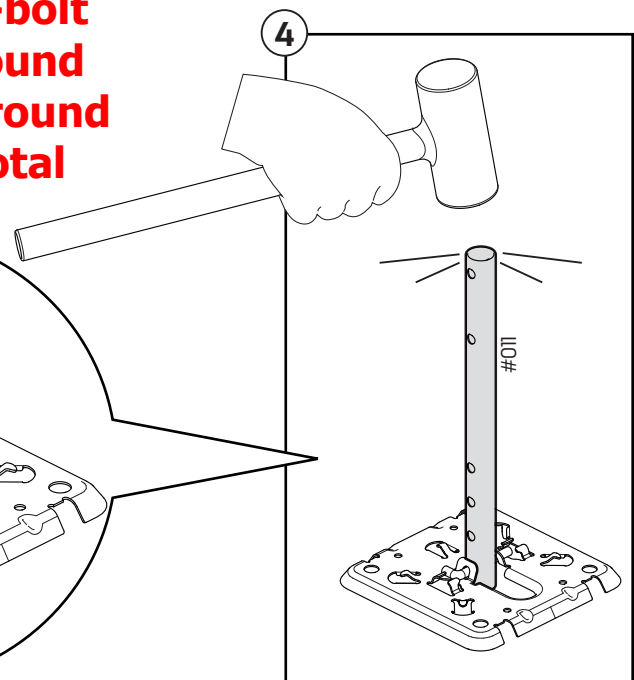
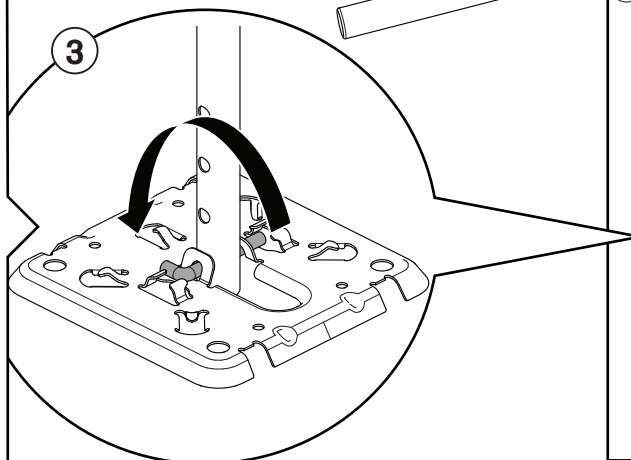
Repeat Step 5

5

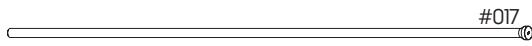




Make sure L-bolt connects ground plate with ground pipe. 10 in total



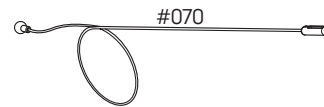
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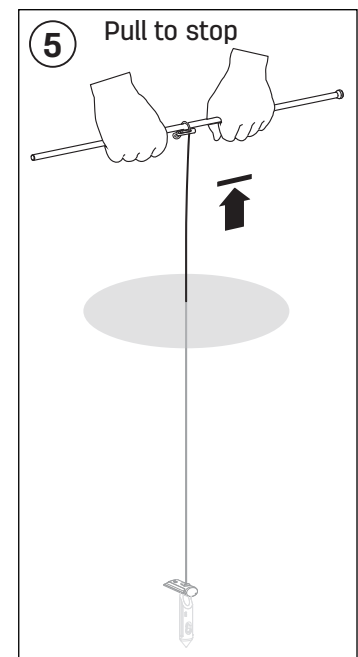
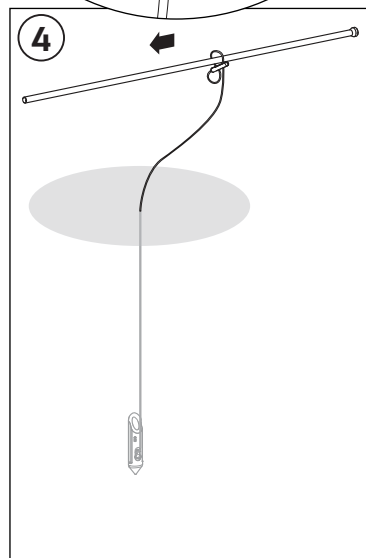
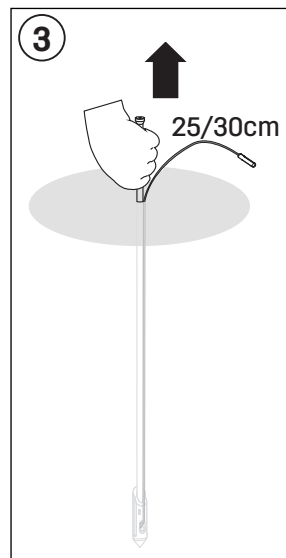
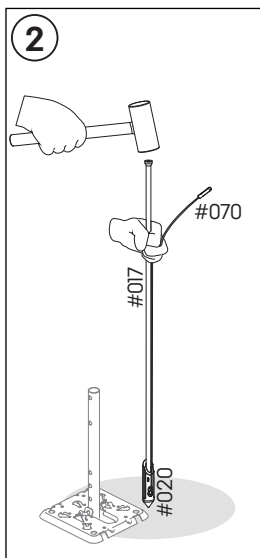
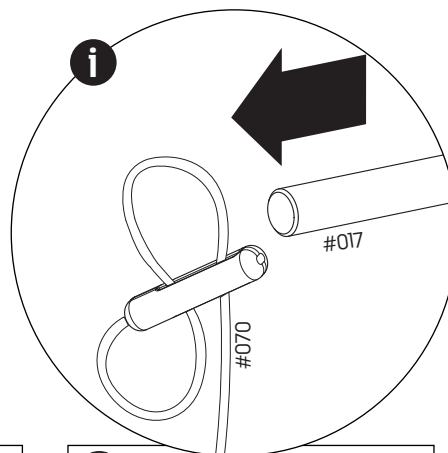
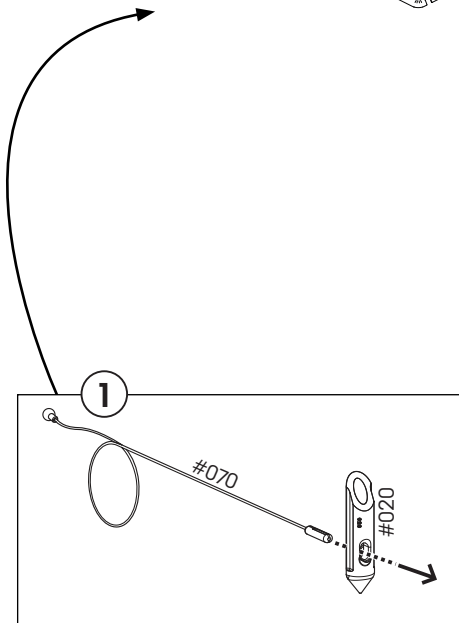
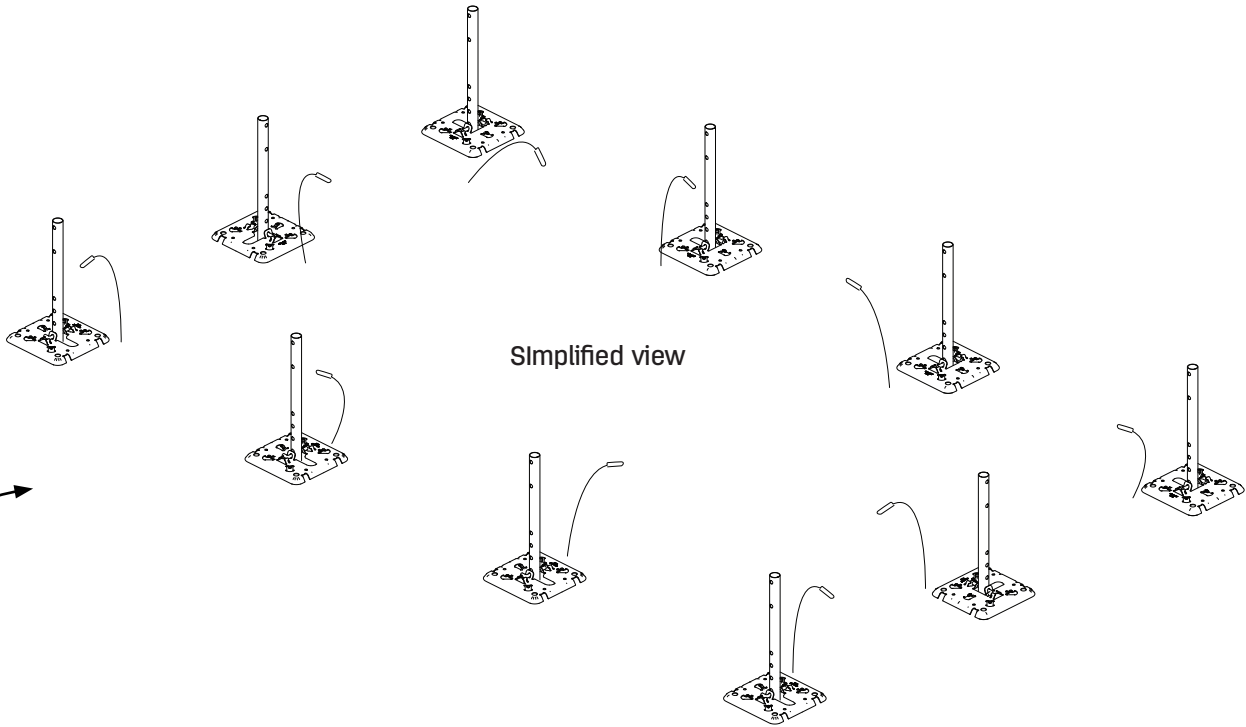
1x



10x

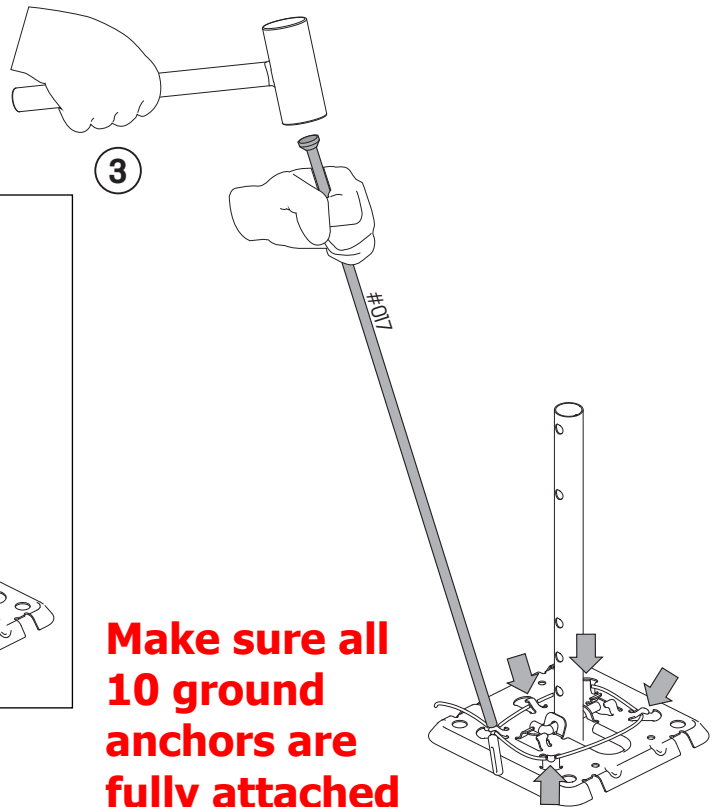
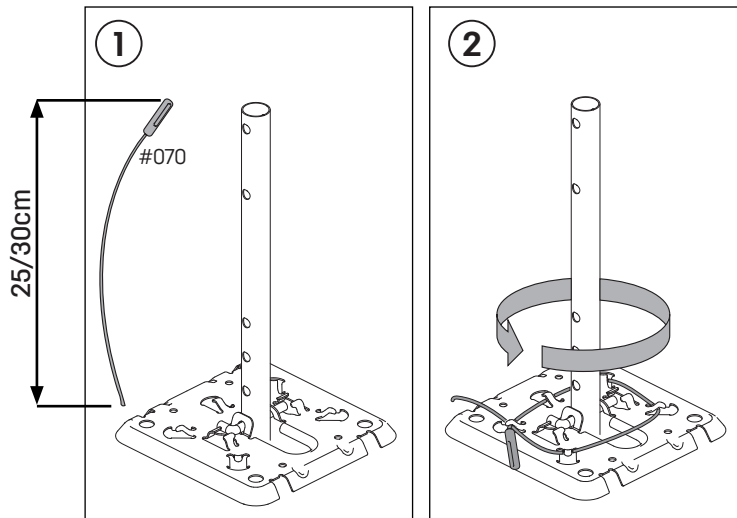


10x



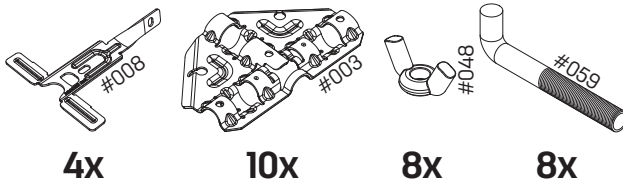
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12 x10

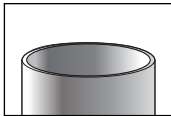


Make sure all 10 ground anchors are fully attached to each ground plate.

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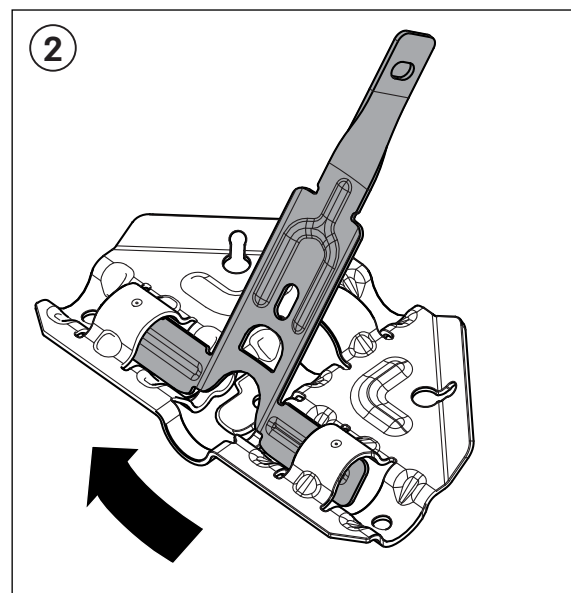
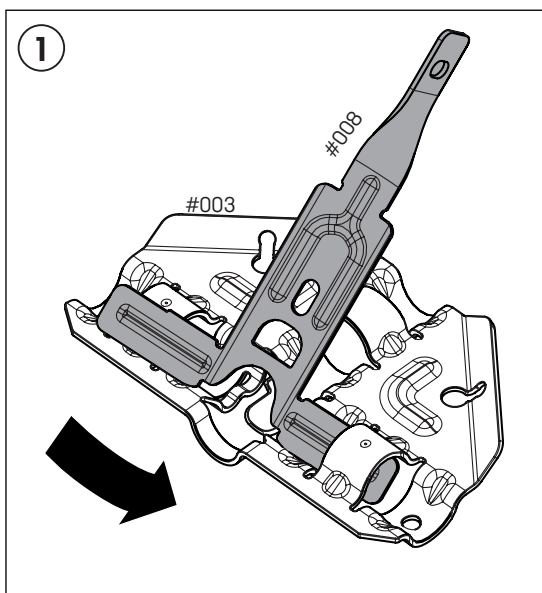


Steel

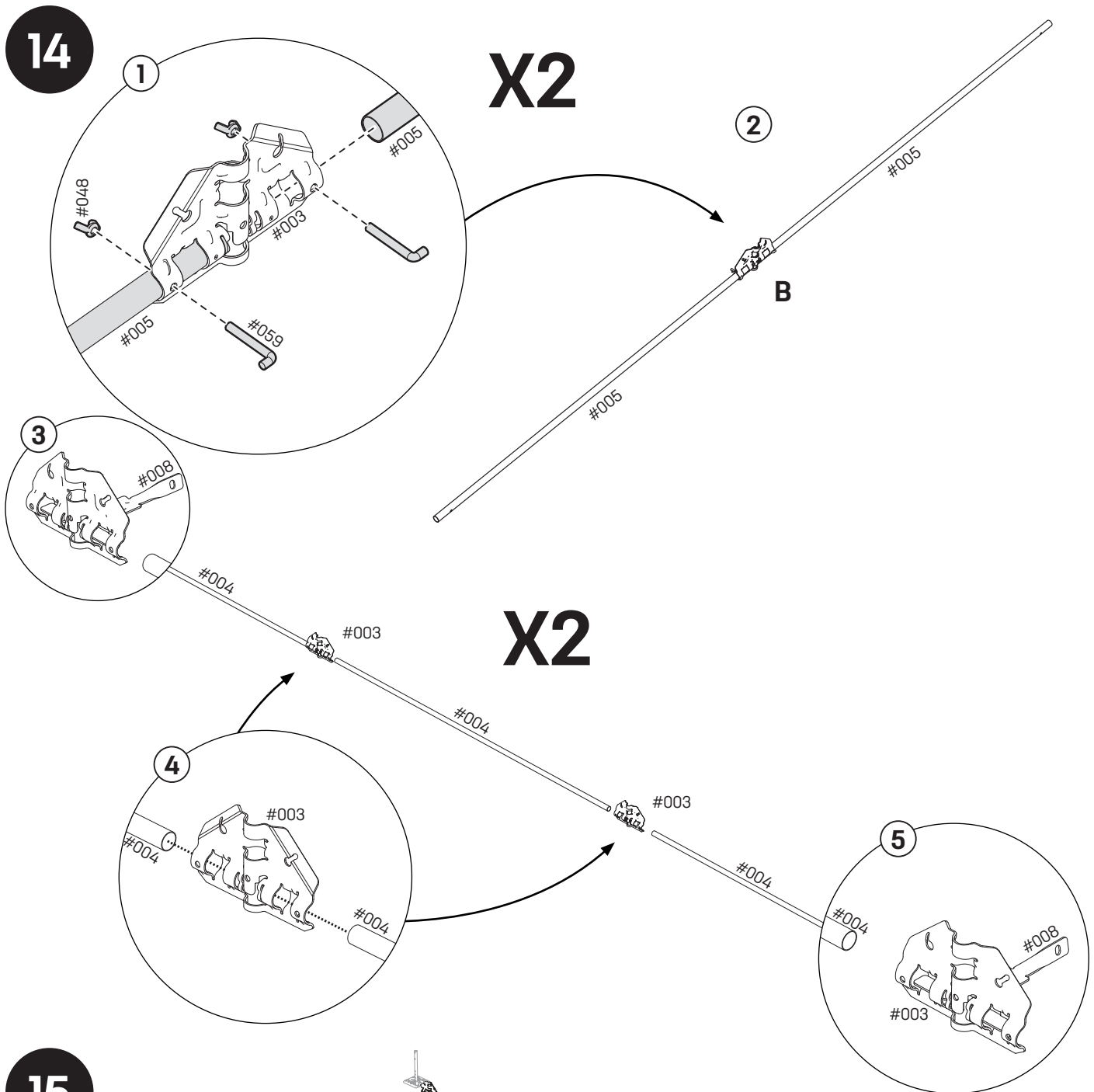


4x #005 (149cm)

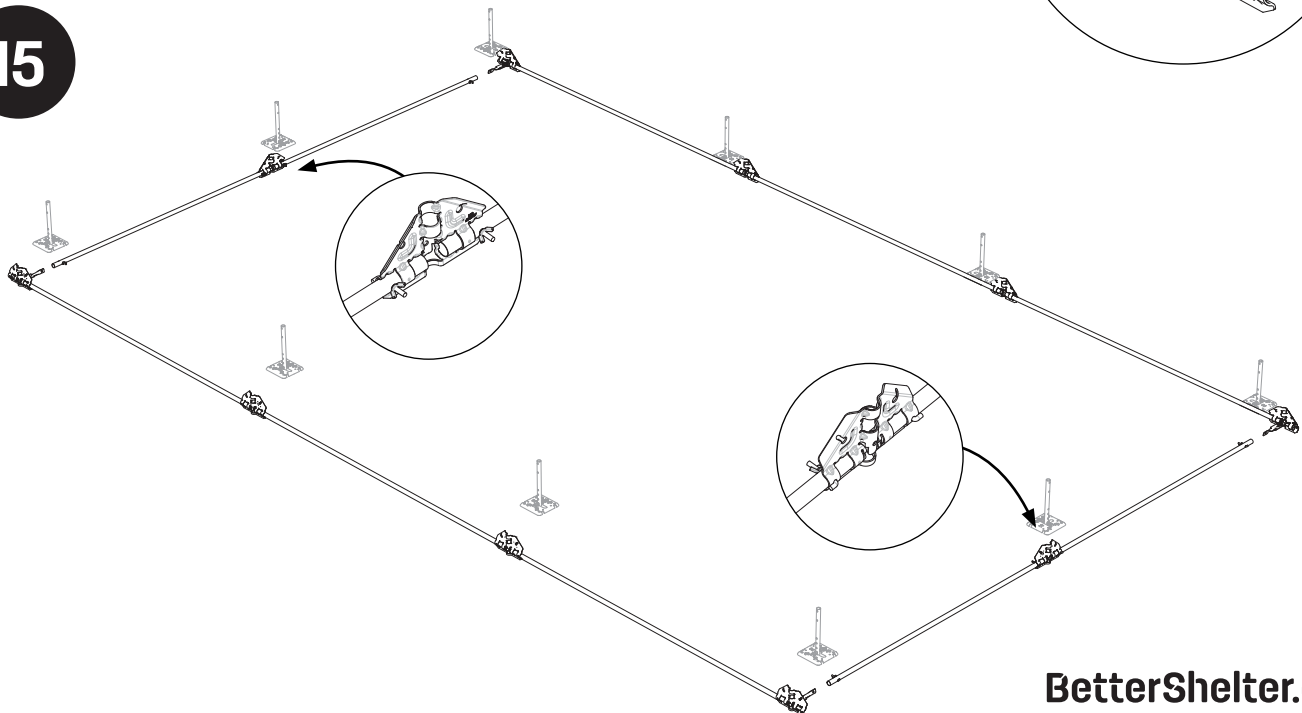
6x #004 (180cm)



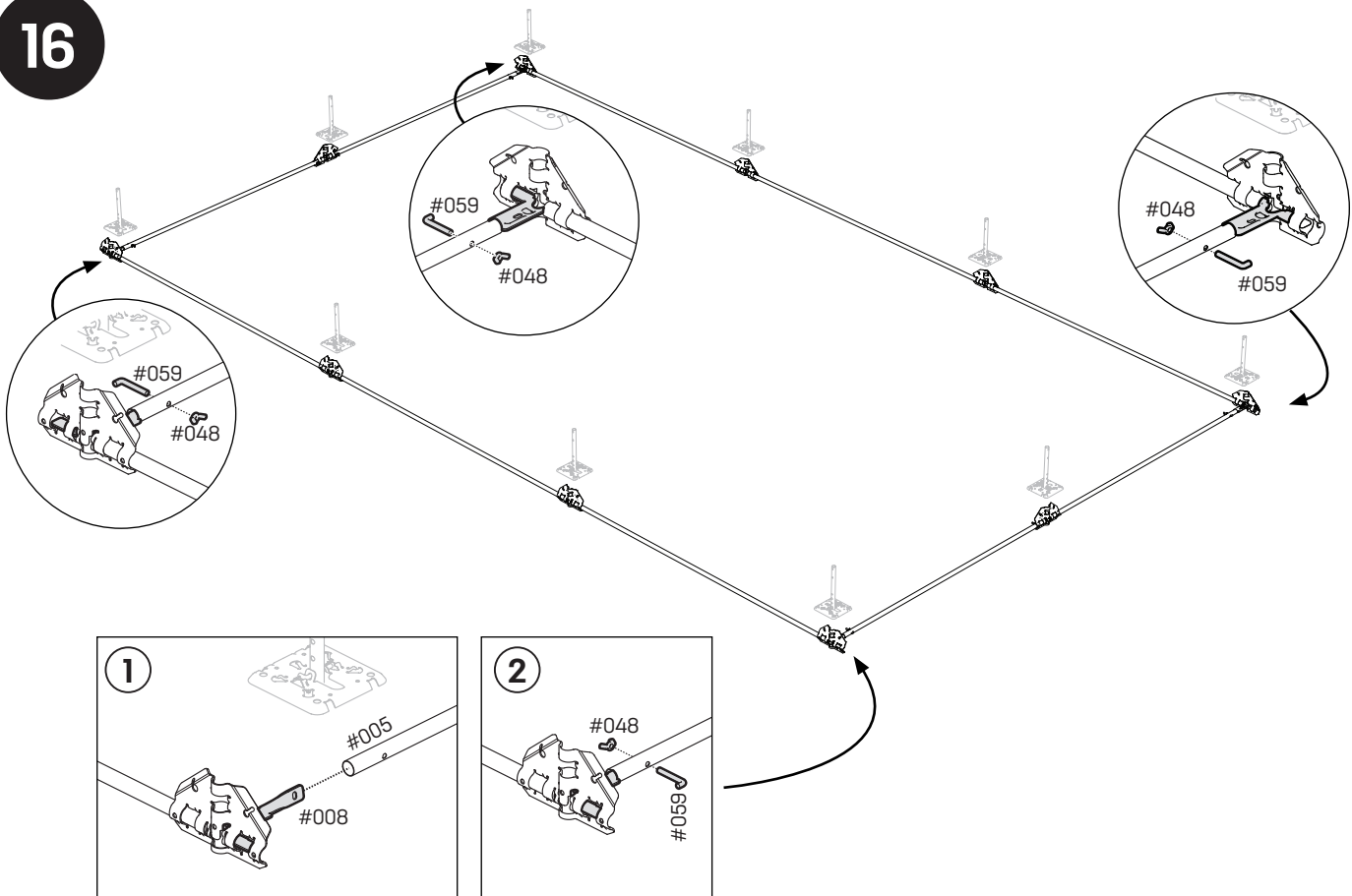
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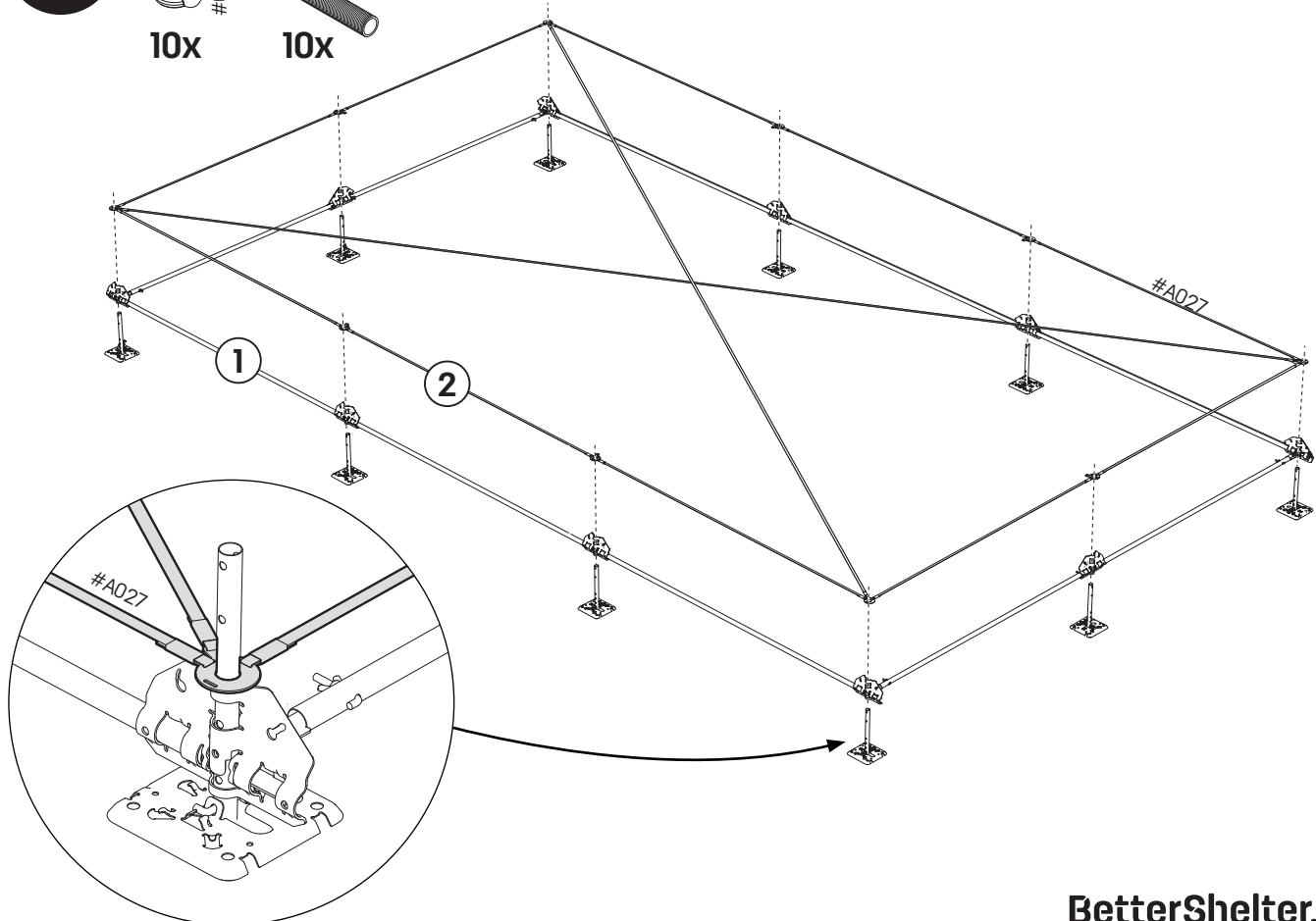
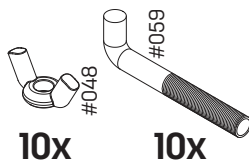
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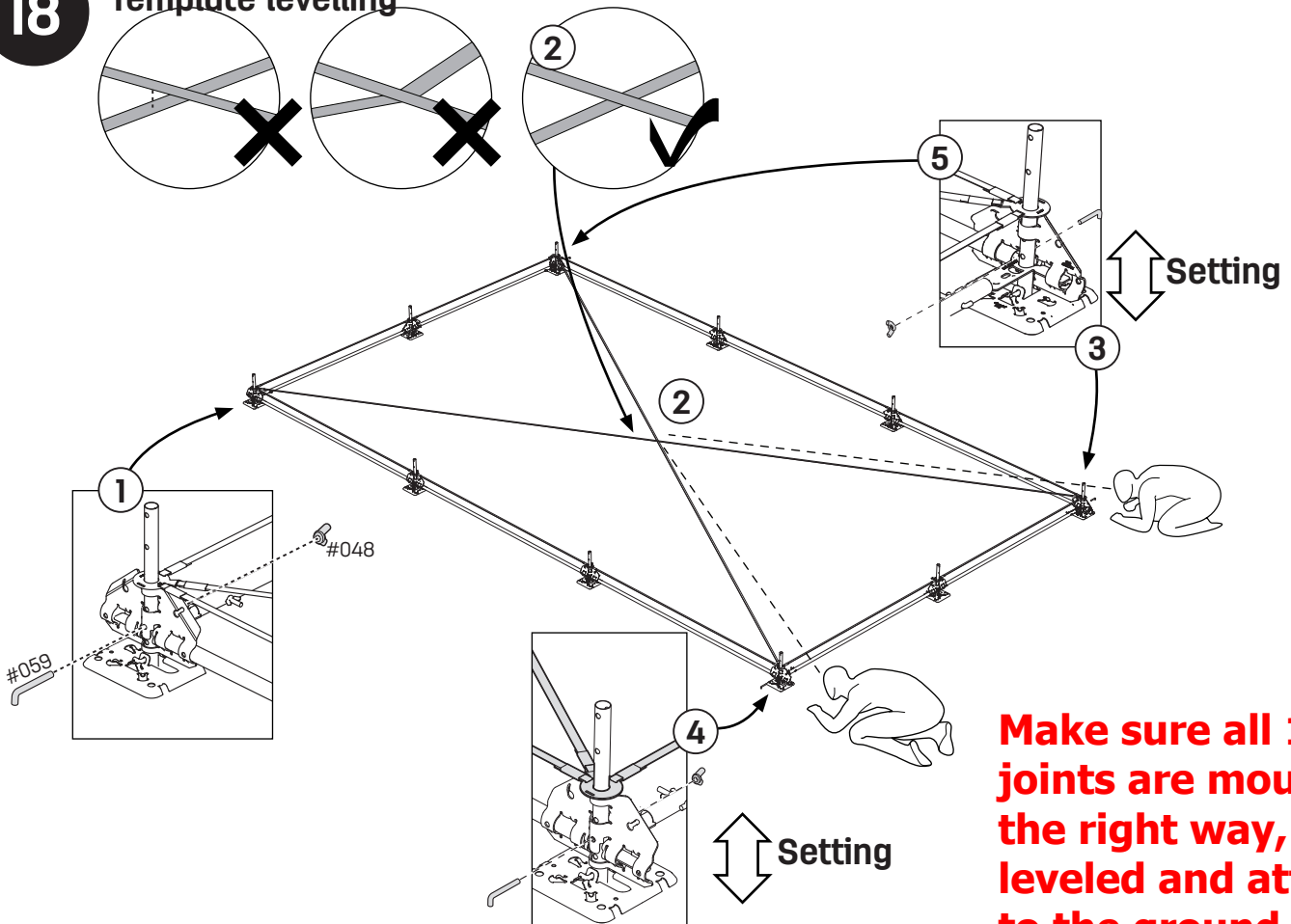


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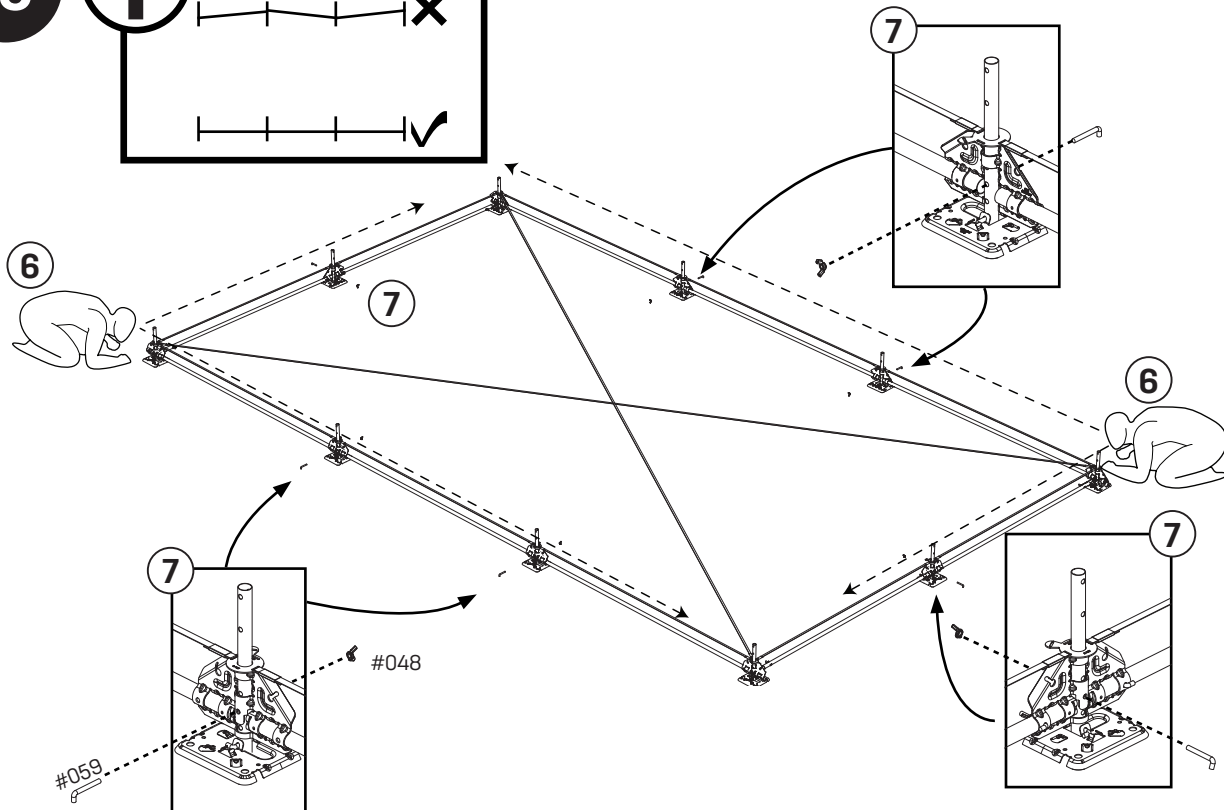
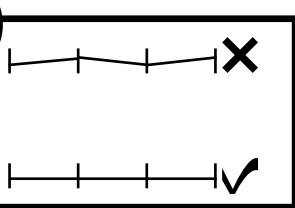


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Template levelling

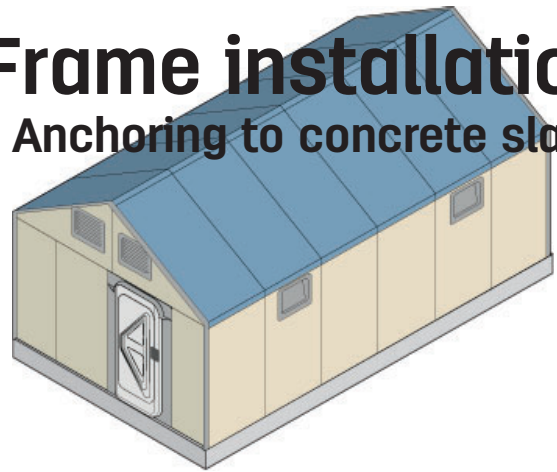


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Frame installation

Anchoring to concrete slab



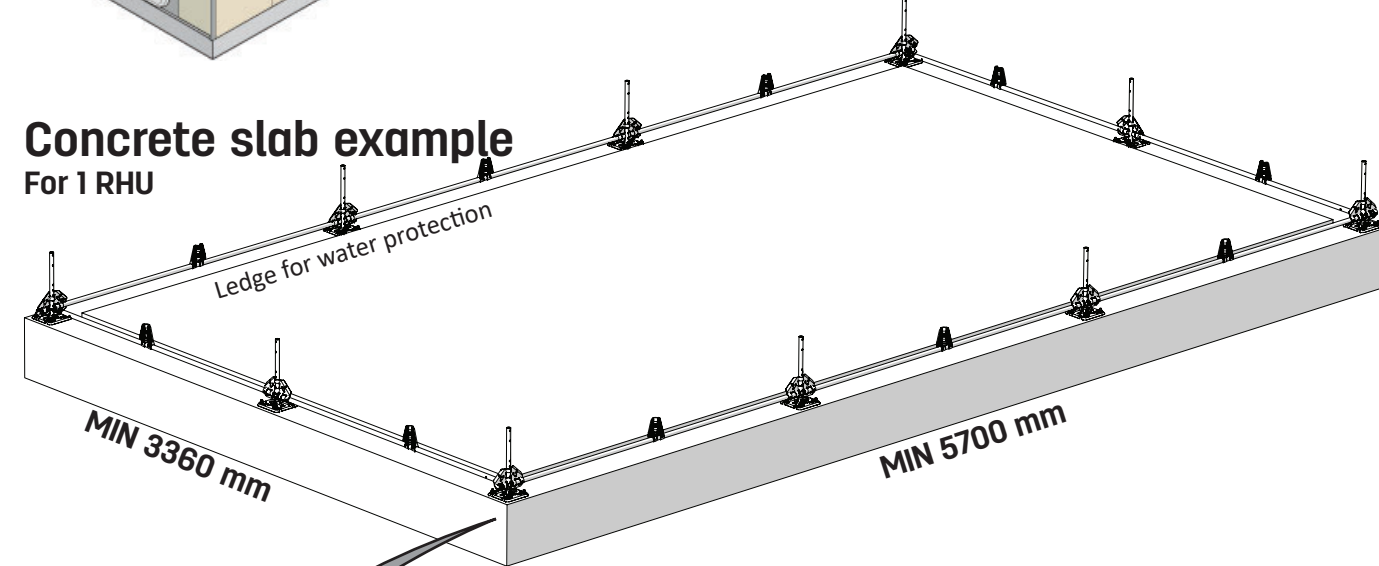
Improves performance in these situations:

Flooding prone areas.
High wind areas (coast etc).
Protracted situations.
Non-family applications, such as clinics, distribution centers etc, (i.e. high wear and tear).

Increases general wind resistance
Increases lifespan of shelter
Increases beneficiary comfort

Concrete slab example

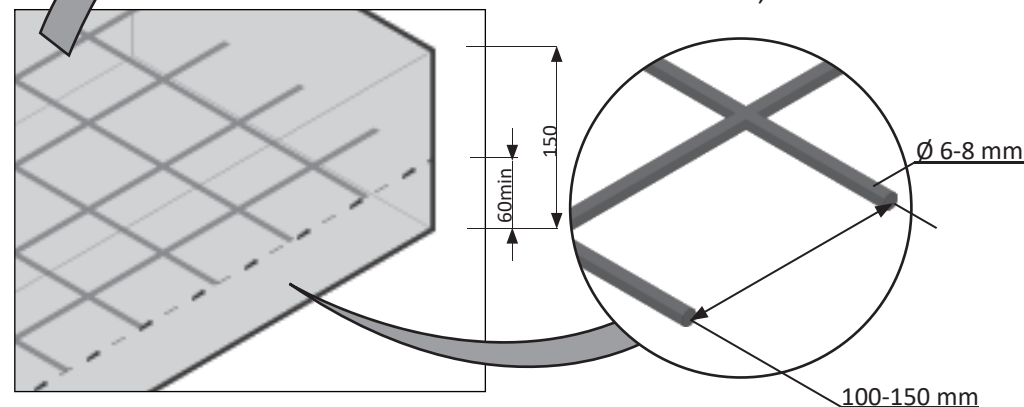
For 1 RHU



Concrete slab recommended dimensions

Minimum thickness 150 mm

Placement of reinforcement



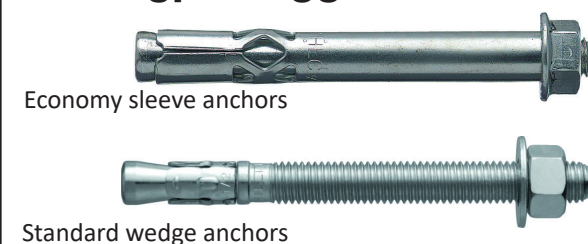
Recommended reinforcement bar type:

Mat, grid 100-150 mm
Bar, diam 6-8 mm

Bill of Quantity - 1 std RHU

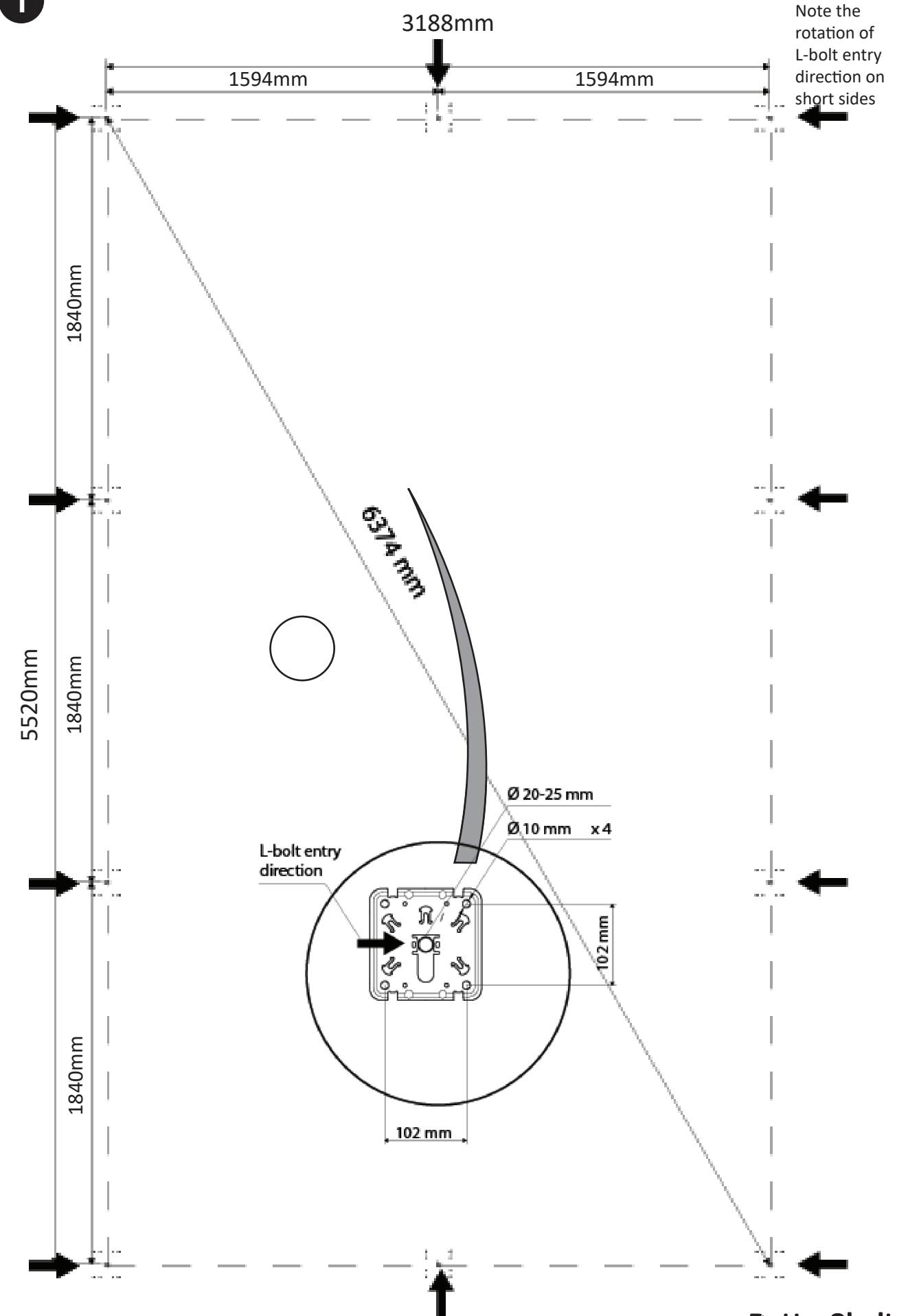
5-10 m measuring tape	Hammer
Thick black pencil	Suitable wrench
Power drill	Drill 20-25 mm diam
40x M8 anchors*	Drill (M8)
40x M8 washers	
40x M8 lock nuts	

Bolt type suggestion

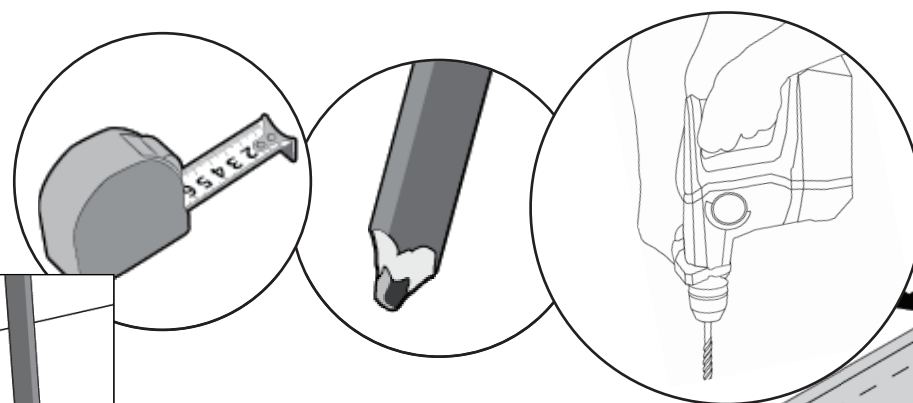
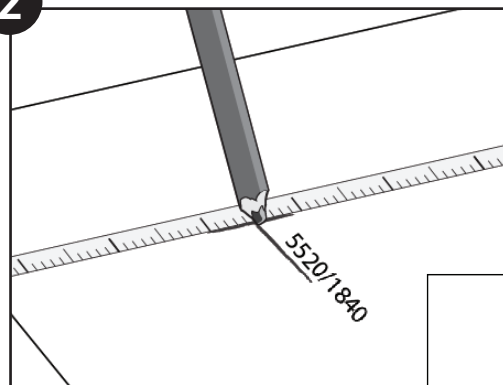


Concrete slab assembly Step by step

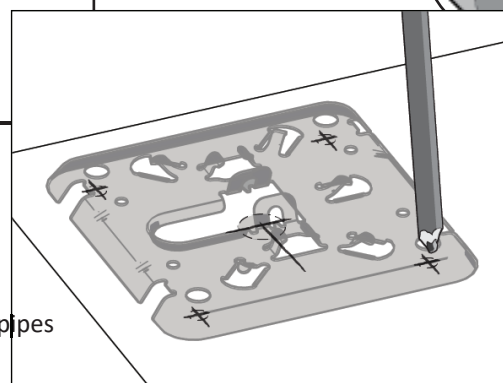
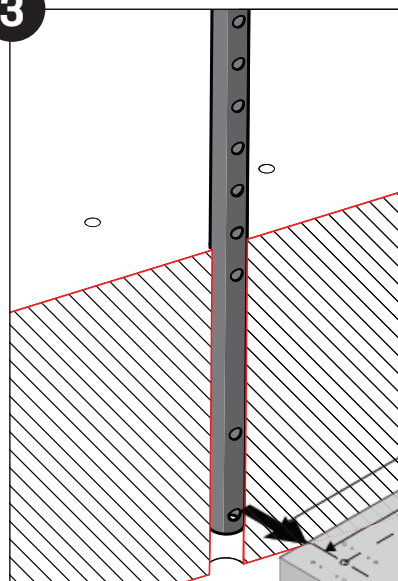
1 Mark out & Drill holes according to below drawing



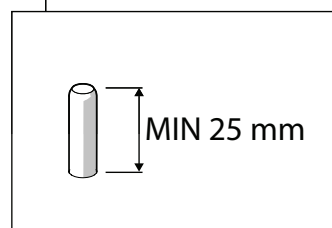
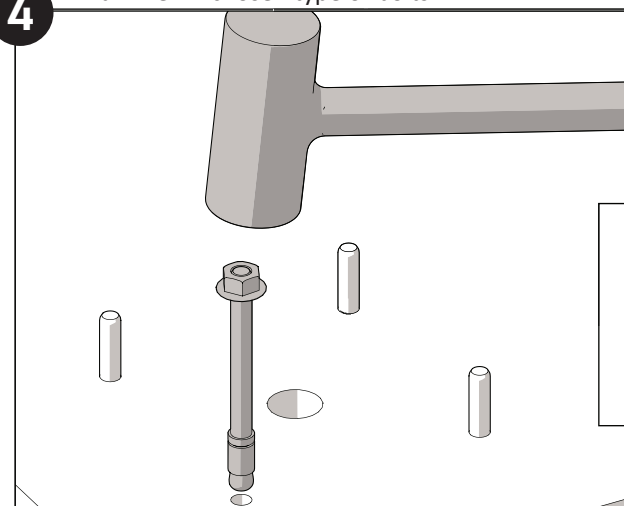
2 Use the ground plate as a detail template



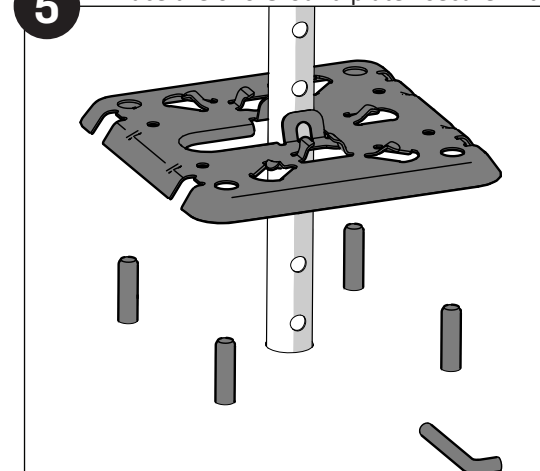
3 Recommended: Insert Ground pipes



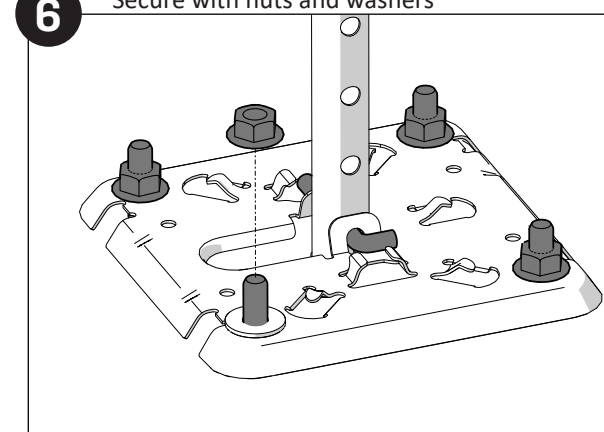
4 Hammer in chosen type of bolts



5 Place the 010 Ground plate - secure with bolt



6 Secure with nuts and washers



Do not overtighten

