

MANUAL

HERITAGE NORD T-SHAPE GREENHOUSE / GARDEN ROOM



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Call us 1-201-529-0531 or email us hello@yourgreenhouses.com



Dear Customer

Thank you for choosing YourGreenHouses!

Please read this installation manual carefully before beginning the installation. Reading the installation manual will help you avoid mistakes and damage when installing a greenhouse and ensure better results with less time.

If you have no previous experience in installing a greenhouse or construction work, we recommend using the services of an experienced craftsman or construction company. Errors that may be made during the installation process may lead to injury or product damage which is expensive to repair and voids our 15 year warranty.

All Heritage Nord greenhouses are made of natural heat treated wood (Thermowood). Wood is a natural material, so it is not possible to avoid twigs, cracks, small fissures, differences in shade and other characteristics of wood. These are not considered to be defects but something that is unique to every tree from where they have made their way into your product. Rest assured that these do not compromise the structure's quality.

If you have any doubts or questions during the installation process, feel free to contact us.

We wish you a successful installation!

 **YourGreenHouses**



1. FOUNDATION

Greenhouse installation always starts from preparation of the foundation. The appropriate type of foundation depends on the soil, the purpose and the size of the greenhouse. A strong concrete slab or ribbon foundation is suggested for but other foundation types are possible as well.

The foundation must be horizontally level and all angles 90 degrees. Only a proper, level and load-bearing foundation ensures an impeccable result. A failed foundation makes installation difficult, causes problems with the operation of doors, and reduces the stability and lifespan of the greenhouse.

NB! Subsequent damage to the greenhouse due to the foundation with poor quality is not covered by the warranty!

2. PLANNING

We strongly advise you to plan installation ahead and make sure that you are well prepared. Check the weather report and plan the installation for a dry and sunny day.

The assembly of our greenhouses is a two-person job. Some of the larger and heavier parts need at least two people to be able to lift them safely. If you decide to install the product alone, Lähe House will not be responsible for any injuries or harm done to the product.

3. TOOLS

Please be sure that you have all necessary tools and safety equipment before installation!

Cordless drill (preferably 2 pcs), wood drill ($\frac{3}{32}$ " $\frac{5}{32}$ " & $\frac{3}{16}$ "), metal drill ($\frac{3}{32}$ "), drill bits (TX20/25/30, HEX4), clamping screws (2 pcs), leveling tool, wrench $\frac{13}{32}$ " (2 pcs), wooden support bars (4 pcs), glass lifting suction cups (2 pcs), ladder (2 pcs), tape measure and work gloves.

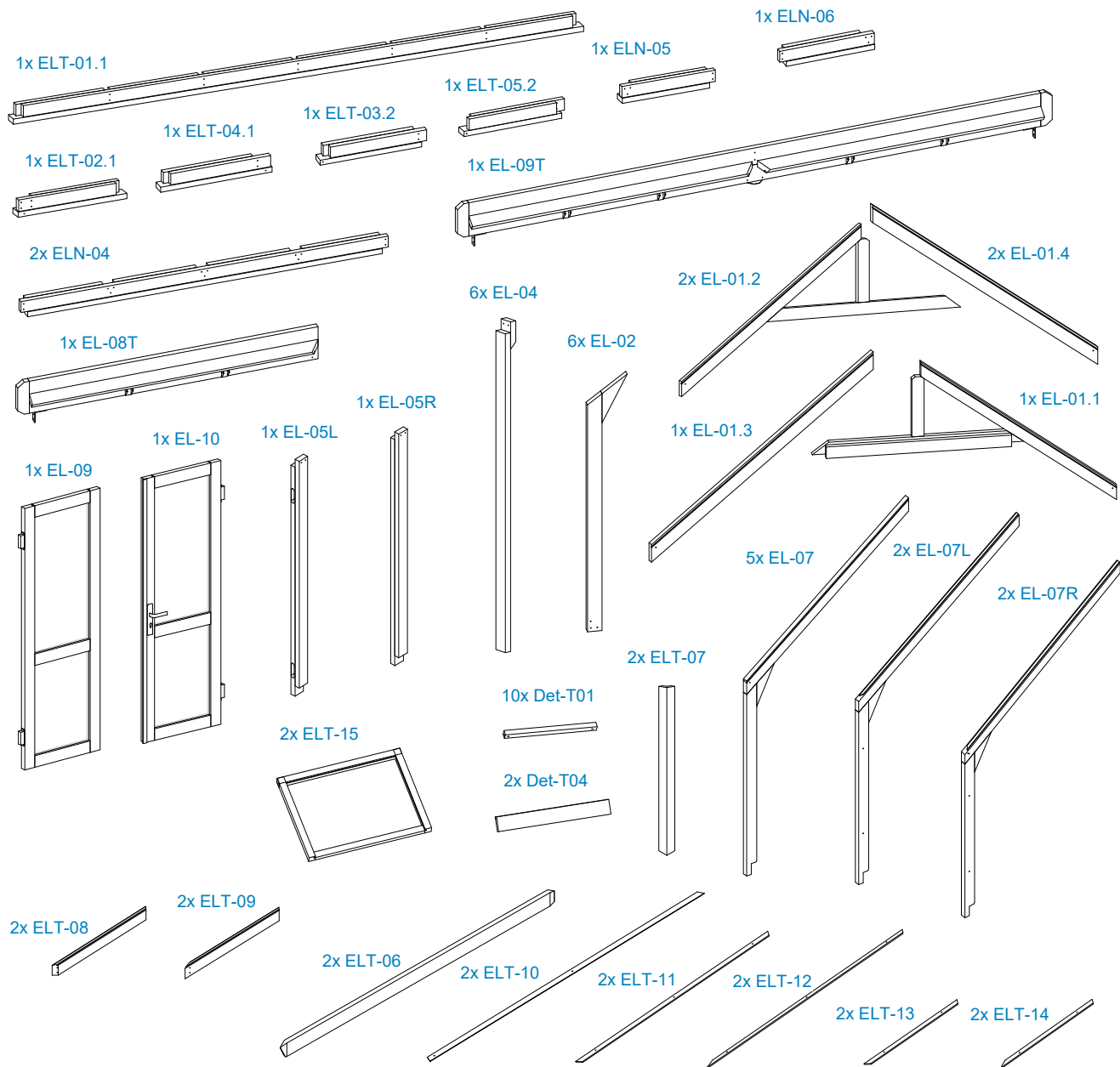
4. DETAILS

Numerous wooden details can be confusing when you unpack your greenhouse but sorting the details will help solve the puzzle. Remove the parts from the package and assemble the similar parts into bundles. Choose a flat and clean work surface that offers necessary support for storing details before installation. Follow the markings on the details. Two parts with the same symbol will be connected during installation. During sorting, you will be assured that all the necessary details are present and without defects.

ATTENTION: When opening the greenhouse package, the presence of parts and possible defects must be checked immediately. Missing details and defects must be reported before installing the greenhouse. Otherwise, the greenhouse may lose its warranty.

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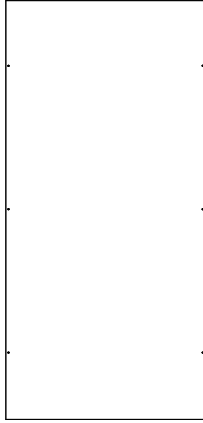
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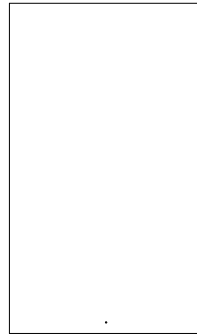
8x KKT-02



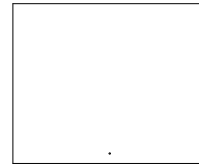
10x KKT-01



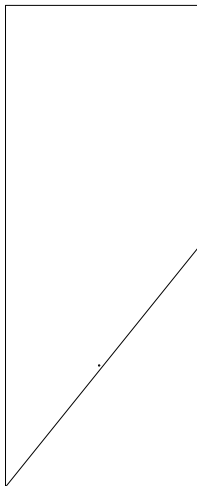
2x KKT-03



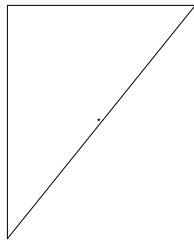
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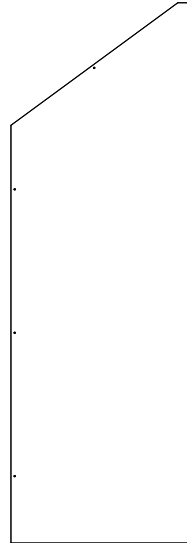
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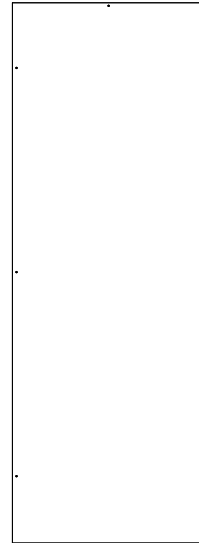
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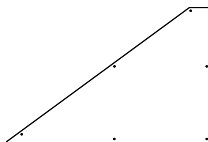
6x OK-02



4x OK-03



6x OK-01



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5. FASTENERS

No.	Image	Description	Quantity	Drill Bit
1		Wood screw, round head 4×20	28 pcs	TX20
2		Wood screw, round head 5×40	20 pcs	TX25
3		Wood screw, hidden head 5×80	50 pcs	TX25
4		Wood screw, hidden head 4×30	32 pcs	TX25
5		Wood screw, hidden head 5×40H	14 pcs	TX25
6		Construction screw 6.5×90	57 pcs	TX30
7		Construction screw 6.5×130	10 pcs	TX30
8		Glass screw 6.3×30 + PVC washer	186 pcs	HEX4
9		M6×55 mm bolt + nut + washer	13 pcs	–
10		Wooden dowel	20 pcs	–

Note: There may be extra fasteners included in the kit.

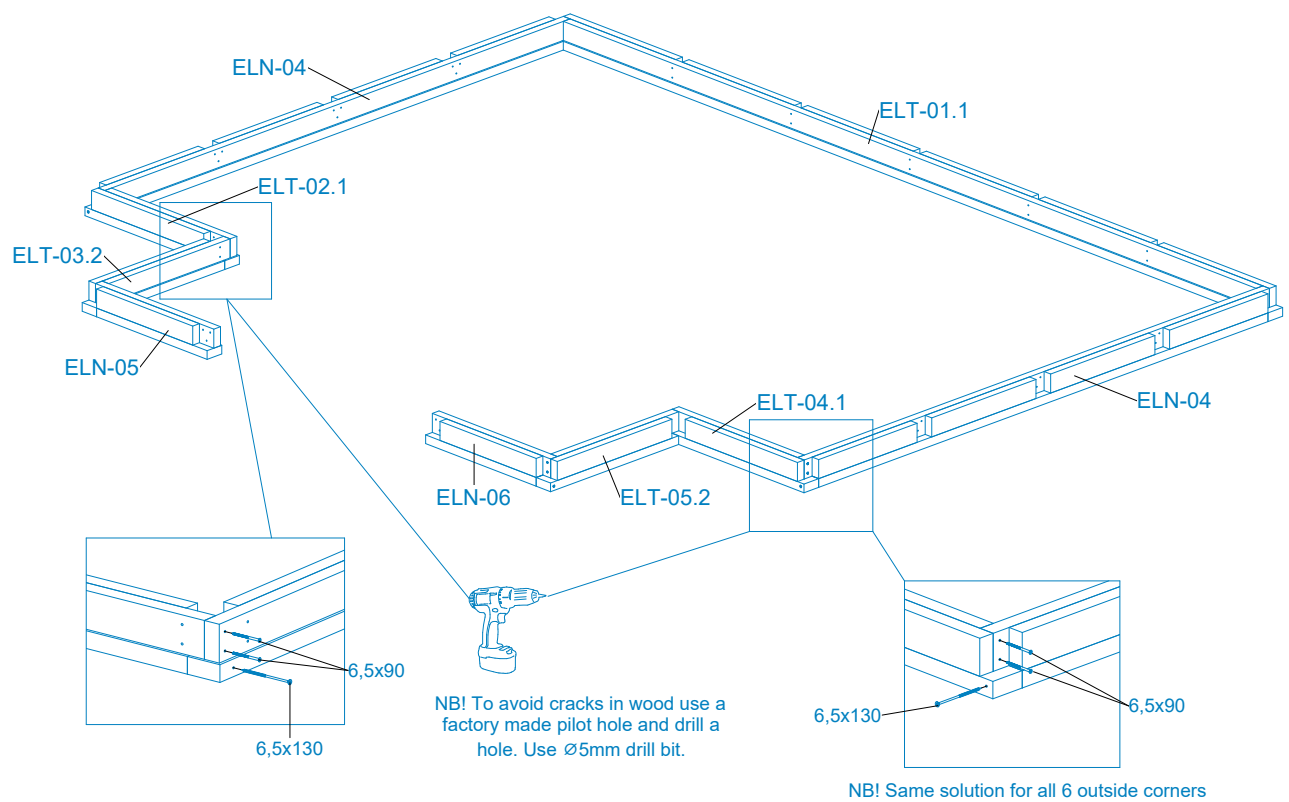
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6. INSTALLATION OF BASE FRAME

Place the greenhouse base frame elements in a intended position on the foundation. Place hydroisolation layer (not included in installation kit) between foundation and greenhouse base frame. Fasten elements together with screws. To avoid cracks in wood use a factory made pilot holes and drill $\frac{3}{16}$ " holes in advance.



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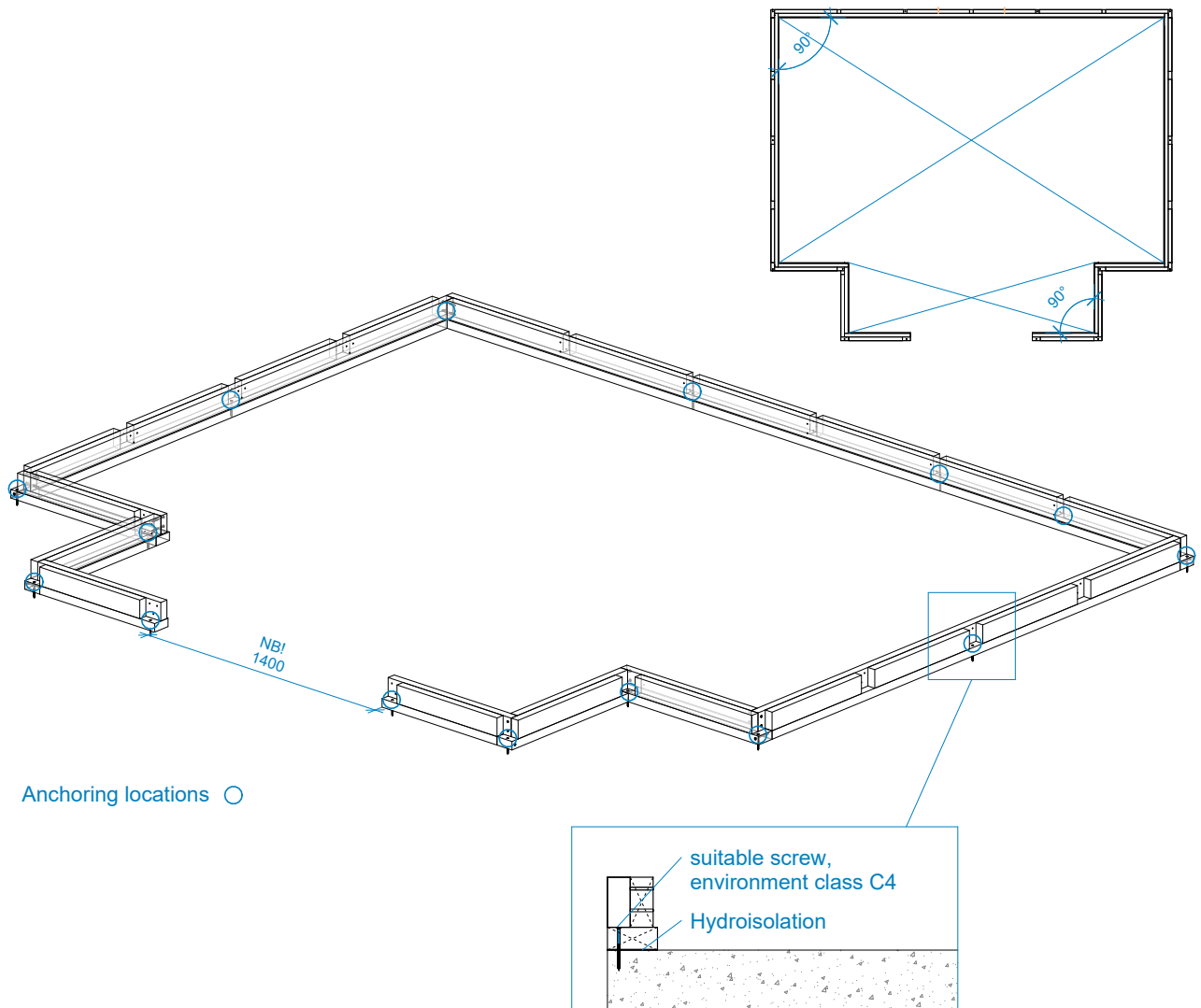


7. ATTACHING GREENHOUSE BASE FRAME TO THE FOUNDATION

Make sure that base frame is in the intended location. Before attaching greenhouse base frame to the foundation, make sure that the corners of the base frame are 90 degrees and the diagonals are of equal length!

Attach the greenhouse to the foundation through the base frame at the marked locations. Drill the holes in advance and fasten using suitable screws (depending on the foundation type; not included).

NB! Make sure that the base frame elements ELN-05 and ELN-06 are horizontally level and at the same height. Gap between these base frame elements must be exactly 4' 7 $\frac{1}{8}$ "



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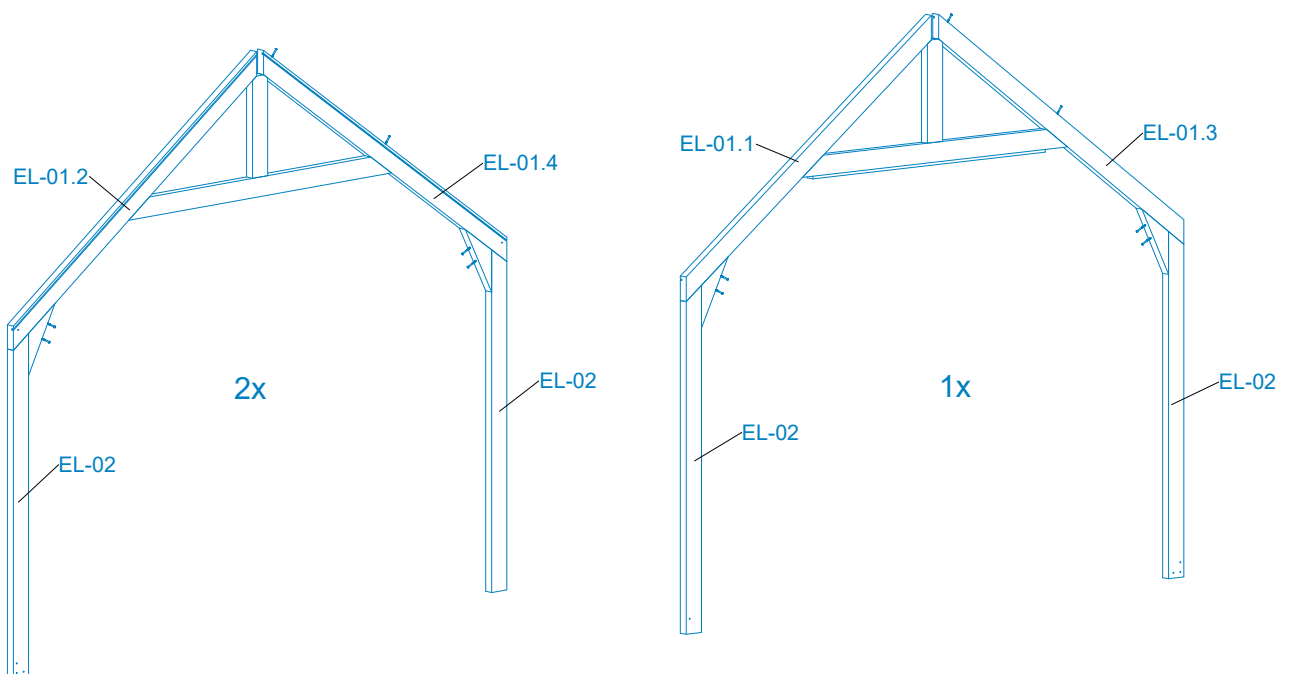
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8. INSTALLATION OF END WALL FRAMES

Assemble end wall frame elements. Choose a flat and clean work surface that offers necessary support for correct assembling. All screws are already attached. Follow markings and place elements to correct positions. Fasten screws into pre-drilled holes.

NB! Elements must be strongly assembled into solid units. Make sure that there are no gaps between elements.



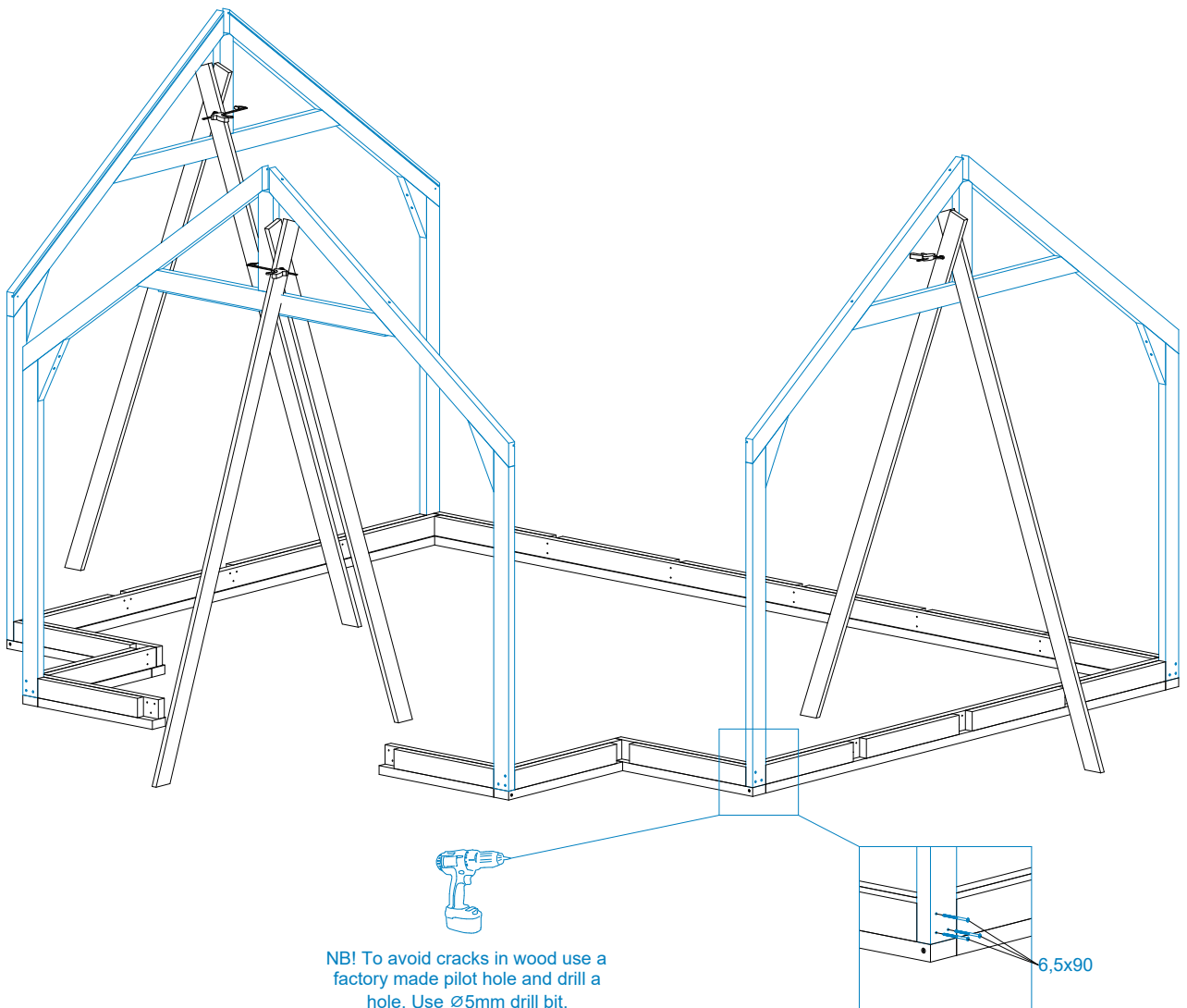
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Place assembled end wall frames to the base frame ends and fasten with screws. To avoid cracks in wood use a factory made pilot holes and drill $\frac{3}{16}$ " holes in advance.

NB! Use longer wooden bars as a support and secure them with a clamping screws. Use transportation box top bars as supports!



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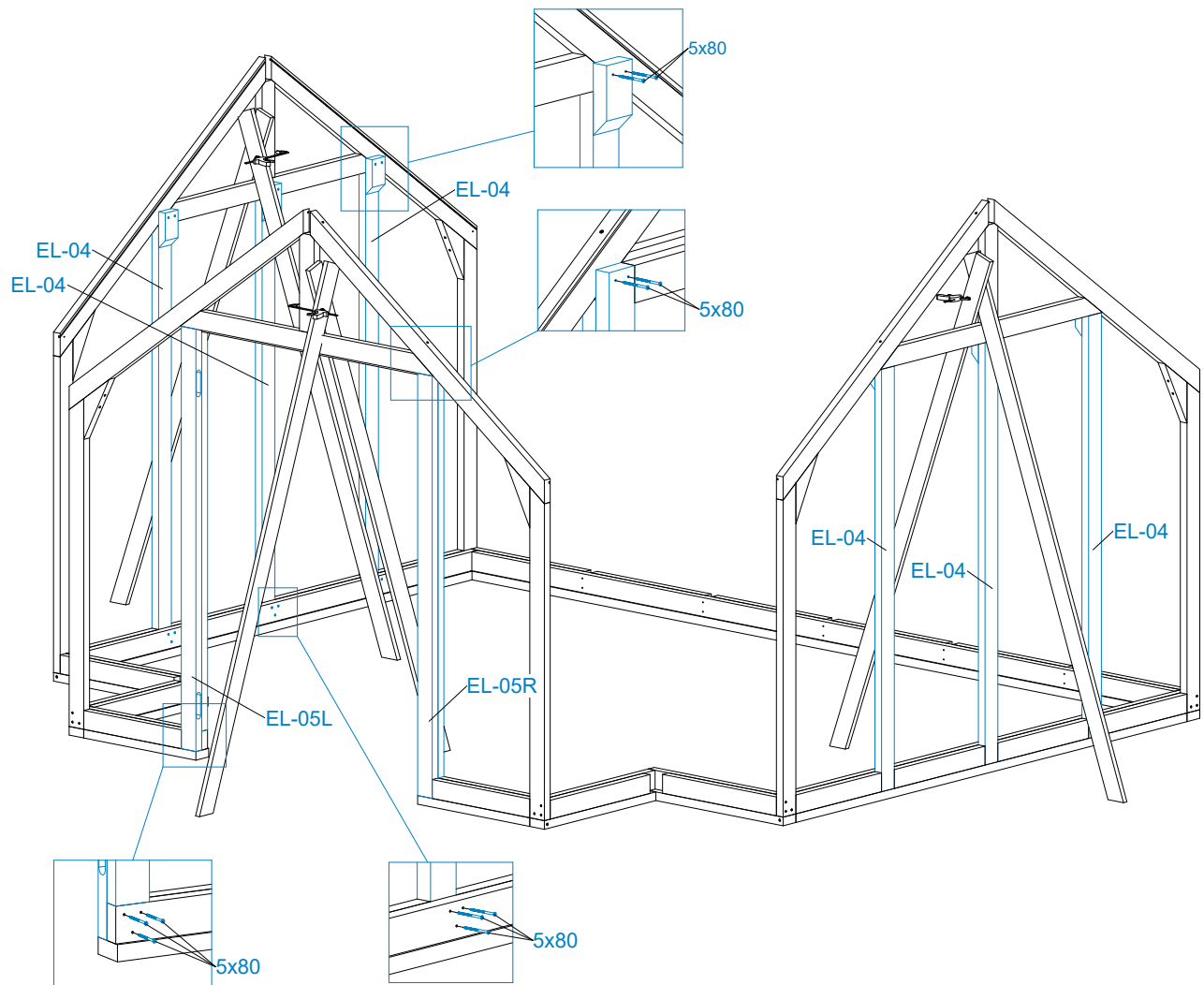
9. INSTALLATION OF END WALL POSTS

Place end wall posts to intended locations and fasten with screws.

NB! Make sure that posts are vertically level and distances between posts are equal from top and bottom!

Place door posts to intended locations and fasten with screws.

NB! Make sure that the door posts are vertically level and the width of the door opening is 4' 7 $\frac{1}{8}$ " at the top and bottom! If necessary, adjust the posts and the base frame.



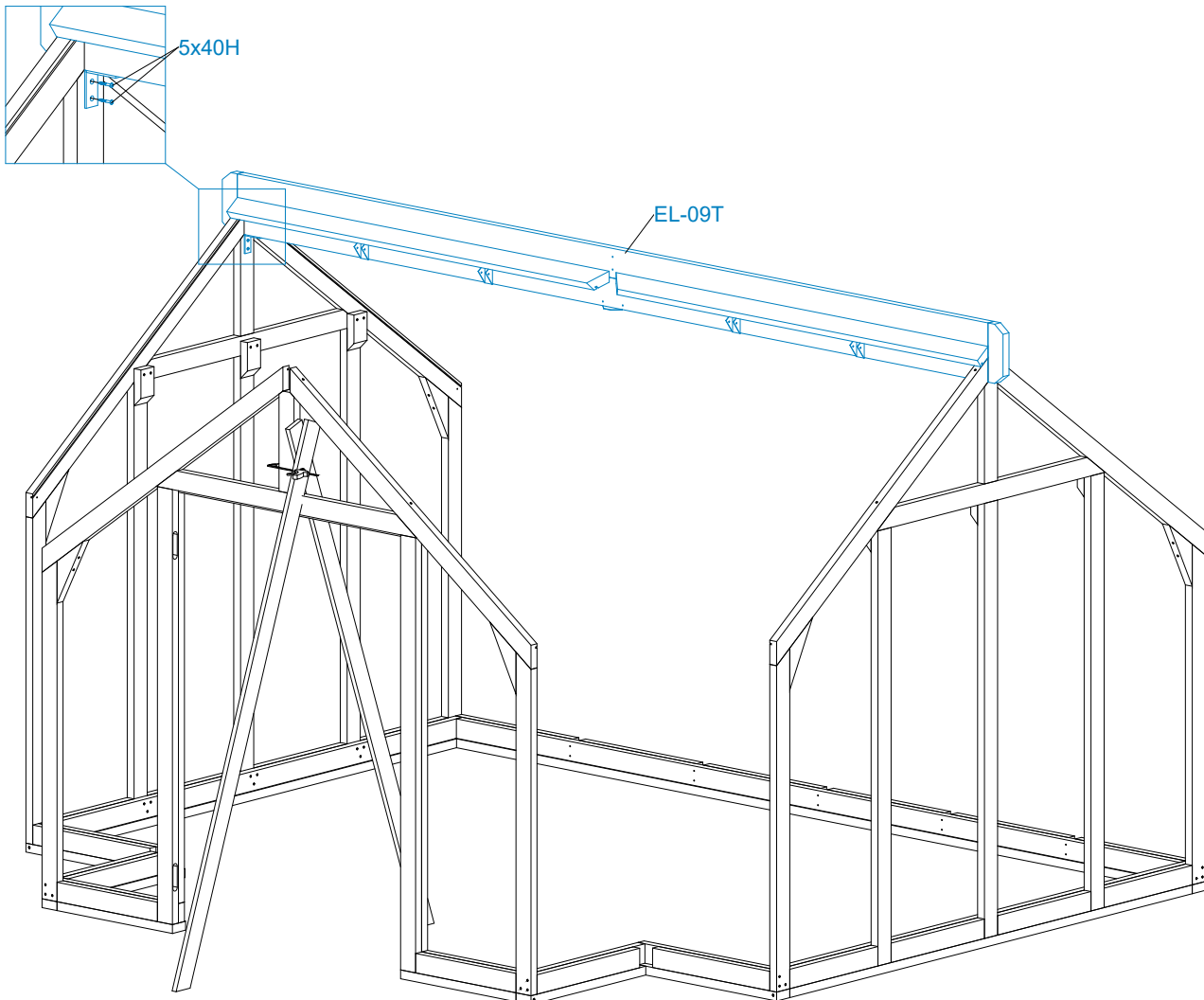
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10. INSTALLATION OF MAIN RIDGE BEAM

Place main ridge beam on top of the end wall frames. Metal brackets are already attached to the ridge beam. Fasten with screws.



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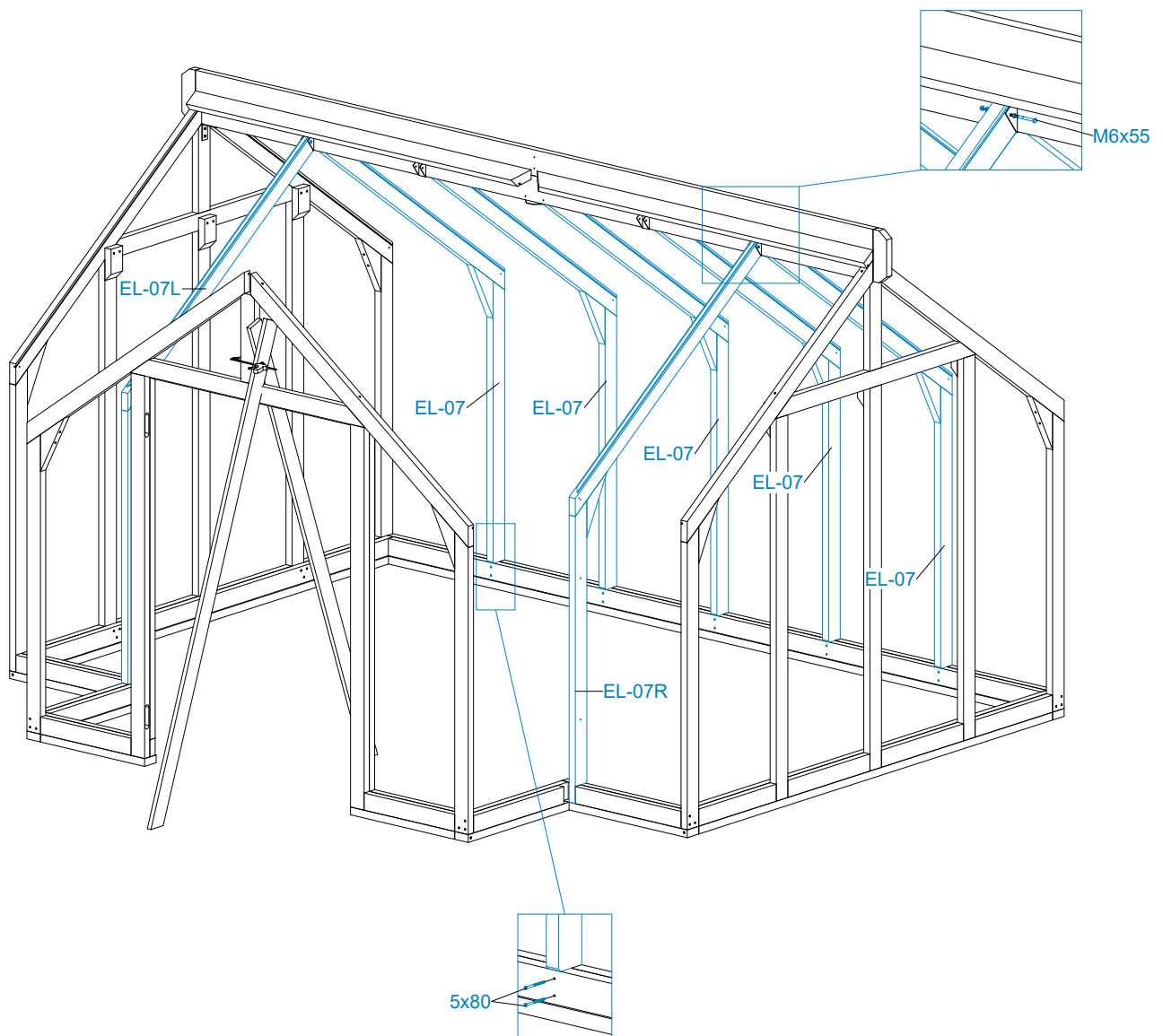


11. INSTALLATION OF RAFTERS (PART 1)

Place lower end of the rafters to the intended location in base frame and upper end of the rafters to the ridge beam metal carrier. Fasten lower end with screws and upper end with an M6 bolt, washer and nut.

NB! Make sure that corner rafters (EL-07L and EL-07R) are in correct position!

NB! Make sure that the edge of the metal carrier does not cover rafter glass groove!



NB! Tighten the nut only later after installing the rafter middle details!

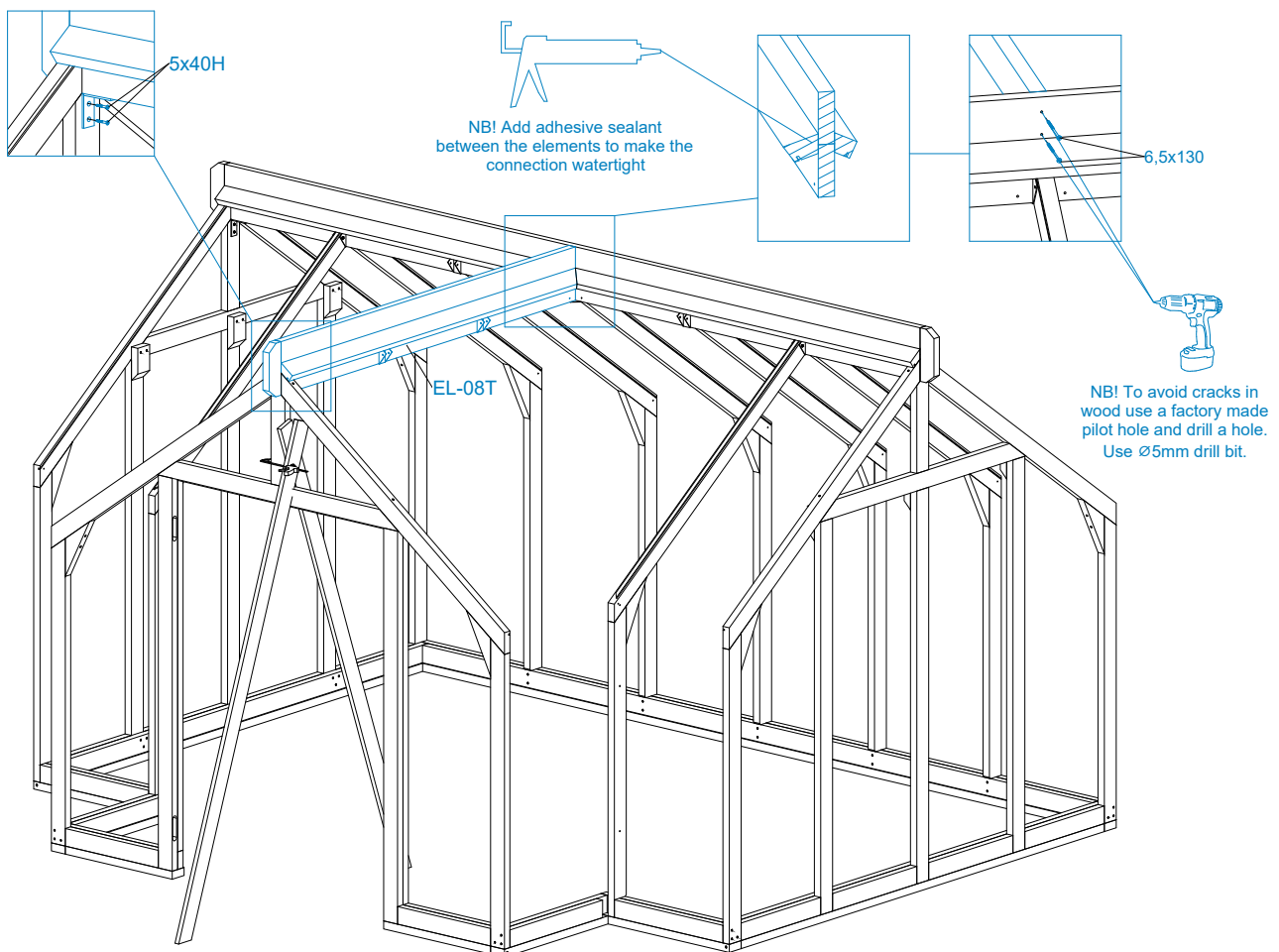
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12. INSTALLATION OF MINOR RIDGE BEAM

Place minor ridge beam one end on top of the end wall frame (metal bracket is already attached to the ridge beam) and other end to intended location at the side of main ridge beam. Fasten with screws. To avoid cracks in wood use a factory made pilot holes and drill $\frac{3}{16}$ " holes in advance.



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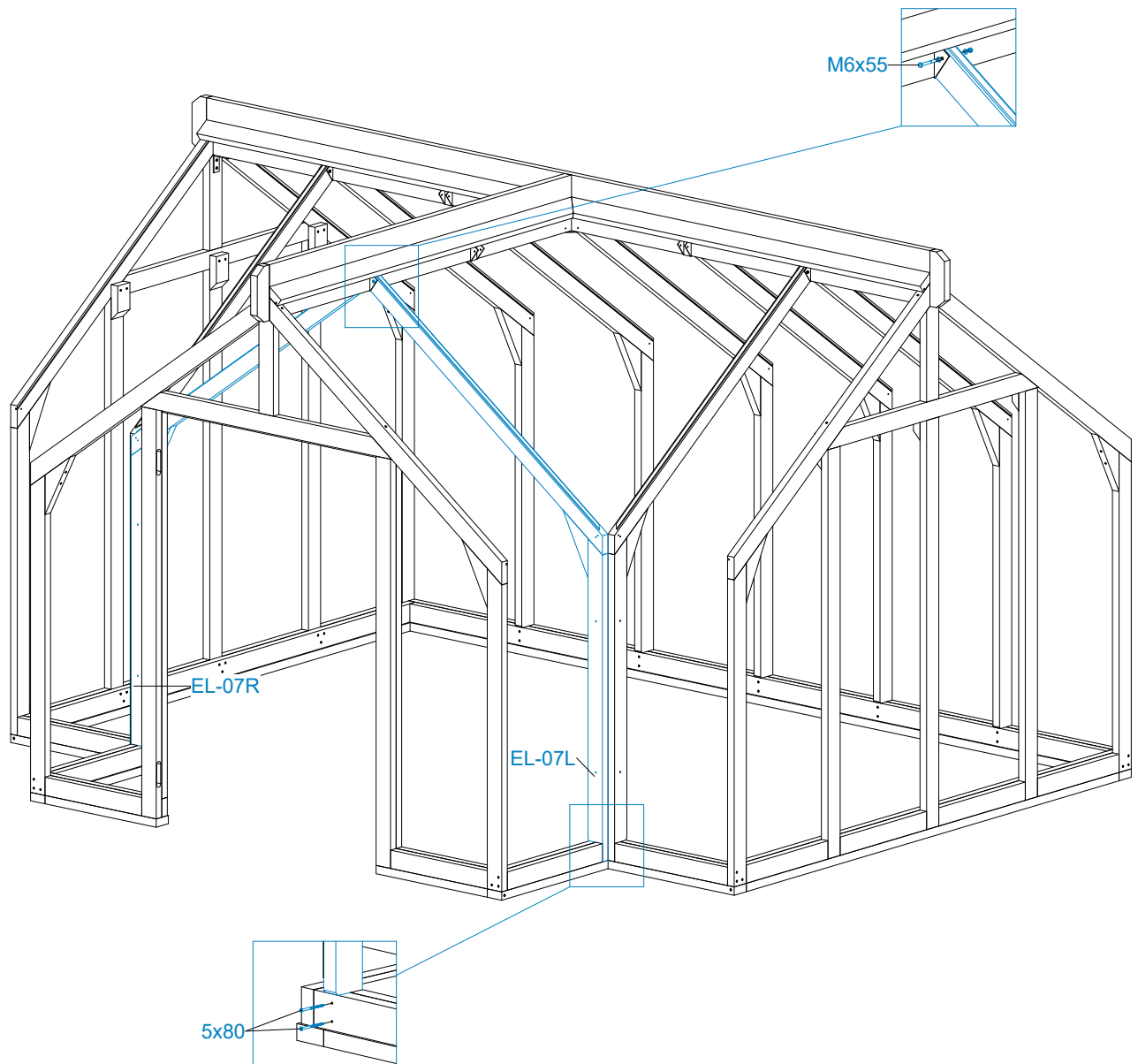
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13. INSTALLATION OF RAFTERS (PART 2)

Place lower end of the corner rafters (EL-07L and EL-07R) to the intended location in base frame and upper end of the rafters to the ridge beam metal carrier. Fasten lower end with screws and upper end with an M6 bolt, washer and nut.

NB! Make sure that the edge of the metal carrier does not cover rafter glass groove!



NB! Tighten the nut only later after installing the rafter middle details!

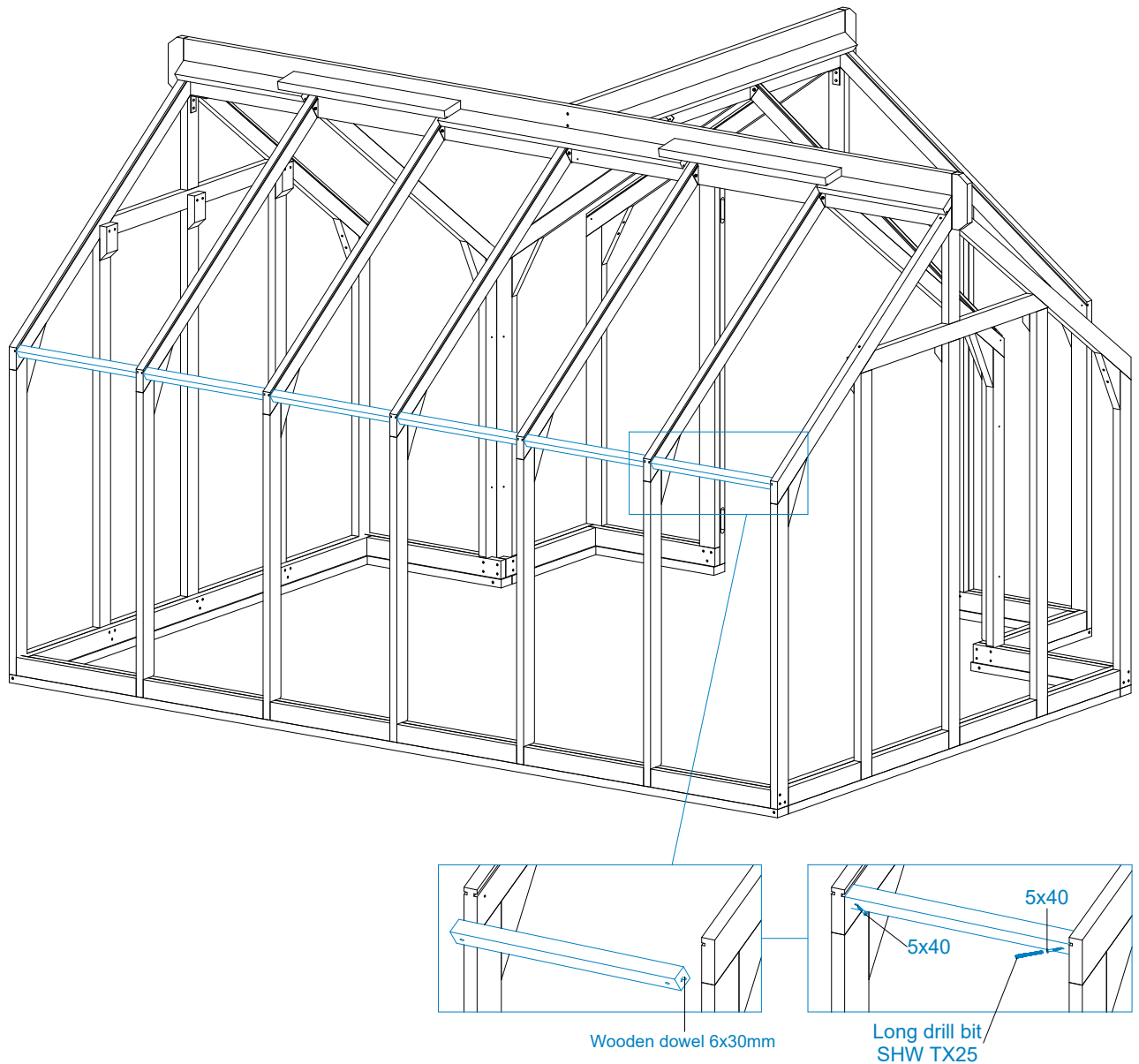
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14. INSTALLATION OF RAFTER MIDDLE DETAILS (PART 1)

Place wooden dowels to holes at the ends of rafter middle detail and place it between two rafters so that it is attached. Make sure that edge of the rafter middle detail is parallel with rafter glass groove and do not block groove. Fasten rafter middle detail to rafters with screws.



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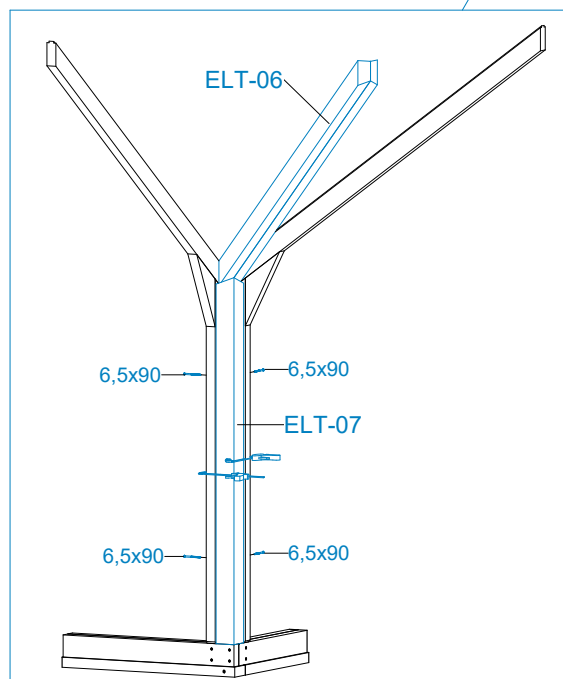
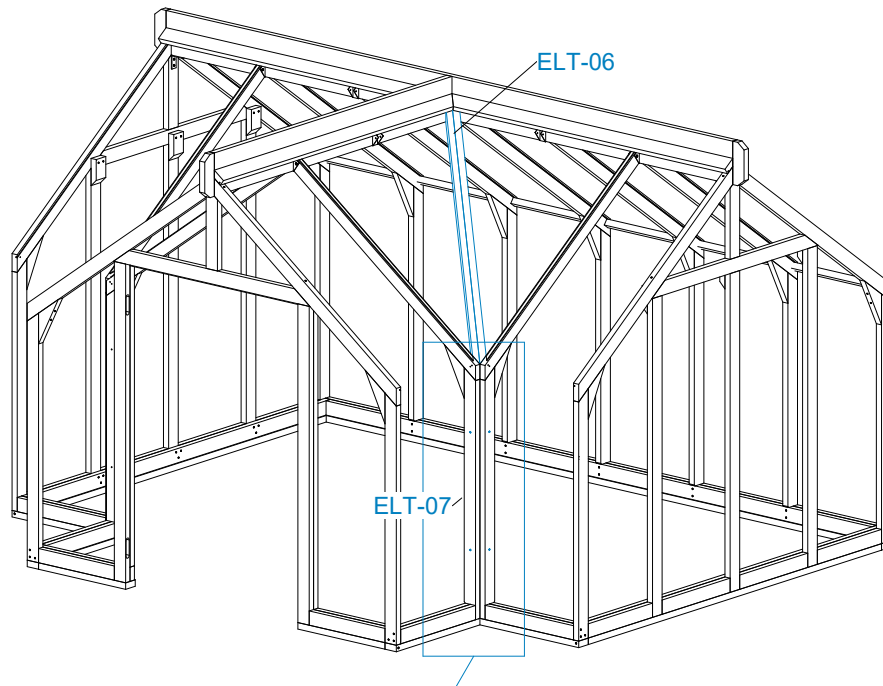
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15. INSTALLATION OF RIGHT VALLEY RAFTER

Place valley rafter corner post to intended location and secure with a clamping screws. Fasten post to rafters with screws. To avoid cracks in wood use a factory made pilot holes and drill $\frac{3}{16}$ " holes in advance.

Place upper end of the valley rafter to the intended location in the corner of ridge beams and lower end on top of the corner post.



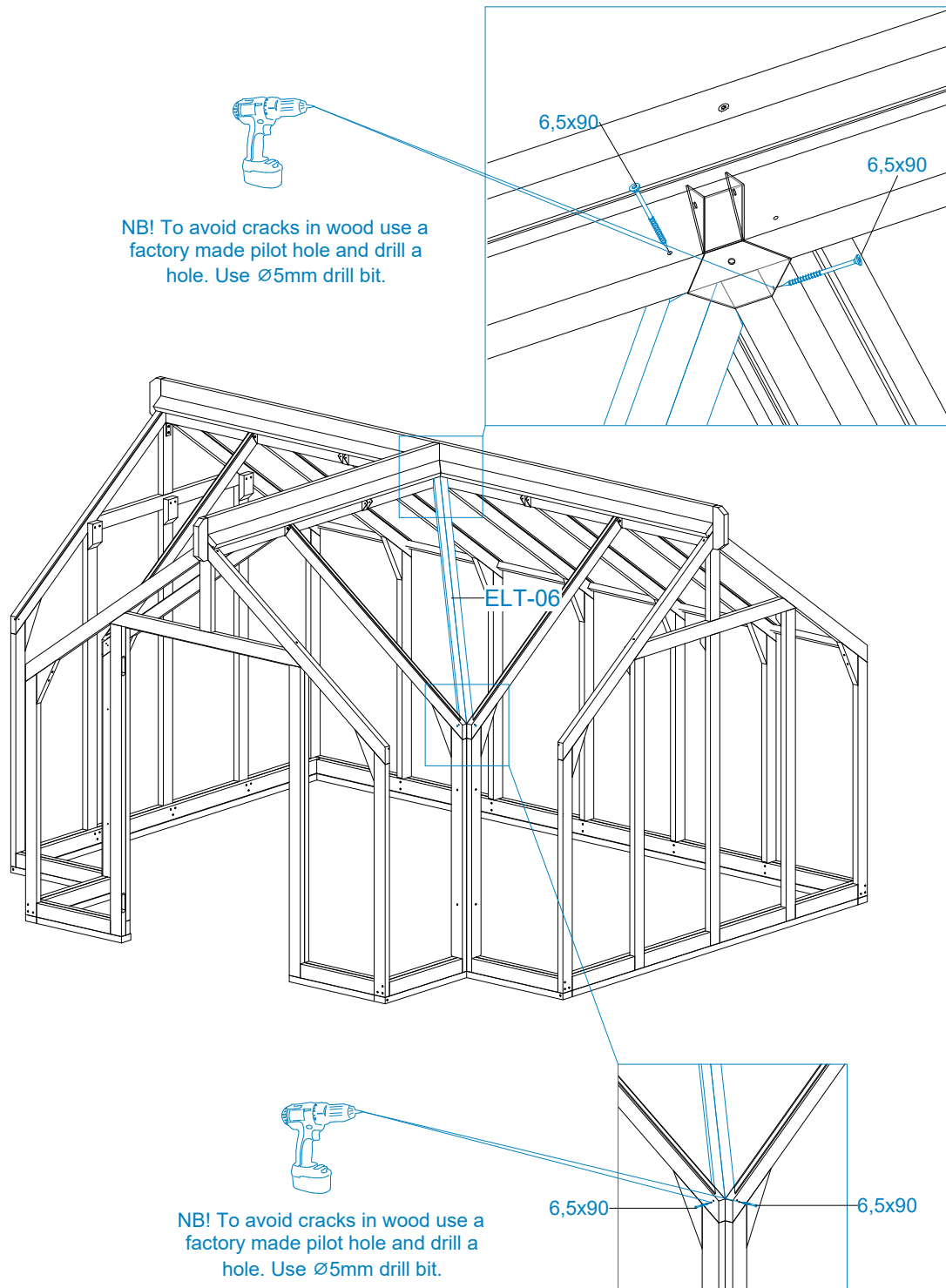
NB! To avoid cracks in wood use a factory made pilot hole and drill a hole. Use Ø5mm drill bit.

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Make sure that valley rafter is correctly positioned and there are no gaps between elements. Fasten valley rafter with screws. To avoid cracks in wood use a factory made pilot holes and drill $\frac{3}{16}$ " holes in advance.



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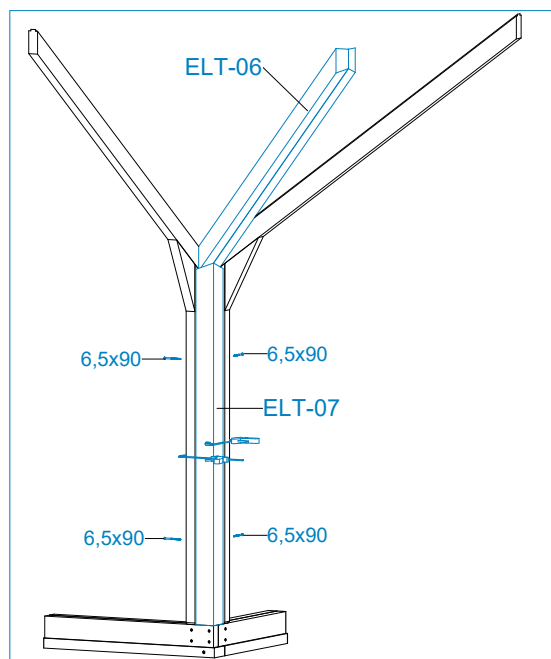
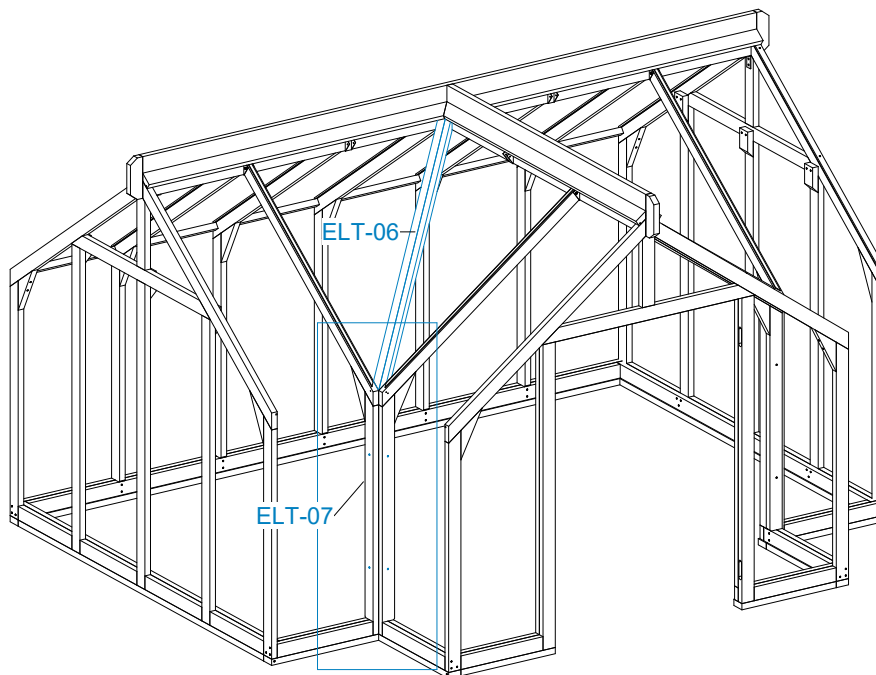
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16. INSTALLATION OF LEFT VALLEY RAFTER

Place valley rafter corner post to intended location and secure with a clamping screws. Fasten post to rafters with screws. To avoid cracks in wood use a factory made pilot holes and drill $\frac{3}{16}$ " holes in advance.

Place upper end of the valley rafter to the intended location in the corner of ridge beams and lower end on top of the corner post.



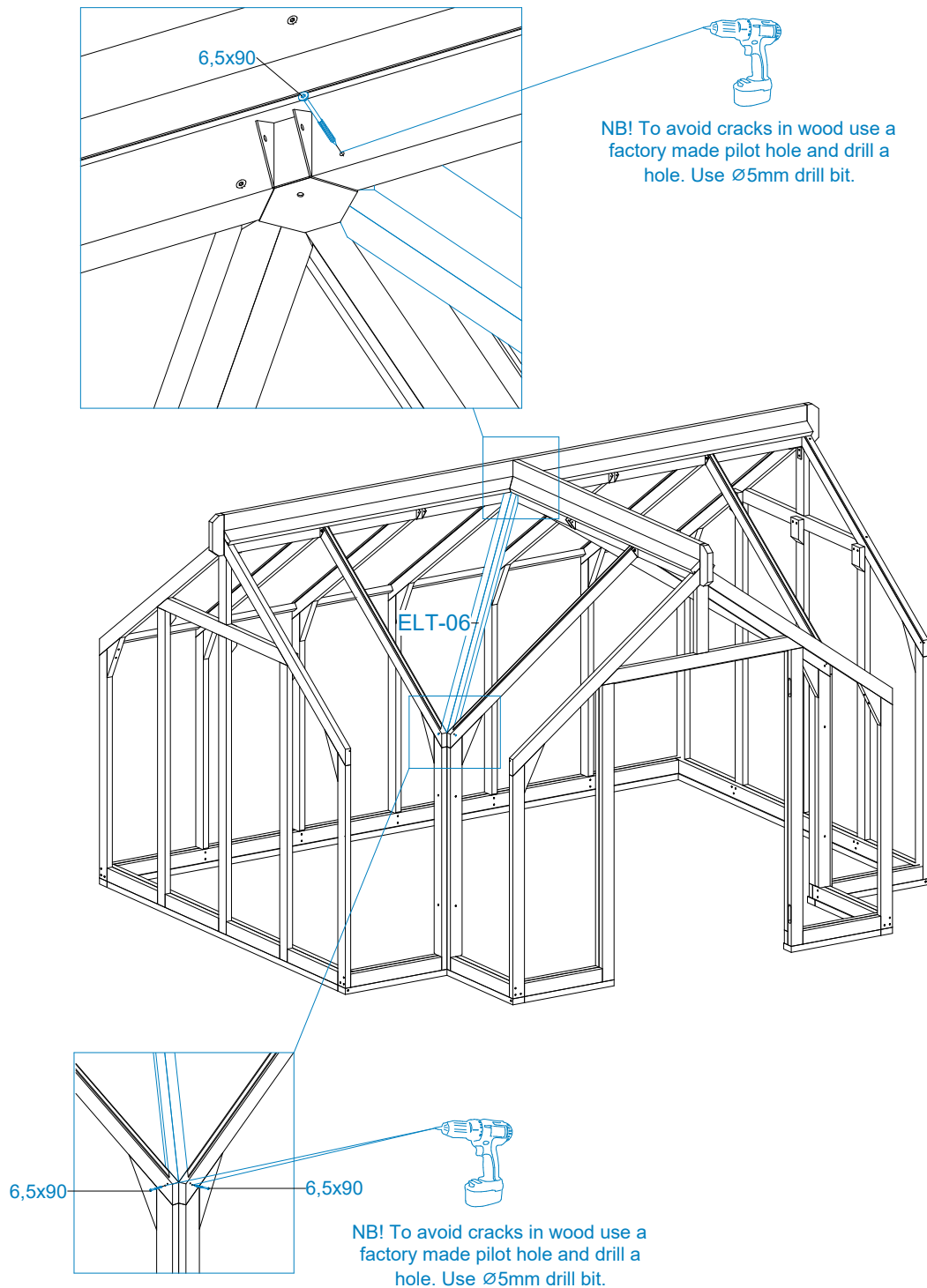
NB! To avoid cracks in wood use a factory made pilot hole and drill a hole. Use Ø5mm drill bit.

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Make sure that valley rafter is correctly positioned and there are no gaps between elements. Fasten valley rafter with screws. To avoid cracks in wood use a factory made pilot holes and drill $\frac{3}{16}$ " holes in advance.



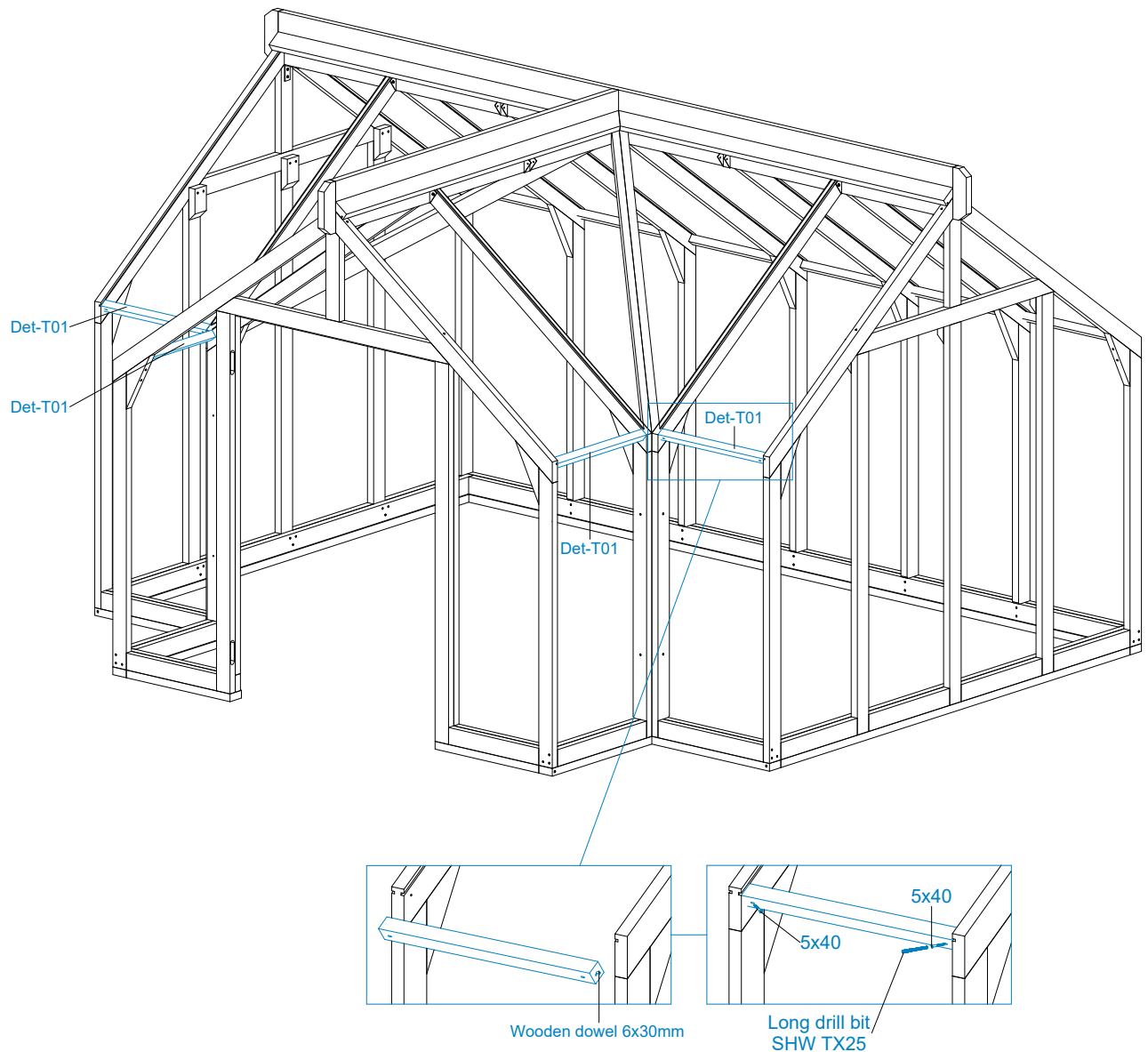
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17. INSTALLATION OF RAFTER MIDDLE DETAILS (PART 2)

Place wooden dowels to holes at the ends of rafter middle detail and place it between two rafters so that it is attached. Make sure that edge of the rafter middle detail is parallel with rafter glass groove and do not block groove. Fasten rafter middle detail to rafters with screws.



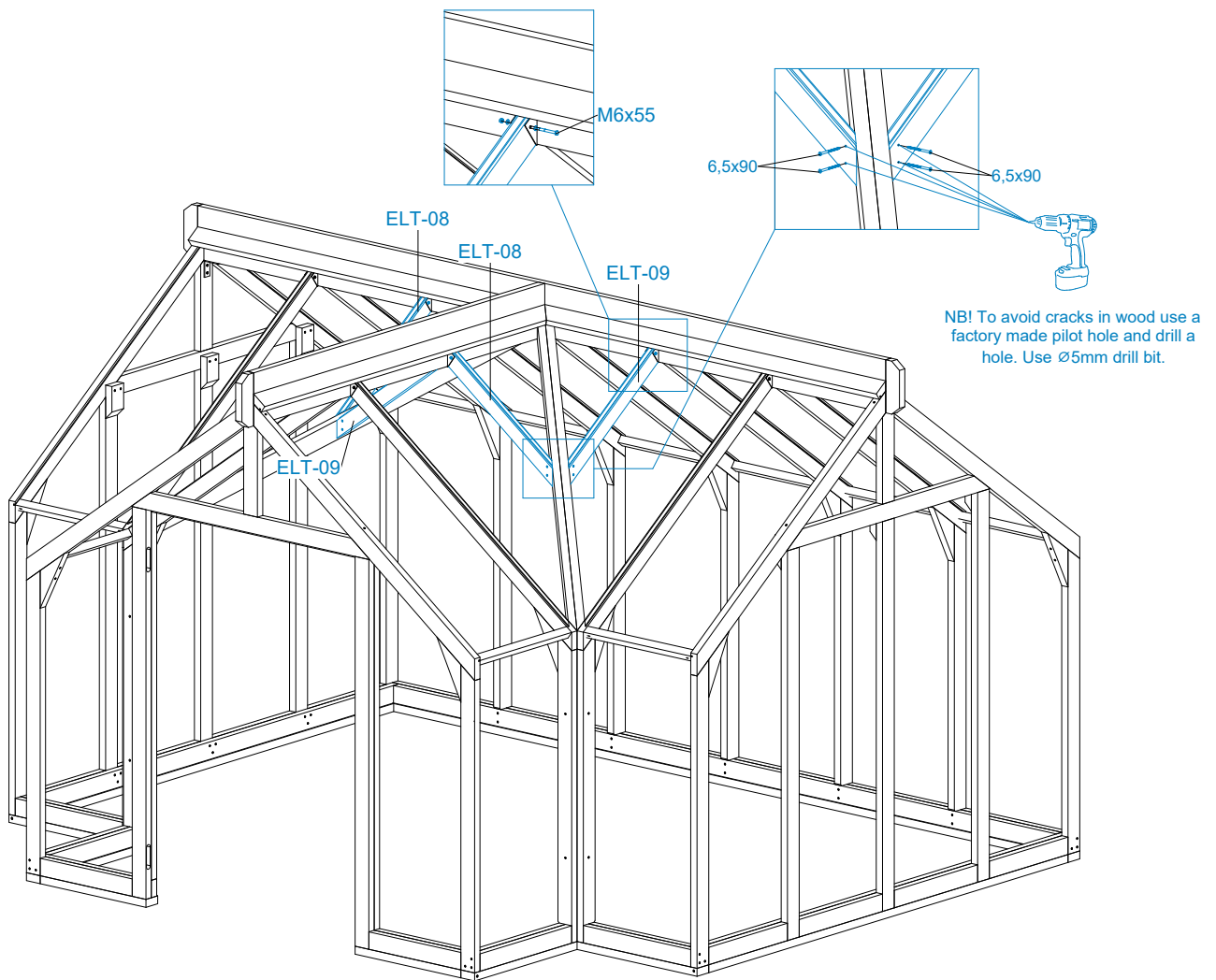
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18. INSTALLATION OF VALLEY JACK RAFTERS

Place upper end of the jack rafters to the ridge beam metal carriers and fasten with an M6 bolt, washer and nut. Place lower end of the jack rafters against side of the valley rafter and make sure that everything aligns. Fasten with screws. To avoid cracks in wood use a factory made pilot holes and drill $\frac{3}{16}$ " holes in advance.



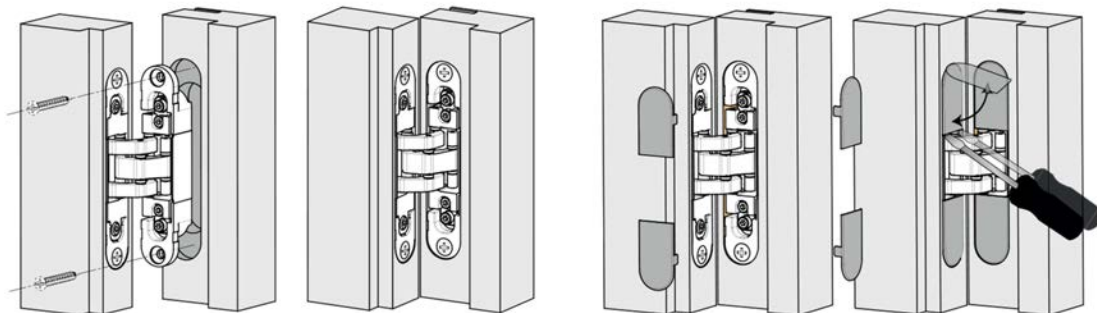
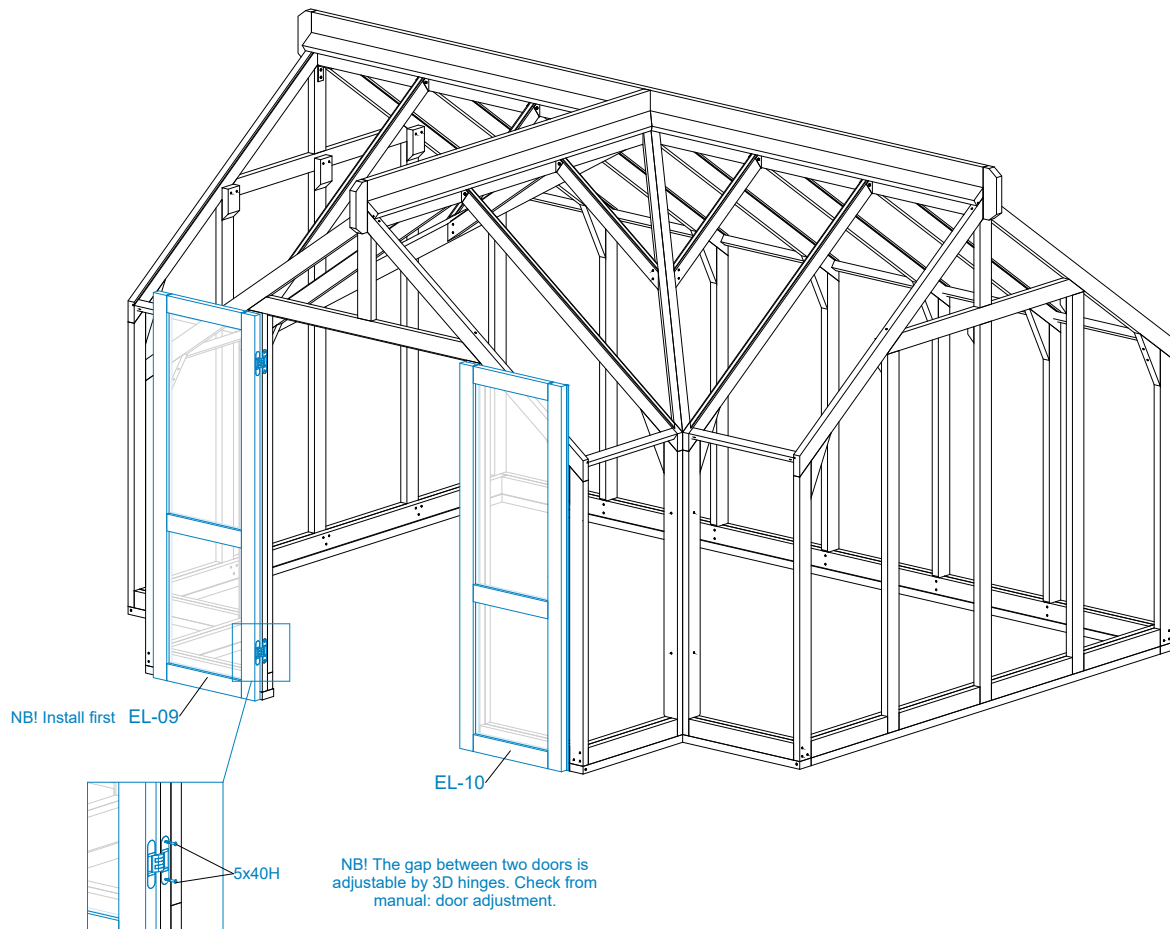
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19. INSTALLATION OF DOOR

Lift the door elements to the intended location and insert hinges to sockets in the posts. Fasten with screws and add caps. For the lower latch on the left door element (EL-09), use a metal counter plate (included) if necessary.



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Make sure that gaps between door elements and frame are equal and door works properly. Make adjustments if necessary.

Side adjustment

Side adjustment is performed on a part of the hinge fixed on the door element with a $\frac{1}{8}$ " hexagonal wrench by adjusting two screws indicated on drawing X.

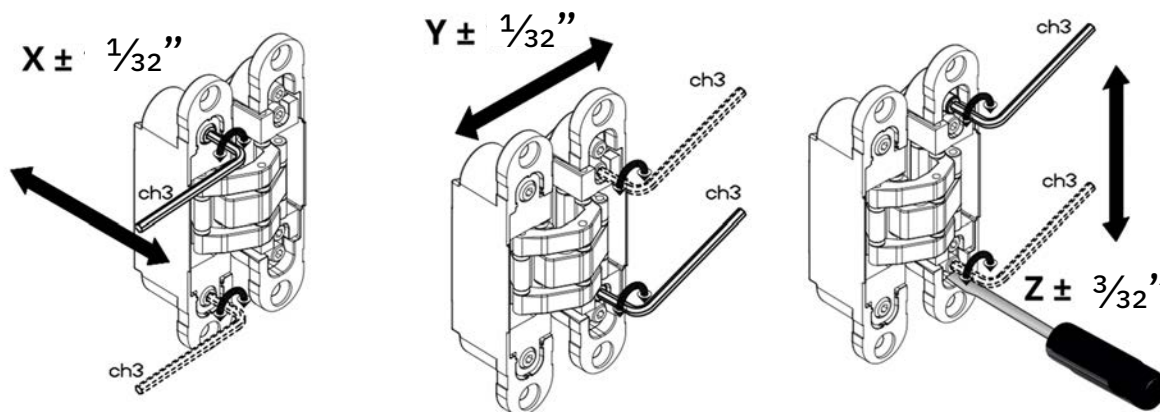
Depth adjustment

Loosen the two screws indicated on drawing Y on a part of the hinge fixed on the door frame with a $\frac{1}{8}$ " hexagonal wrench. Adjust door elements to the requested position and then fasten the screws.

Height adjustment

Loosen the two screws indicated on drawing Z on a part of the hinge fixed on the door frame with a $\frac{1}{8}$ " hexagonal wrench. Lift door elements to the requested position and then fasten the screws.

NB! Use a 5 – 6 Nm strenght when fastening screws!



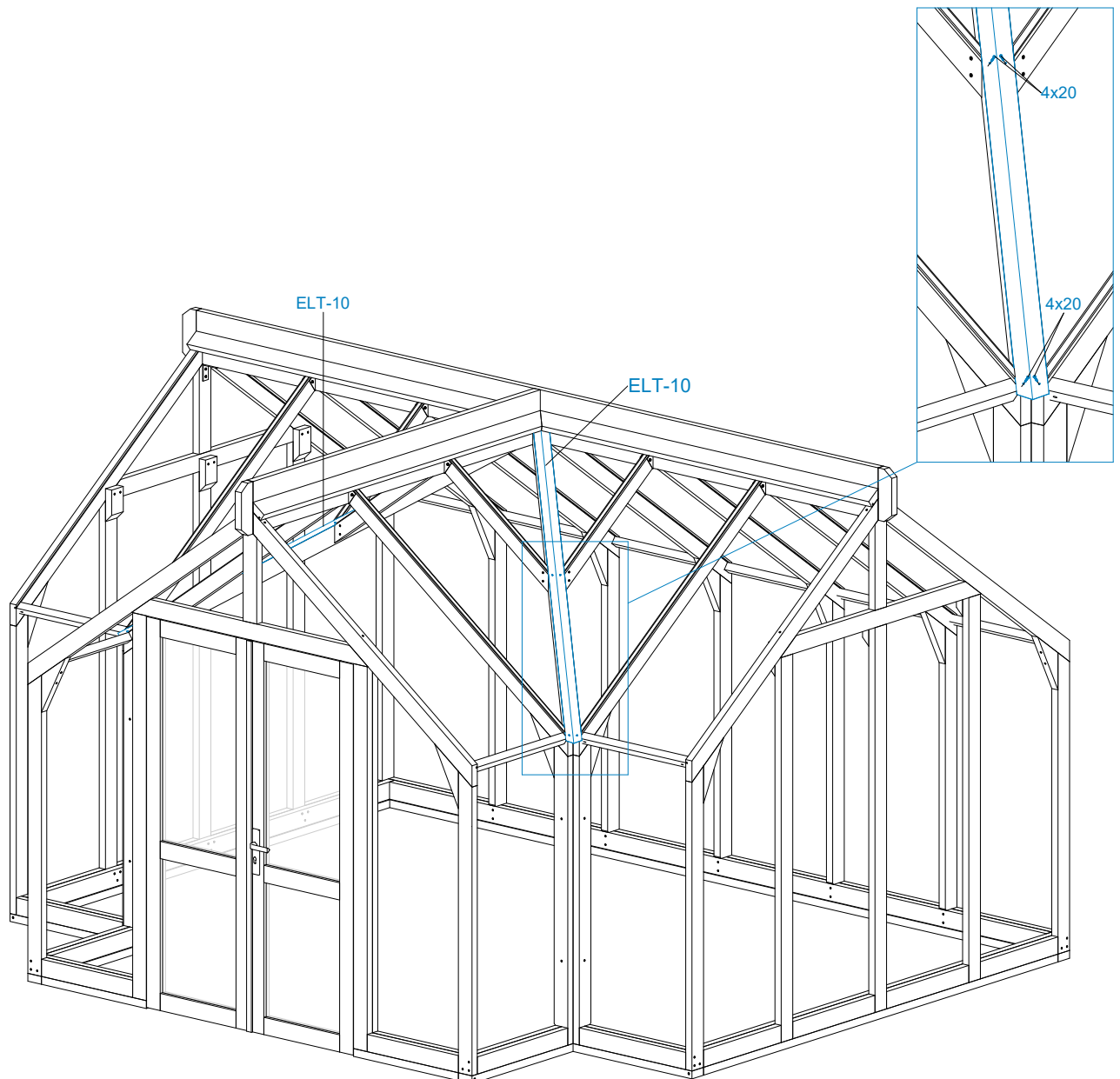
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20. INSTALLATION OF VALLEY RAFTER METAL COVER

Place valley rafter metal cover on top of the valley rafter. Make sure that metal cover is pushed all the way up against ridge beam. Fasten with screws.



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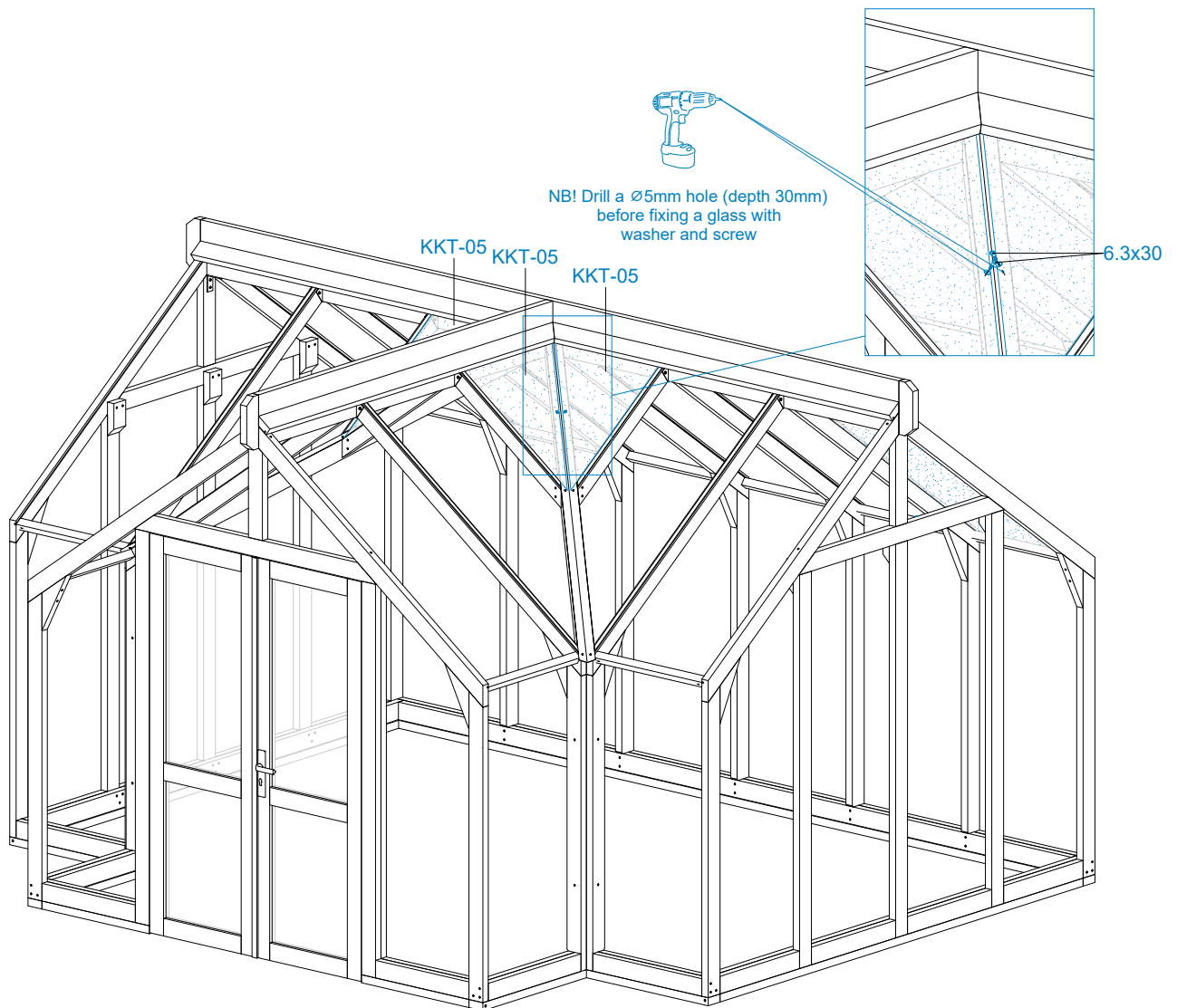
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21. INSTALLATION OF ROOF VALLEY GLASS

Place upper glass to the intended location and fasten with screws. Drill $\frac{3}{16}$ " holes in advance to the valley rafters (depth $1\frac{3}{16}$ "). Fasten glass with a glass screws.

NB! Do not over tighten screws. Tighten it carefully by hand!

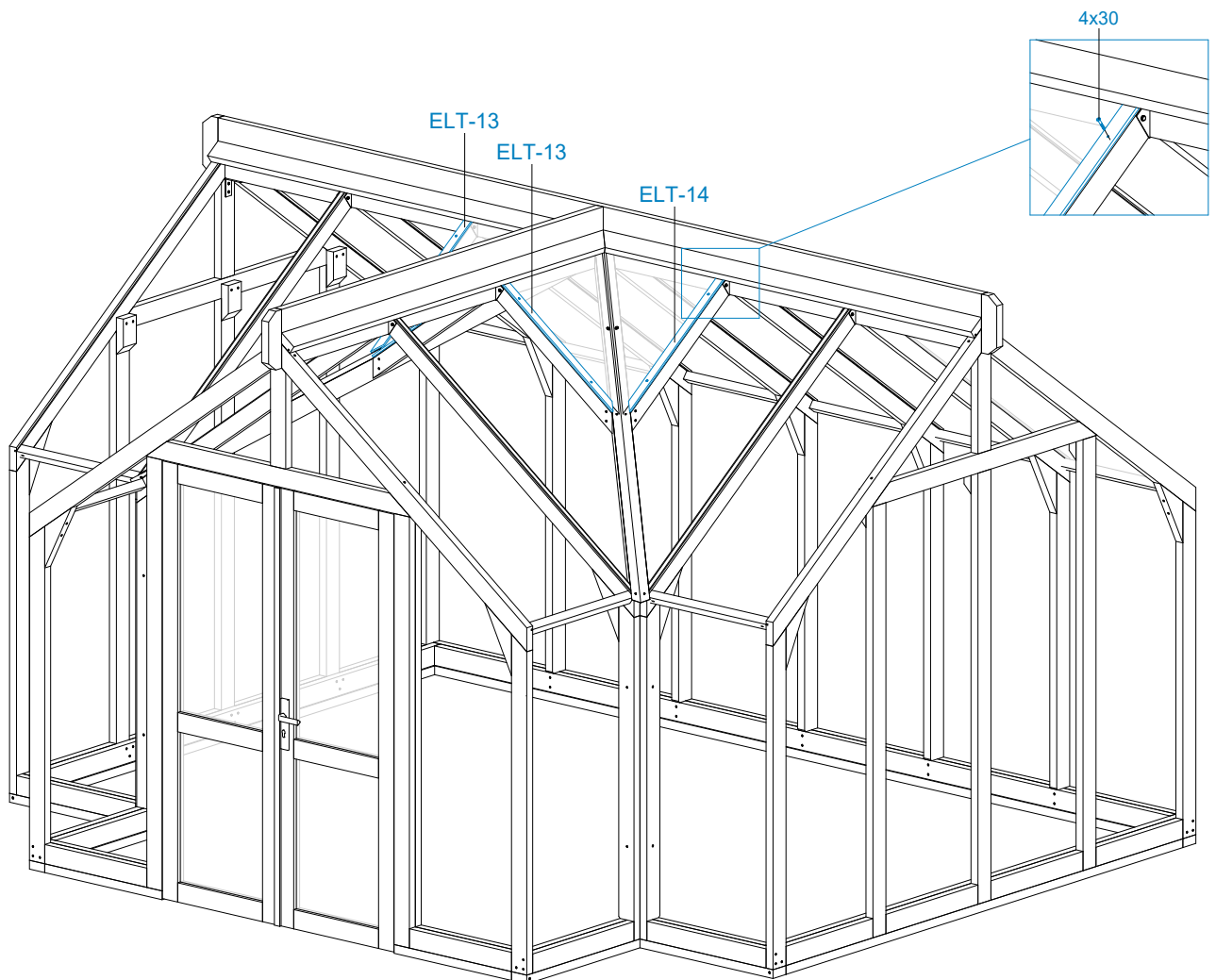


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Place wooden rafter covers to the intended location and fasten with screws. Make sure that wooden cover is evenly on top of the rafter and parallel with rafter edges.



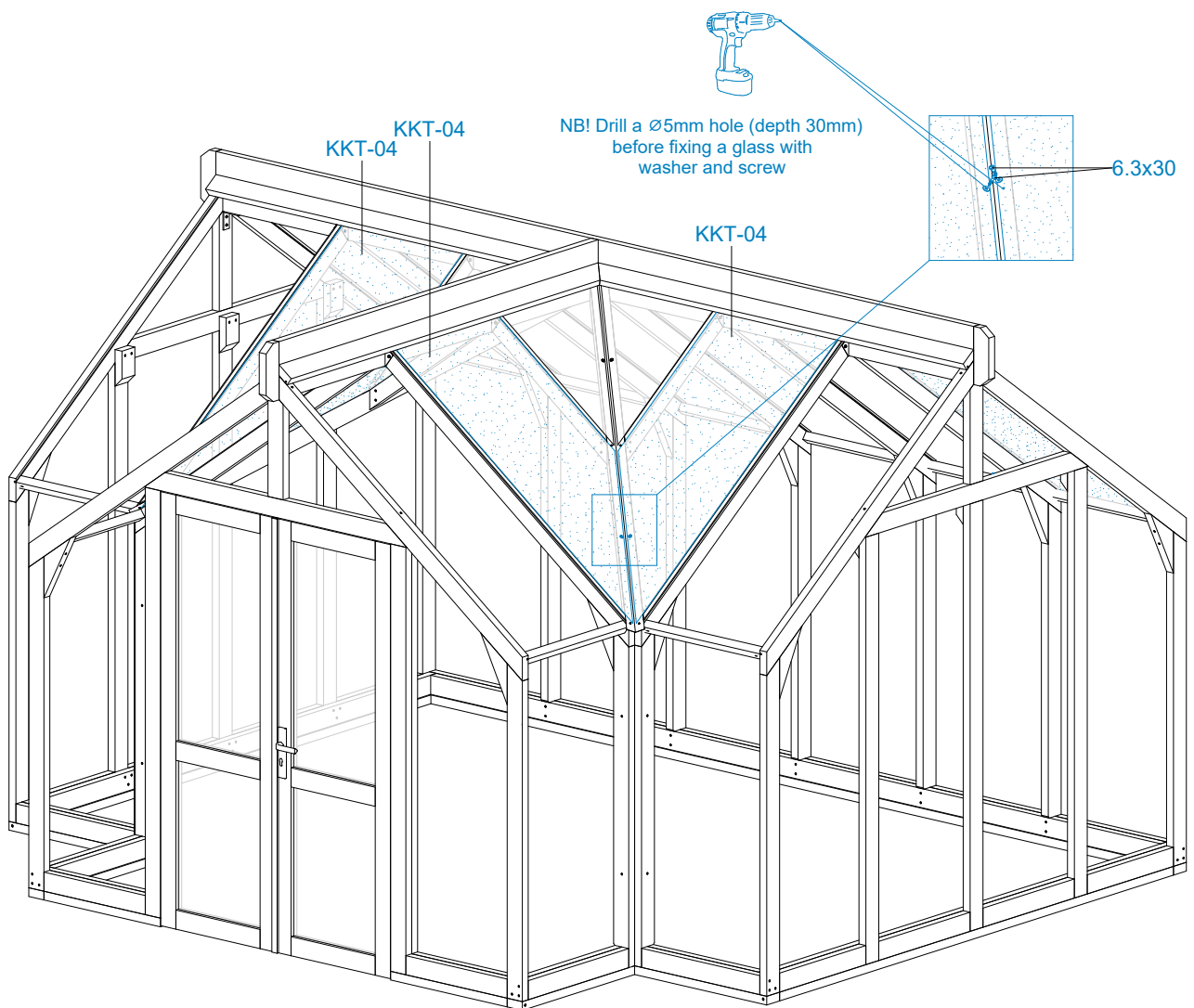
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Place lower glass to the intended location and fasten with screws. Drill $\frac{3}{16}$ " holes in advance to the valley rafters (depth $1\frac{3}{16}$ "). Fasten glass with a glass screws.

NB! Do not over tighten screws. Tighten it carefully by hand!

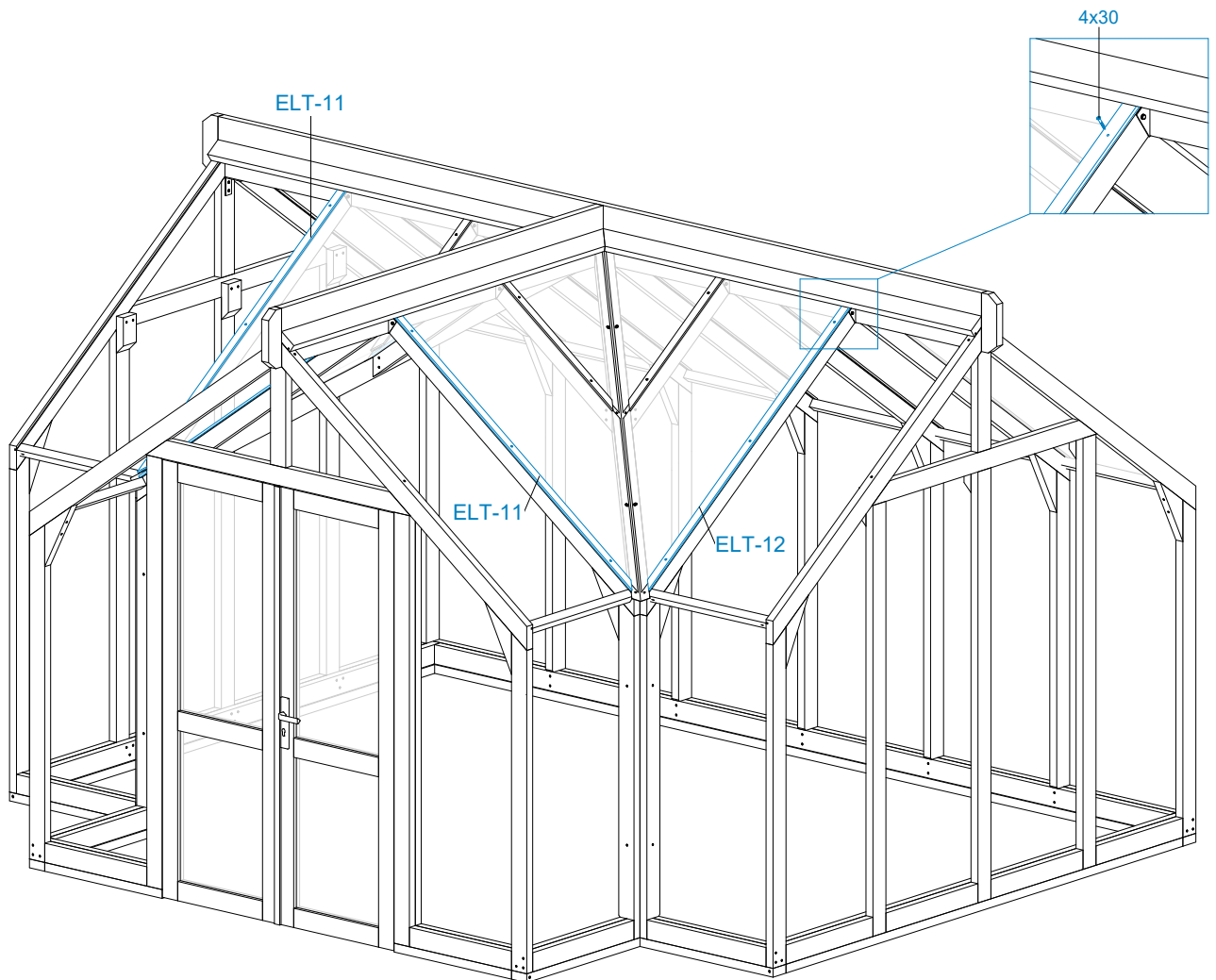


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Place wooden rafter covers to the intended location and fasten with screws. Make sure that wooden cover is evenly on top of the rafter and parallel with rafter edges.



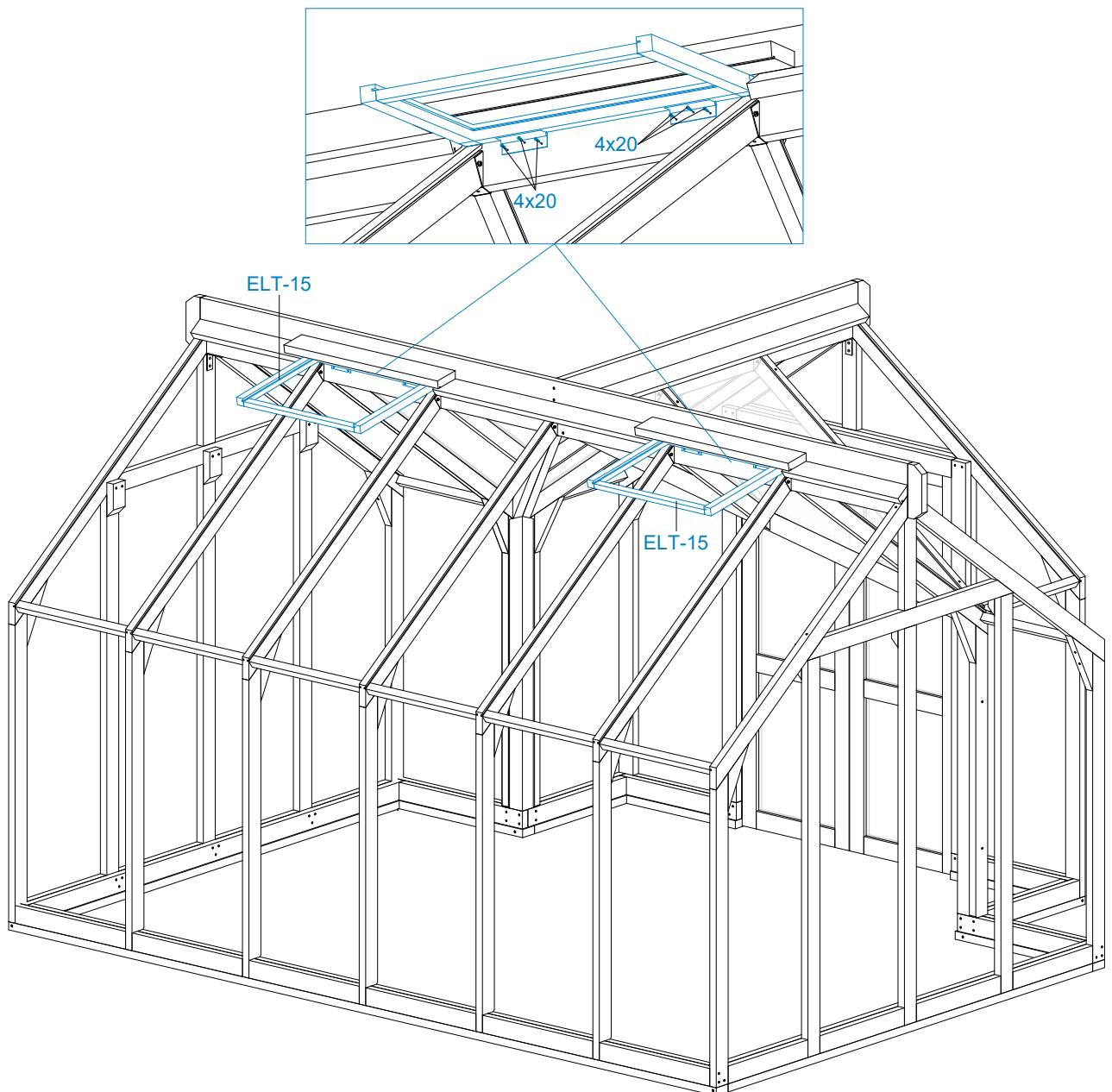
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22. INSTALLATION OF ROOF WINDOWS

Place the roof windows to intended locations on rafters and push against ridge beam. Make sure roof windows are equally spaced on rafters. Hinges are attached to the roof windows frames. Fasten to ridge beam with screws.



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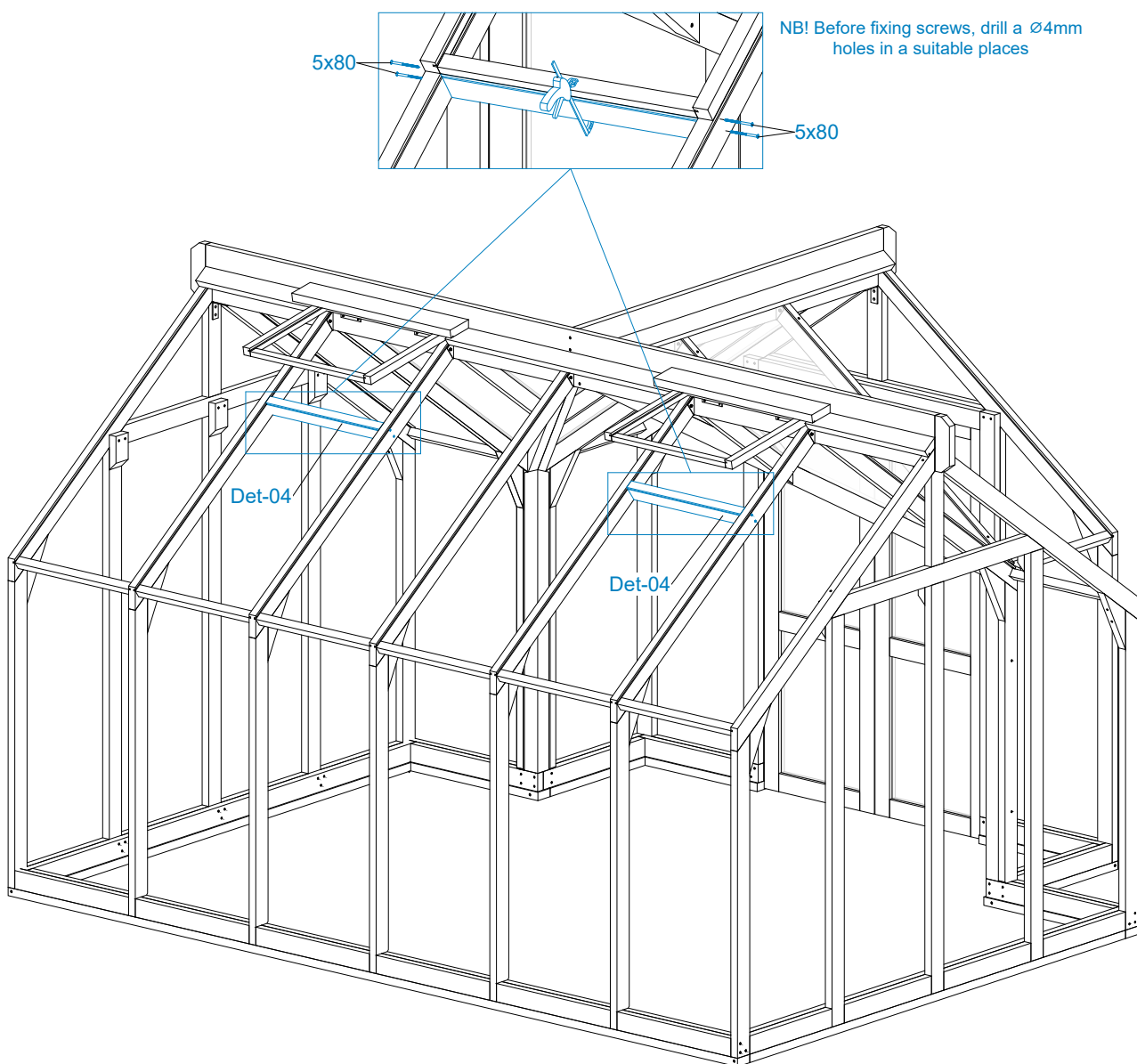
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23. INSTALLATION OF ROOF WINDOW MIDDLE DETAILS

Place the grooved middle details under roof windows lower edge. Make sure that middle detail groove lines with rafters grooves. Fasten with screws. To avoid cracks in wood drill $\frac{5}{32}$ " holes in advance.

NB! To make installation of the roof window middle detail easier, we recommend attaching it to the roof window with a clamping screw.



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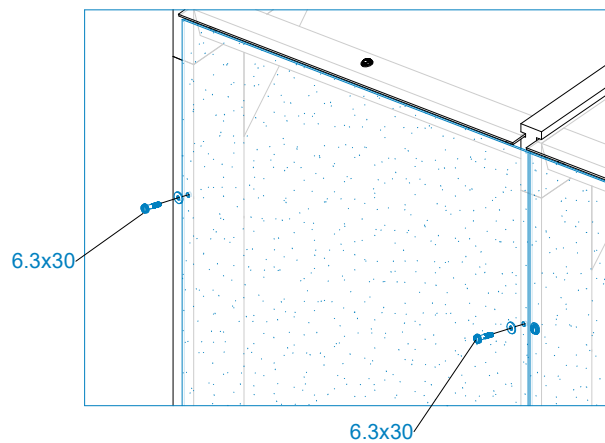
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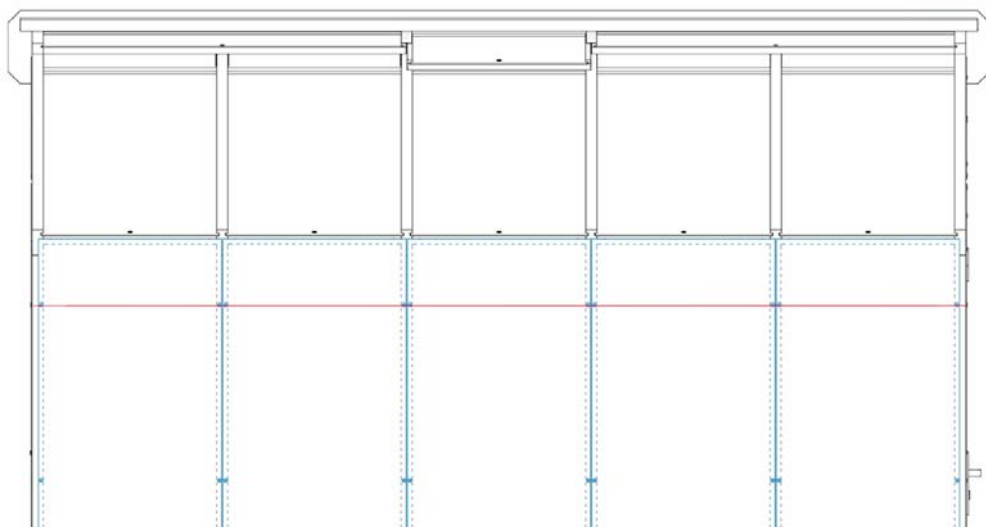
24. INSTALLATION OF GLASS

Make sure that you are well prepared and have necessary tools available. It is recommended to have at least two persons for glass installation and always use suction cups to lift glass safely. Make sure in advance that all posts are vertically level before installation of glass. If necessary, add a temporary supports for greenhouse frame.

Glass is installed on the outer surface of the wooden frame and fastened with glass screws. **Holes must be drilled in advance and PVC washer must be between the glass and the screw head.** If you use cordless drill then it is recommended to set the drill to the lowest speed and strength. Turn the last part always by hand so that PVC washer retains its shape and original thickness. **NB! Tightening the screw too hard will break the glass. Broken glass is not subject to warranty replacement!**



Placing glass to correct position on frame will be done on site by installer. For a best result it is important to check that glass is correctly positioned, gaps are equal and screws line up. We recommend using laser leveling tool or similar device for aligning screwheads.



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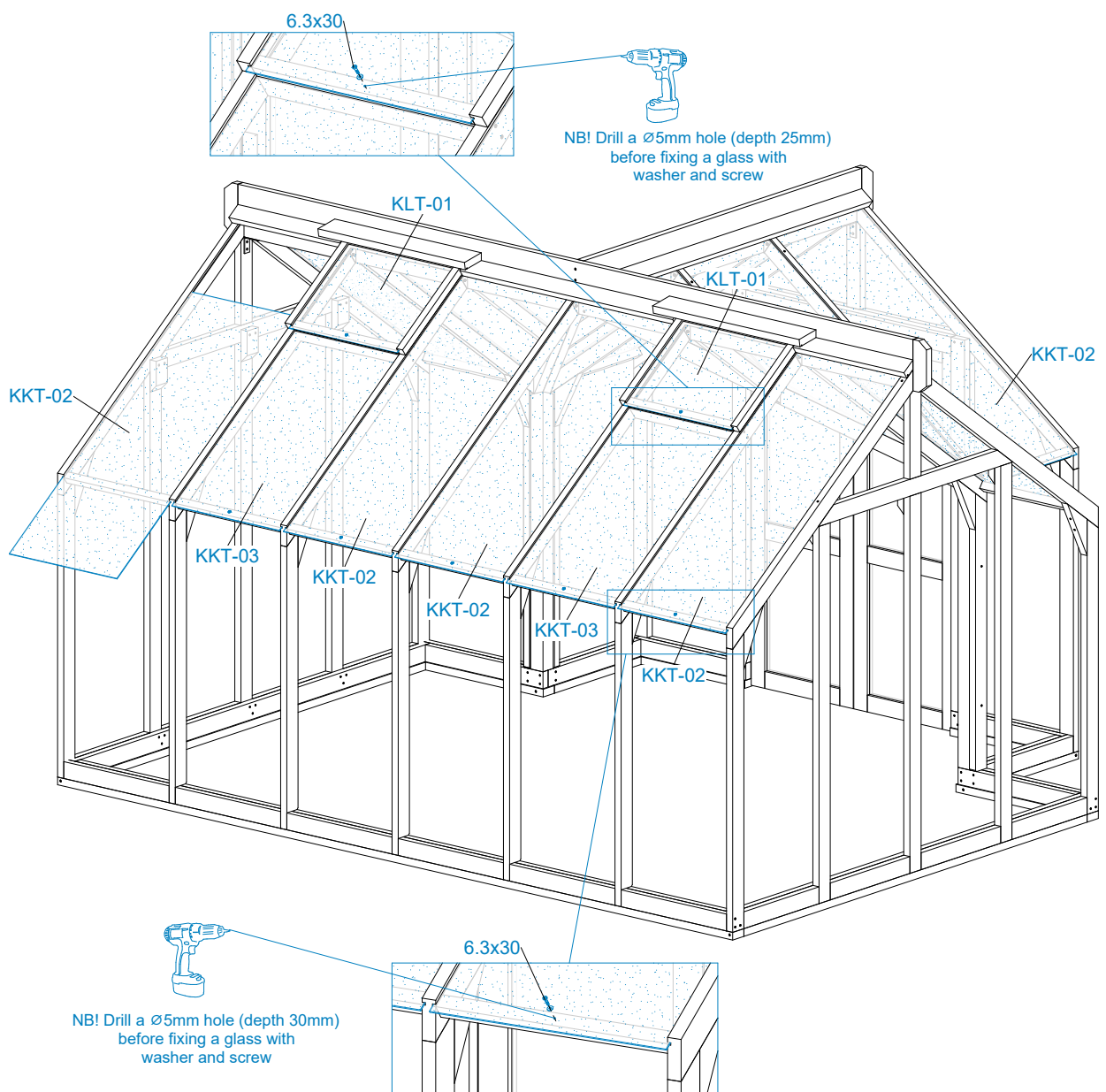
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24.1. INSTALLATION OF ROOF GLASS

Start from roof windows glass and then proceed with roof glass. Carefully place the end of the glass to grooves and push it all the way up to the end. Avoid using force - glass should slide in smoothly. Make sure that the glass is evenly grooved. Drill 5 mm hole in advance to the rafter middle detail (depth $1\frac{3}{16}$ ") and roof window lower frame (depth $\frac{63}{64}$ "). Fasten glass with a glass screws.

NB! Align glass along the bottom edge. Do not over tighten screws. Tighten it carefully by hand!



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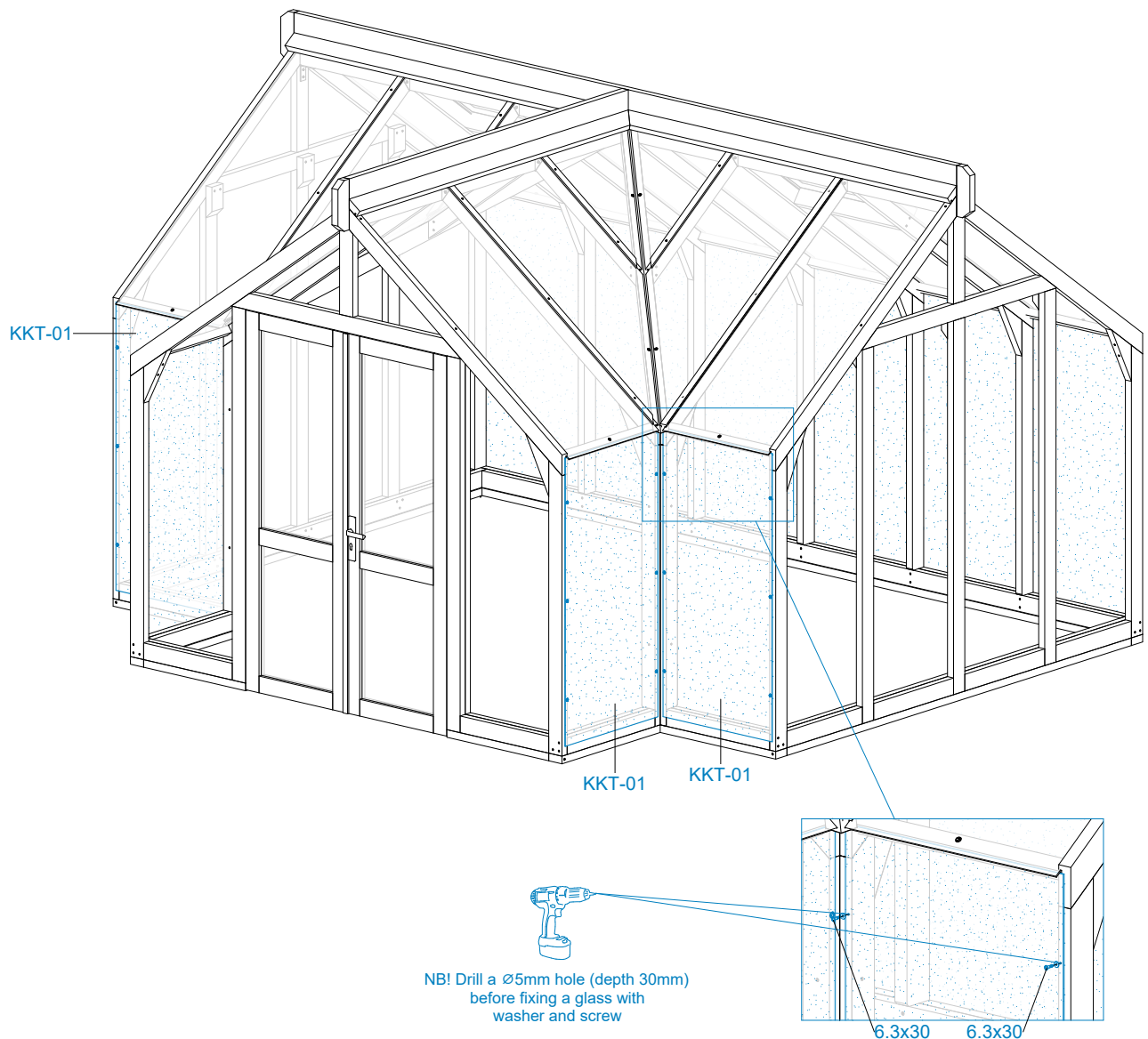


24.2. INSTALLATION OF SIDE WALL GLASS

Place side wall glass on a greenhouse wooden frame using glass lifting suction cups. Put the upper end of the side glass under the edge of the roof glass. Lower edge of the side glass should be $1\frac{21}{32}$ " below top of the base frame. Hold the glass in place and drill $\frac{3}{16}$ " holes in advance with a depth of $1\frac{3}{16}$ ". Fasten the glass with a glass screws.

NB! Do not over tighten screws. Tighten it carefully by hand!

NB! Before fastening the glass, make sure that the glass is correctly positioned, is not skewed and aligns with the other glass!



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NB! Align glass along the bottom edge and screw heads!



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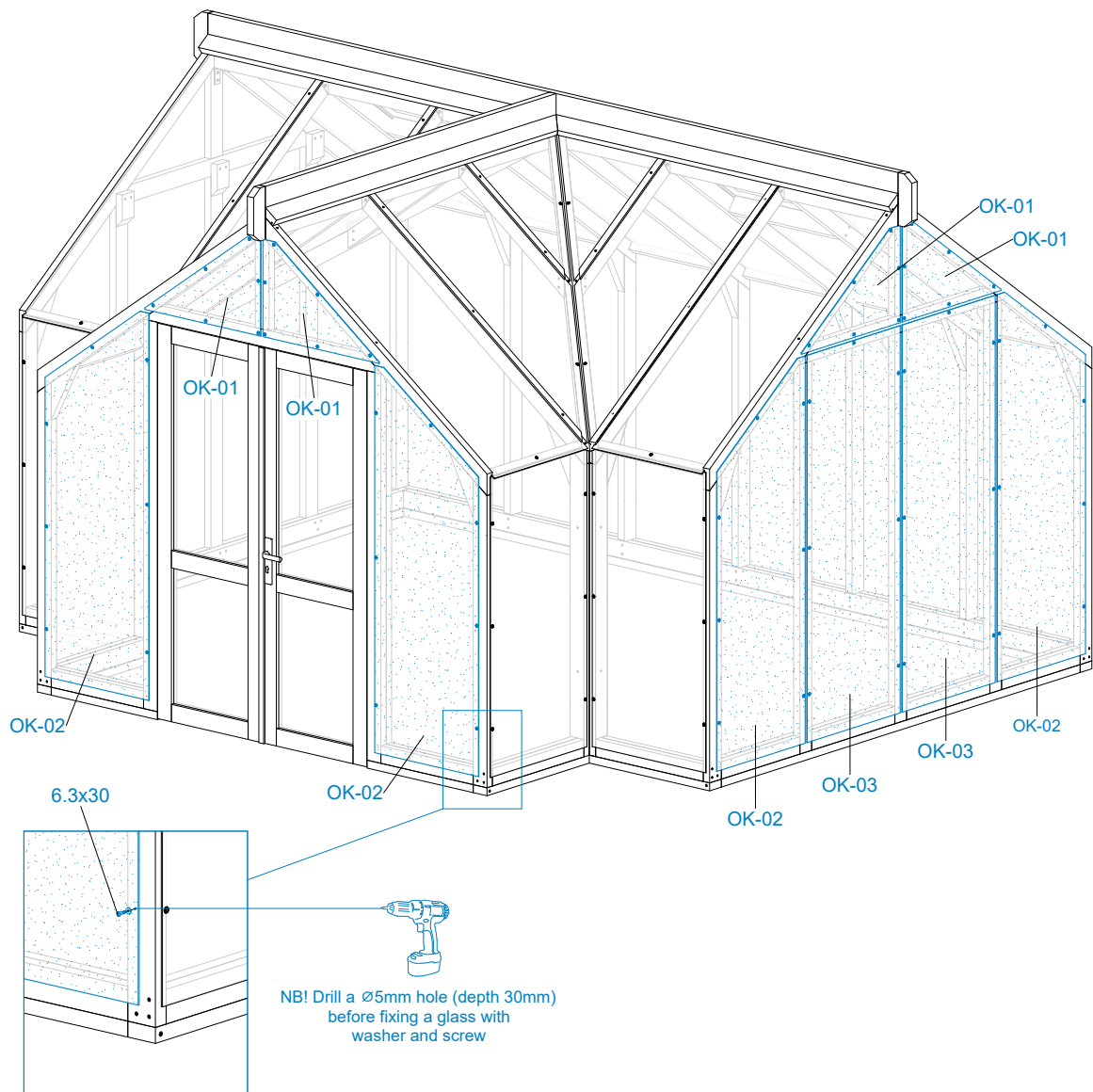


24.3. INSTALLATION OF END WALLS GLASS

Place the glass in the intended location on frame using glass lifting suction cups. Lower edge of the glass should be $1\frac{21}{32}$ " below top of the base frame. Hold the glass in place and drill $\frac{3}{16}$ " holes in advance with a depth of $1\frac{3}{16}$ ". Fasten the glass with a glass screws.

NB! Do not over tighten screws. Tighten it carefully by hand!

NB! Before fastening the glass, make sure that the glass is correctly positioned, is not skewed and aligns with the other glass!

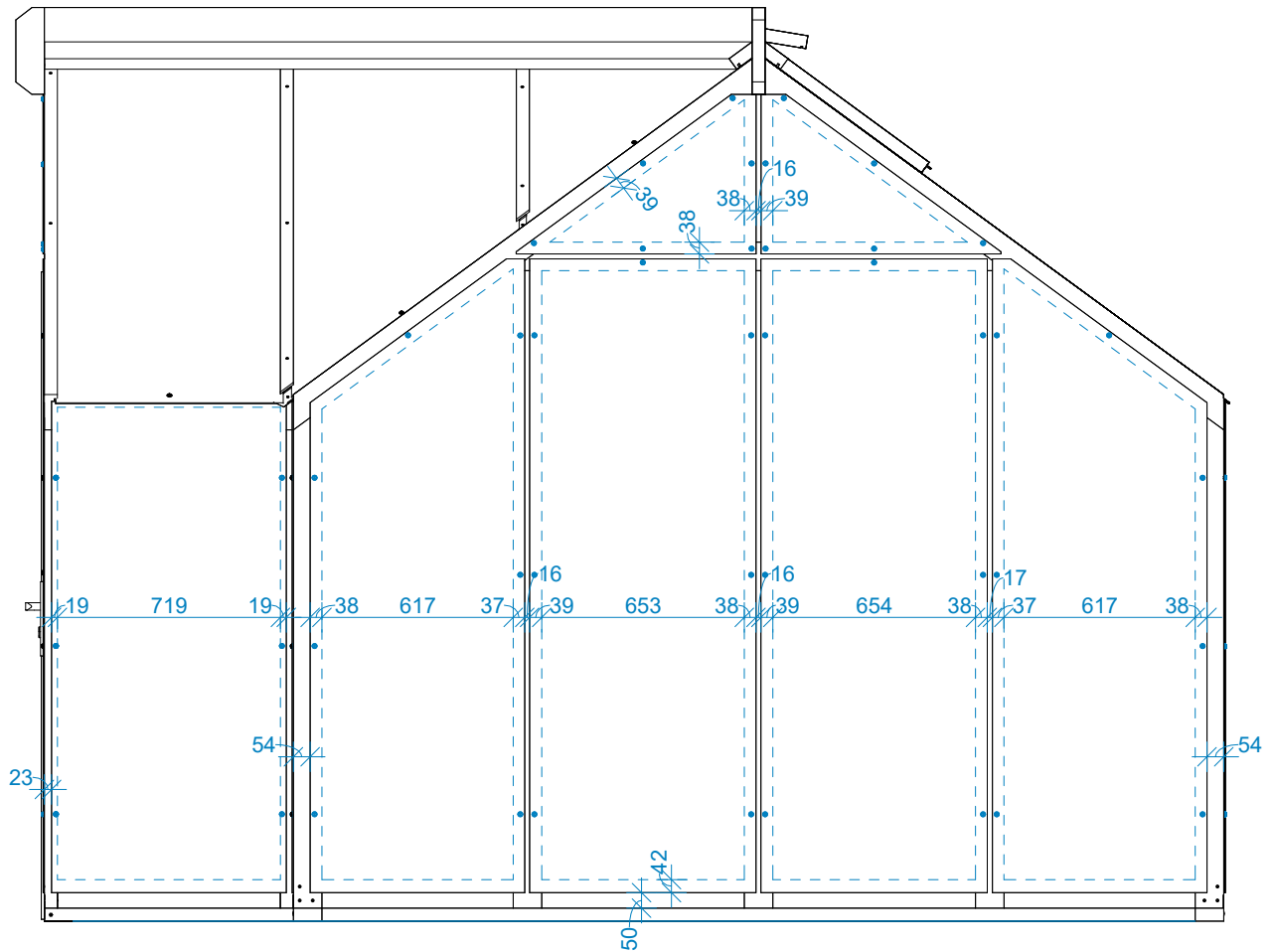


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NB! Before installing the end wall glass, make sure that the door posts are vertically level and that the gap between them is exactly 4' 7 $\frac{1}{8}$ " from top and bottom!



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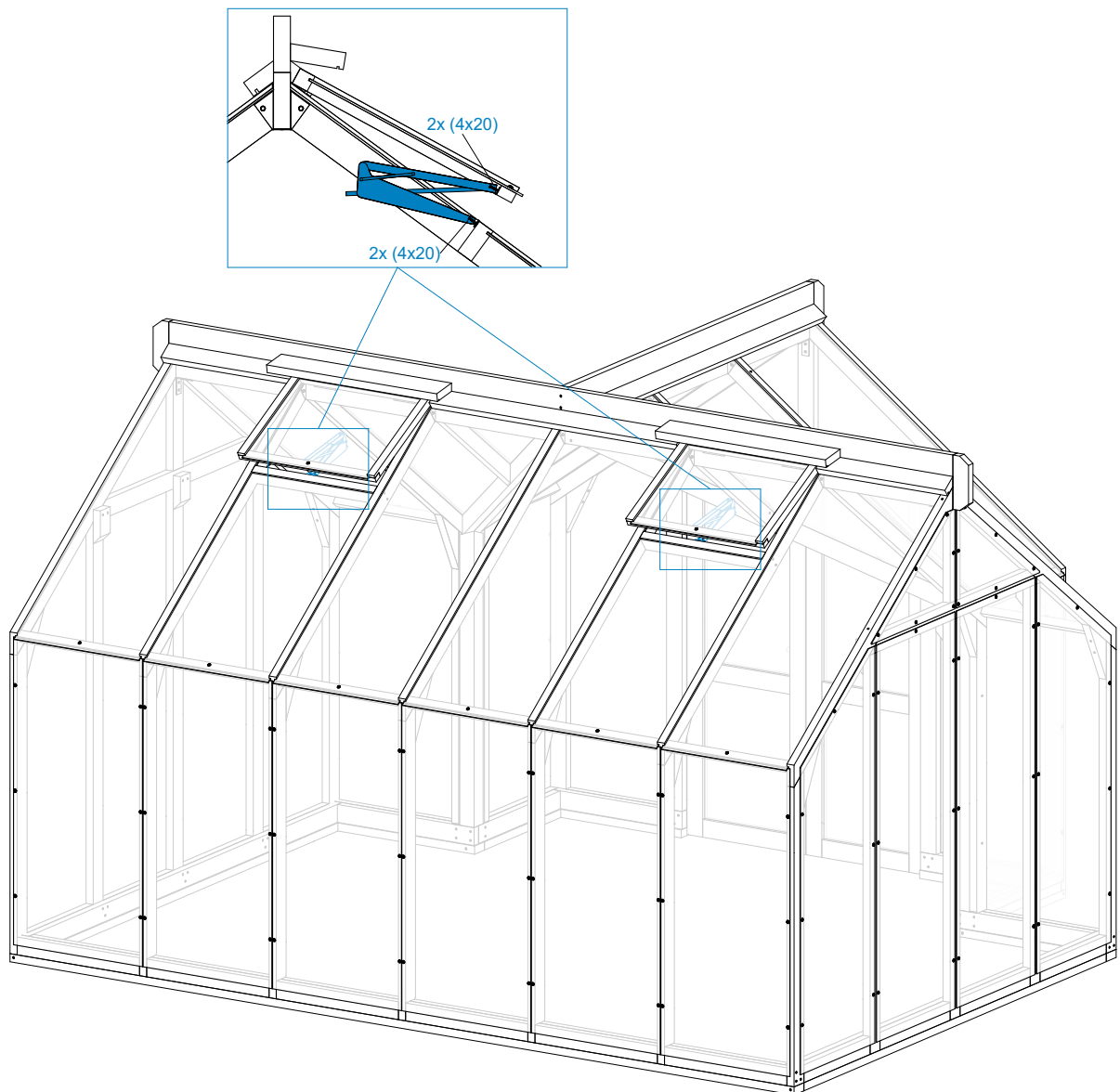
25. INSTALLATION OF ROOF WINDOW OPENERS

Greenhouse kit includes automatic roof window openers Bayliss Autovents mk7 triple spring. Roof window openers are in manufacturer original package.

Install the roof window automatic openers according to the manufacturer instructions.

NB! Use a 4x20 stainless steel wood screws as these fit better than the ones provided from manufacturer and will not rust.

NB! Drill a hole in advance with a thin ($\frac{3}{32}$ ") wood drill to prevent cracks!



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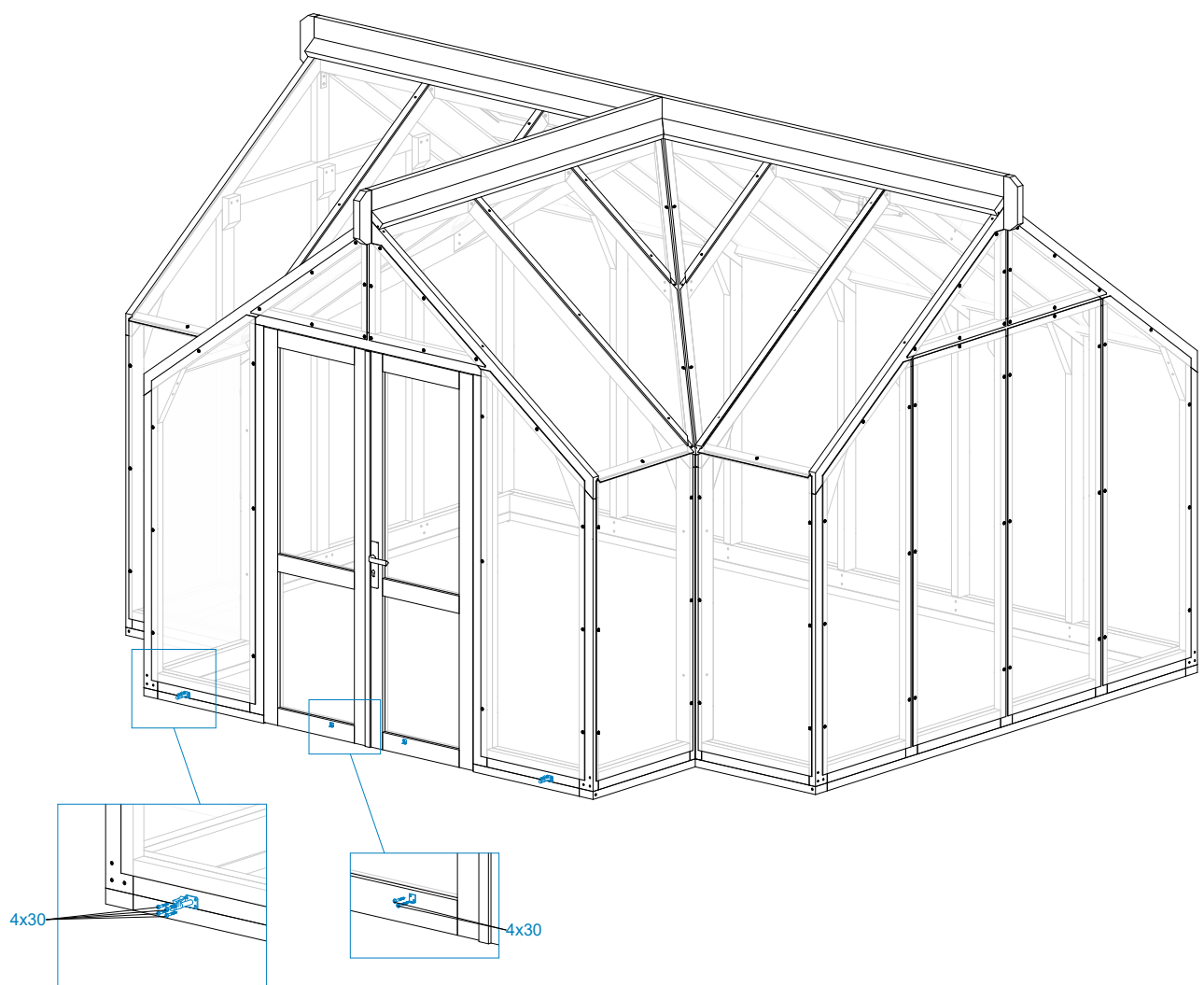


26. INSTALLATION OF DOORSTOPS

Greenhouse kit includes stainless steel door stops. Place door stops to suitable position and fasten with screws.

NB! Make sure that door stop for right side door element (EL-10) is placed in a position that prevents door handle collide with glass.

NB! Drill a hole in advance with a thin ($\frac{3}{32}$ ") wood drill to prevent cracks!



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