

# **STOP!!**

## **READ BEFORE STARTING INSTALLATION.**

### ***OPENING THE PACKAGE***

1. Most goods are packed in wooden boxes. **DO NOT** use sharp tools to poke or cut the box, to avoid damaging the items inside.
2. For glass products, check the labels on the wooden box. **DO NOT** open the box from the side close to the glass to avoid breaking it.
3. For bubble wrap or similar packaging, **DO NOT** cut it directly with knives to avoid scratching the product surface.

### ***STORAGE & MOVING***

1. Only open the parts that need to be installed. Keep other parts in their packaging until needed, to avoid surface damage.
2. Glass is **FRAGILE**. When taking it out of the box, avoid hitting the corners or edges.
3. **DO NOT** lay glass flat on the floor. Always store it standing upright. Put wooden strips or boards under the bottom. **DO NOT** place glass directly on a concrete floor. Protect the edges and corners to avoid damage.
4. For wooden treads or similar products, place soft materials like bubble wrap between each piece to prevent scratches.
5. After opening the packaging, place soft materials such as bubble wrap, foam pads, or soft wooden boards under the items. **DO NOT** place items directly on rough concrete surfaces.
6. The inner packaging is mostly bubble wrap or film, which cannot support dragging. When moving goods, lift them up. **DO NOT drag them on the ground to avoid damage.**
7. Glass is heavy. When moving it, protect the **corners and edges** to avoid breakage and injury.
8. After opening the package, keep all screws and accessories in one place to prevent loss.

### ***BEFORE INSTALLATION***

1. The staircase is made based on the confirmed drawings. During production, the site measurements may have changed. Before installation, check if the site measurements match the drawings. If there are changes, adjust the installation position accordingly. If the change is too big and installation is not possible, please contact us for advice.
2. If the site measurements are correct and there are no major differences, follow the steps below to install the staircase.

### ***DURING INSTALLATION***

1. The steel structure parts such as the stringer already have surface coating. Avoid scratches during installation, as this will damage the paint. Spray paint cannot be shipped due to transport rules. If scratches happen, please repair the paint yourself.
2. Wooden treads and wooden handrails have been painted. Please use protection on the surface during installation to avoid dents or scratches caused by falling tools or heavy objects. If the paint is damaged, please repair it yourself. You can contact us for repair guidance.
3. If there is a glass railing, do not place the glass directly on the wooden treads to avoid damaging the wood surface.
4. Each screw has a specific position. Please do not use the wrong screw, as this may reduce strength and create safety risks.

### ***AFTER INSTALLATION***

1. Clean the surface of the products in time to avoid dirt or debris causing damage.

## SCREW & BOLT LIST

M10 COUNTERSUNK WOOD SCREW.

- Fix Top Stringer Plate & Bottom Stringer Plate



M12 \* 25 HEX HEAD SCREW.

- Fix Stringer Together w/ black



M10 EXPANSION BOLT + NUT.

-Fix stringer to back wall



M12 \* 55 BLACK HEX SOCKET SCREW.

- Fix steel tread support to stringer



M5\*35 HEX WOOD SCREW.

-Fix wood tread to steel support.



## GENERAL RULES

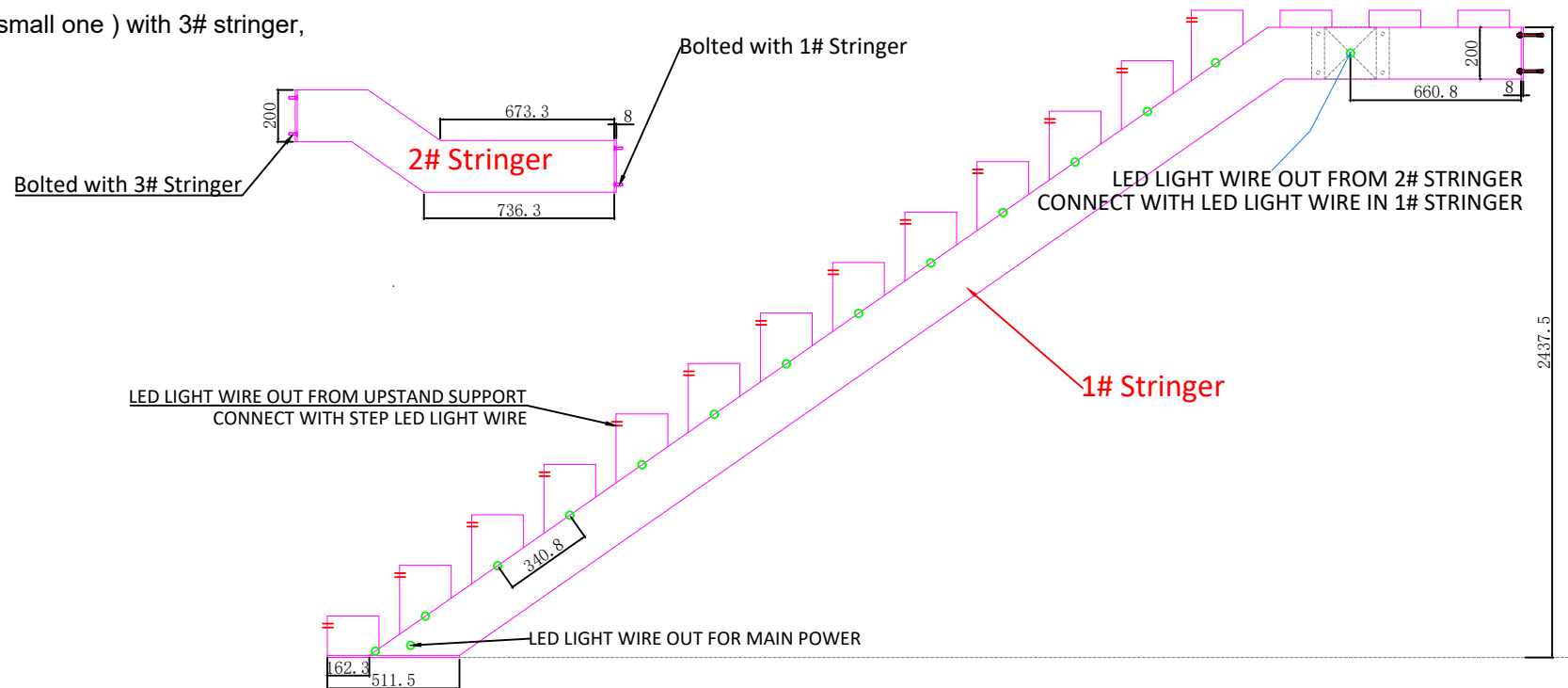
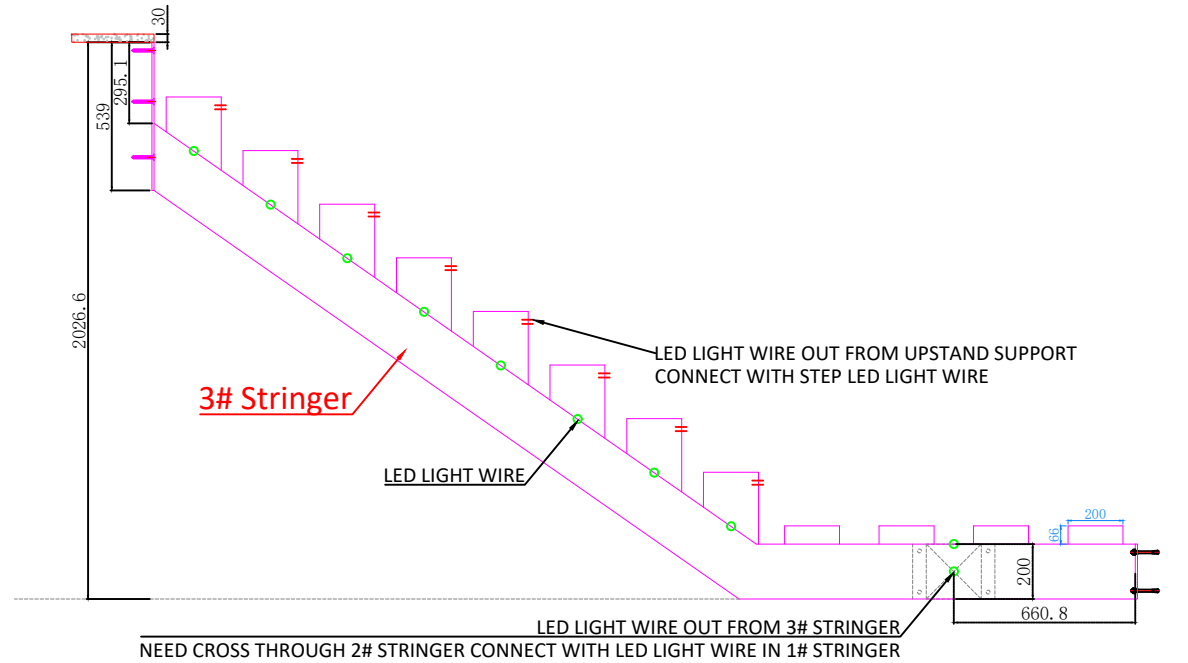
Re-check all stair opening measurements before installation. Confirm they match the approved drawings.

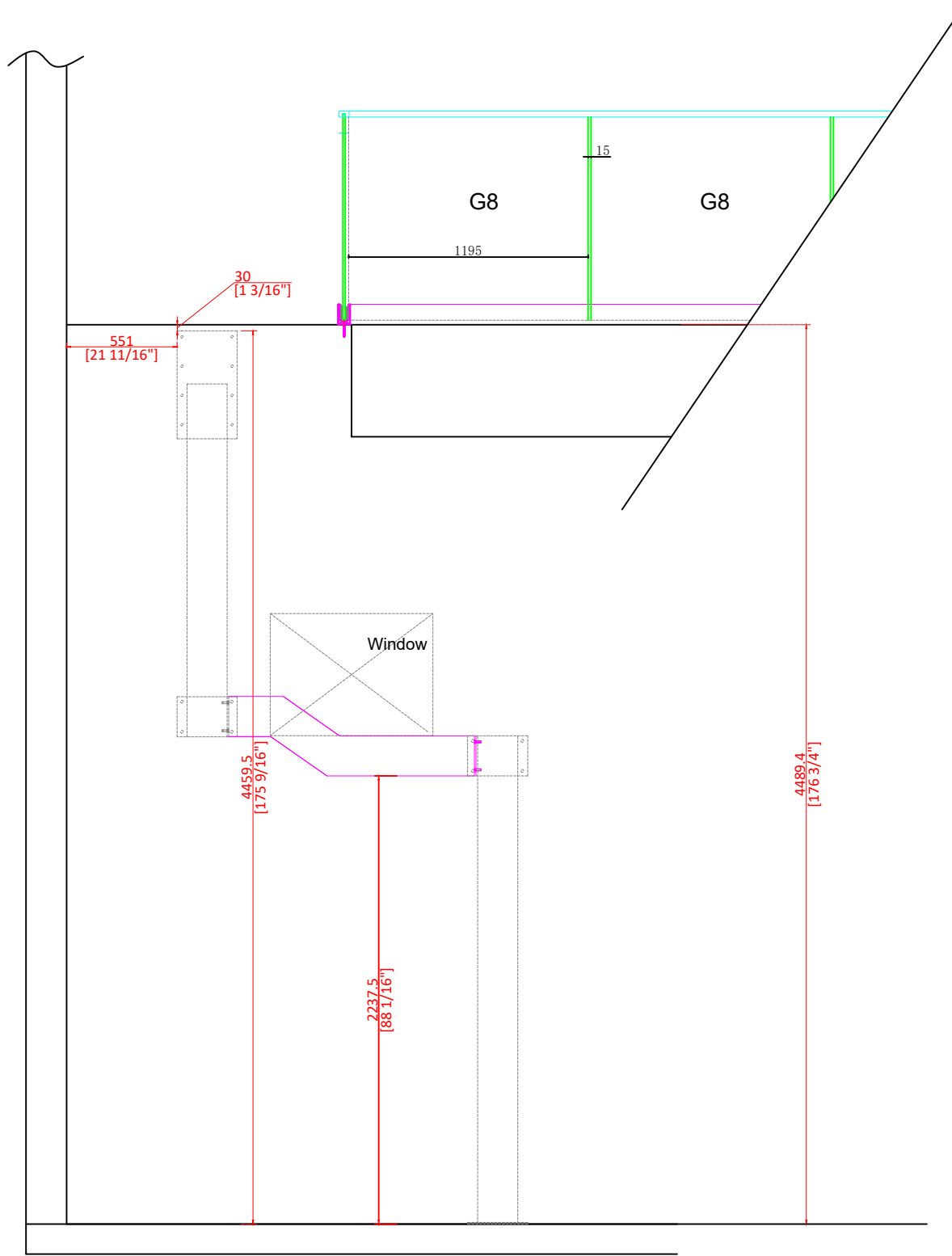
Do not fully tighten all screws at once. Leave adjustment space and tighten everything only after the full installation is confirmed correct.

### 1. POSITIONING THE STRINGER

**NOTE:** The stringer contains the LED wiring.

- 1#. Staircase Height : **4489.4mm ( 176 3/4" )**
- 2#. Top fixed plate height : **4459. 4mm (175 9/16" )** w/ 30mm distance to the upper floor
- 2#. Distance from top fixed plate edge to wall: **551 mm (21 11/16")**
- 3#. After confirming the top flight stringer position, fix the stringer. Tighten 2 bottom screws first, then recheck alignment. If everything is correct, fix the top plate with bolts ;
- 4# Then bolted the 2# stringer ( middle small one ) with 3# stringer, Step by step same as top flight stringer.





## 2. FIX THE STEEL TREAD SUPPORT

1#.

20 pcs with 2 screw holes (Steps 1-12 & 14-22)

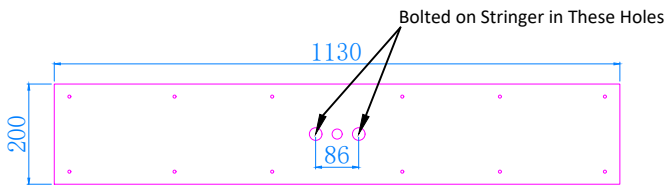
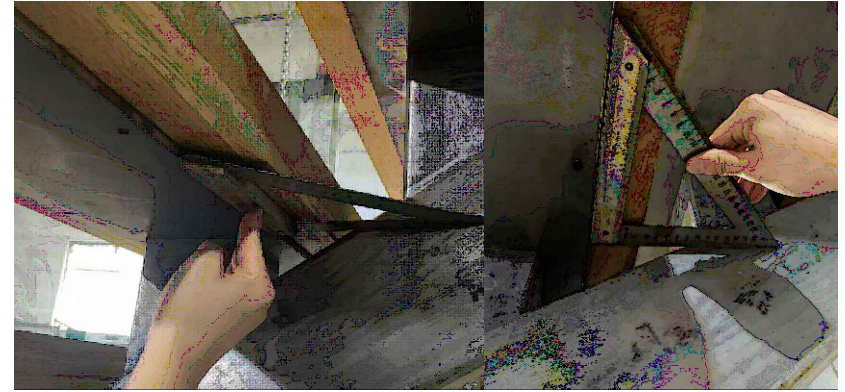
4 pcs with 2 screw holes ( Landing 13rd )

4 pcs with 2 screw holes ( Landing 14th )

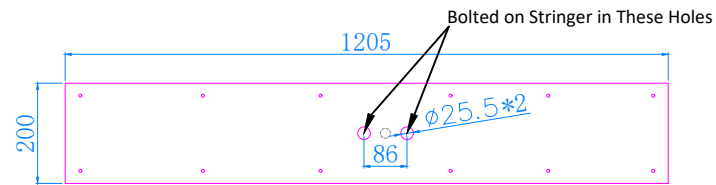
2#. Fix the support using hexagon socket screws.

Level the support by slightly loosening screws if needed.

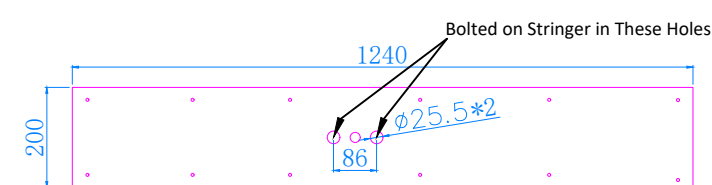
Use a set square to ensure the support is perpendicular to the stringer, then tighten.



STEEL TREAD SUPPORT  
20 PCS  
FOR 1ST - 12ND & 14TH - 22ND TREADS



STEEL TREAD SUPPORT  
4 PCS  
FOR 13RD LANDING



STEEL TREAD SUPPORT  
4 PCS  
FOR 14TH LANDING

## 3. TEST LED LIGHT

LED LIGHT CONNECTING IS VERY IMPORTANT. PLEASE ASK YOUR ELECTRICIAN TO STUDY ANOTHER INSTRUCTION TO SEE HOW TO CONNECT THE LED LIGHT AND THE TRANSFORMER AND THE SENSOR.

1#. There are 2 types of tread in total. 2 landings + 20 steps. LED lights are pre-installed in the treads.

2#. Connect the tread LED wire to the stringer wire.

Place treads on steel supports without fixing screws or only with 1pcs screw.

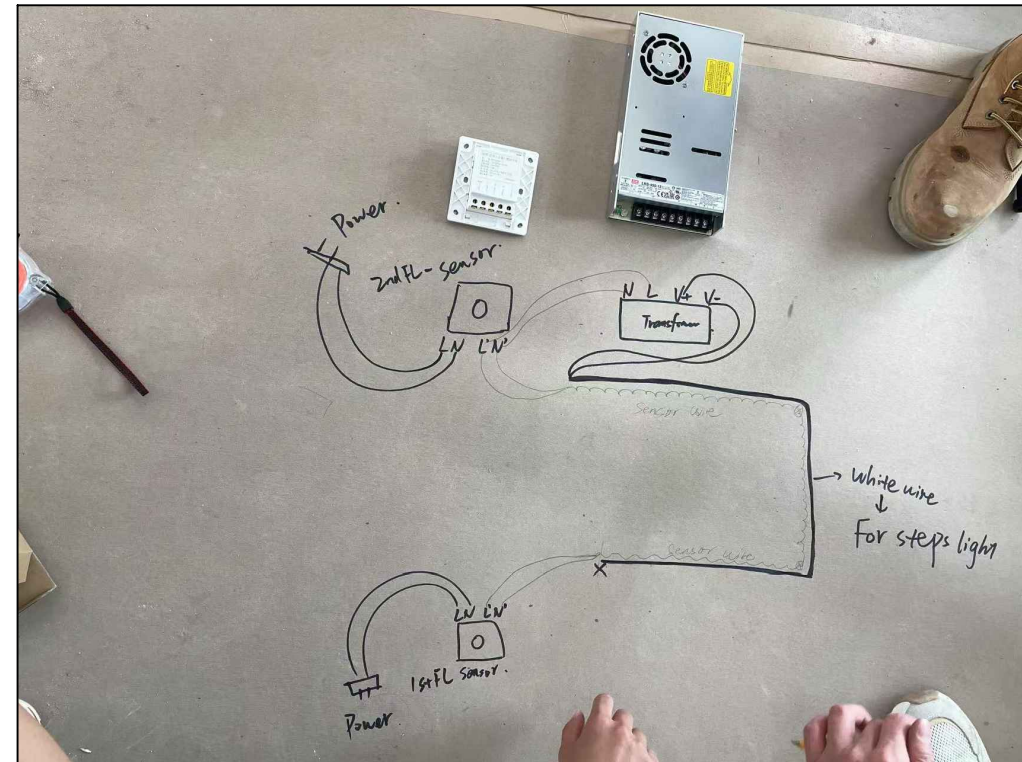
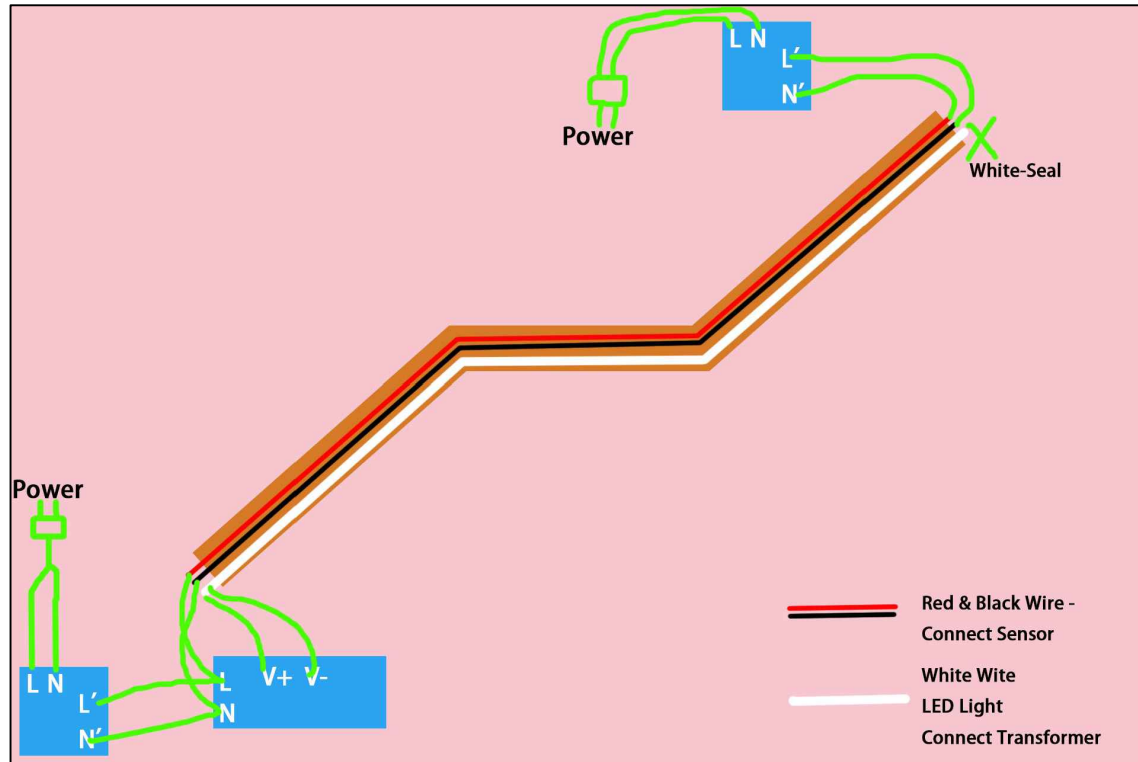
Connect the transformer to the LED wires , then with the sensor and to main power. ( Kindly see the below pictures I've attached )

Power on and test all LEDs.

**NOTE:DO NOT connect LEDs directly to mains power. LEDs must be connected through a transformer, or they will burn out.**

### 3.1. INDUCTION LED LIGHT CONNECTION

**NOTE: LED LIGHT WIRE FOR THE STEP AND FOR SENSOR ARE SEPARATED;**



## 4. INSTALL THE WOODEN TREAD

(There are 4 types Steps in a minor different size w/ 2pcs Landing )

1#. Turn off power after LED testing. Place the tread onto the steel support. **The treads side with pre-drilled railing holes, bottom flight in double sides and top flight in single side.**

2#. Use a set square to align tread edges with the stringer.

3#. Fix the tread with screws.

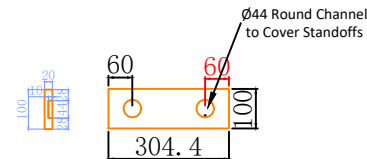
Pre-drilled channels are provided underneath for LED wires.

Place LED wires inside the channels.

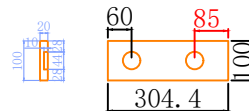
**NOTE: DO NOT press wires under the tread, to avoid damage.**

### 4.1 Standoff - Wood Covers List

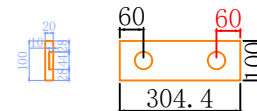
(w/ Diameter 44mm x 10mm Depth Round Holes )



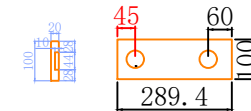
Wood Covers For Standoff  
For 1st - 11st Steps  
QTY : 22PCS



Wood Cover For Standoff  
For 12nd Step  
QTY : 1PCS

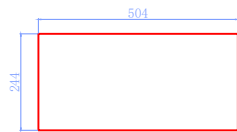


Wood Cover For Standoff  
For 15th - 21st Steps  
QTY : 7PCS

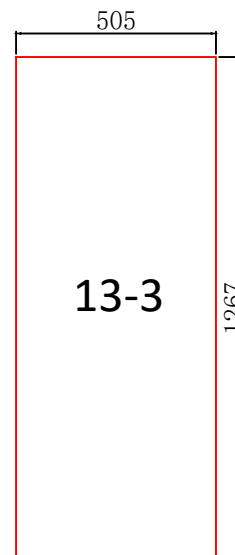
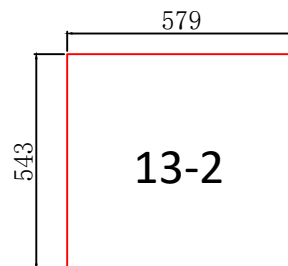
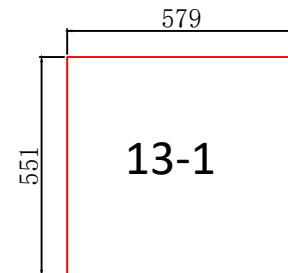


Wood Covers For Standoff  
For 22nd Step  
QTY : 1PCS

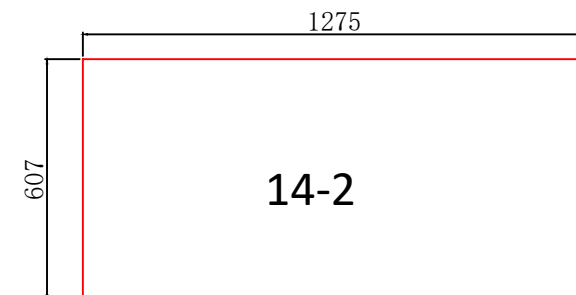
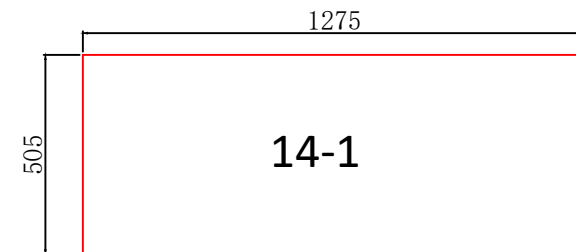
### 4.2 Box Step Bottom Sealing Panels List



Box Step Bottom Sealing Panels  
For 1st - 12nd & 15th - 22nd Steps  
QTY : 40PCS  
EACH STEP W/2PCS

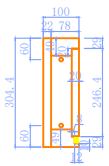


Box Step Bottom Sealing Panels  
For 13rd Landing  
TOTAL 3PCS IN DIFFERENT SIZE

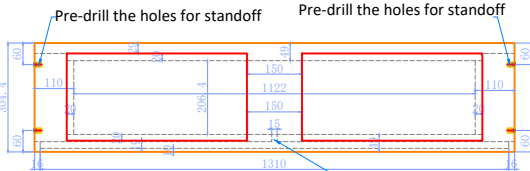


Box Step Bottom Sealing Panels  
For 14th Landing  
TOTAL 2PCS IN DIFFERENT SIZE

### 4.3 Box Step Details List

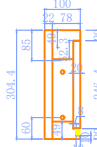


1st - 11st Steps  
Side View

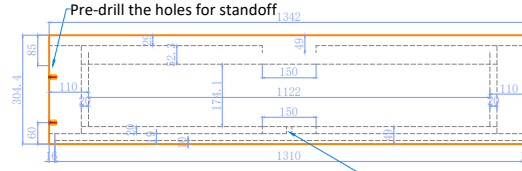


1st - 11st Steps Bottom View  
QTY : 11PCS  
w/ Double Sides Railing

LED LIGHT WIRE THROUGH HERE TO  
CONNECT WITH THE STRINGER WIRE OUT  
FROM THE UPSTAND TUBE

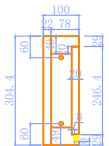


12nd Step  
Side View

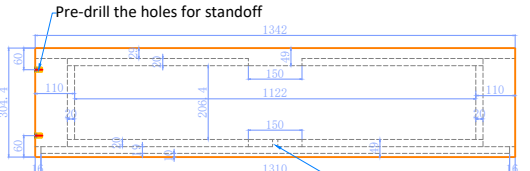


12nd Step Bottom View  
QTY : 1PCS  
w/ Single Side Railing

LED LIGHT WIRE THROUGH HERE TO  
CONNECT WITH THE STRINGER WIRE OUT  
FROM THE UPSTAND TUBE

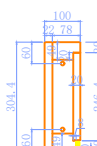


12nd Step  
Side View

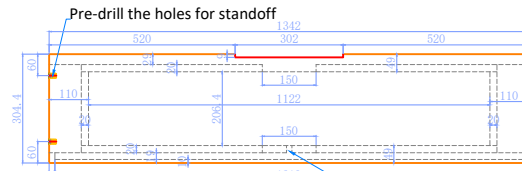


15th - 21st Steps Bottom View  
QTY : 7PCS  
w/ Single Side Railing

LED LIGHT WIRE THROUGH HERE TO  
CONNECT WITH THE STRINGER WIRE OUT  
FROM THE UPSTAND TUBE

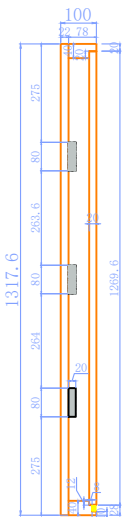


22nd Step  
Side View

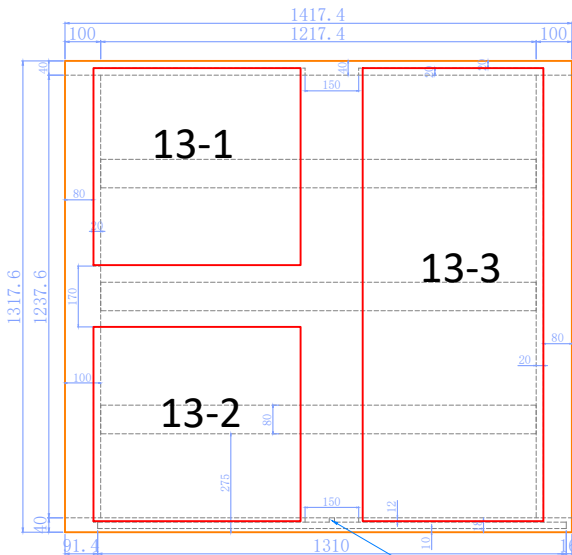


22nd Step Bottom View  
QTY : 1PCS  
w/ Single Side Railing  
(w/ a small channel for stringer top plate )

LED LIGHT WIRE THROUGH HERE TO  
CONNECT WITH THE STRINGER WIRE OUT  
FROM THE UPSTAND TUBE



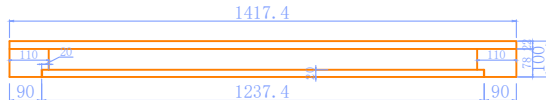
Side View



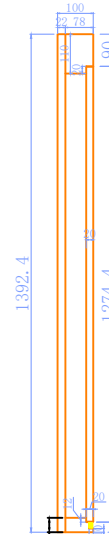
Bottom View

13rd Landing  
QTY : 1PCS  
w/ 3pcs Bottom Sealing Panels

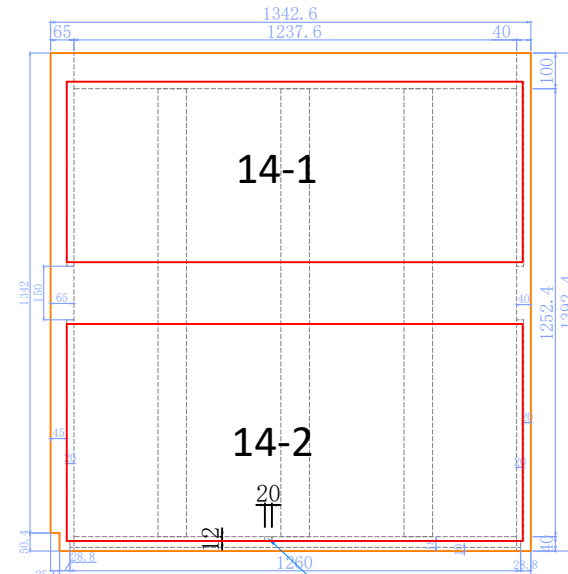
LED LIGHT WIRE THROUGH HERE TO  
CONNECT WITH THE STRINGER WIRE OUT  
FROM THE UPSTAND TUBE



Front View



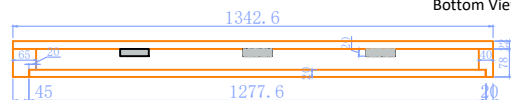
Side View



Bottom View

14th Landing  
QTY : 1PCS  
w/ 2pcs Bottom Sealing Panels

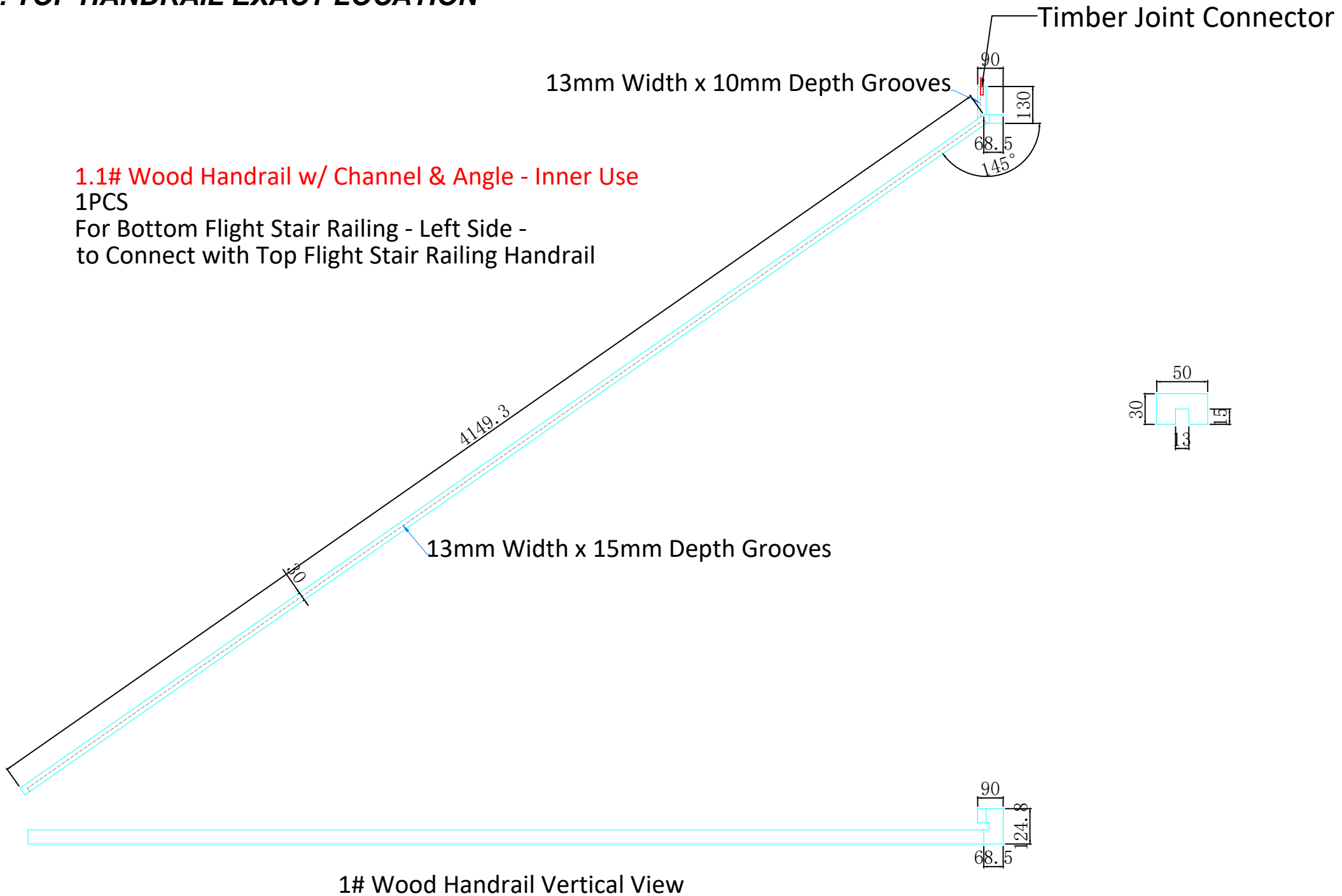
LED LIGHT WIRE THROUGH HERE TO  
CONNECT WITH THE STRINGER WIRE OUT  
FROM THE UPSTAND TUBE

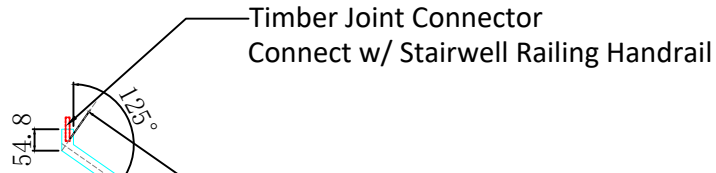
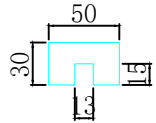


Front View



## 6. TOP HANDRAIL EXACT LOCATION

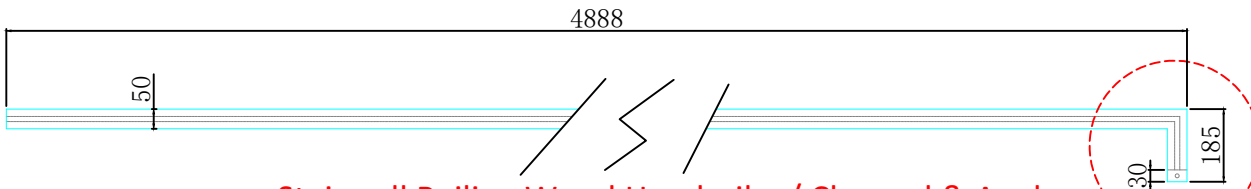




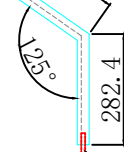
**3# Wood Handrail w/ Channel & Angle**  
**1PCS**  
 For Top Flight Stair Railing - Left Side



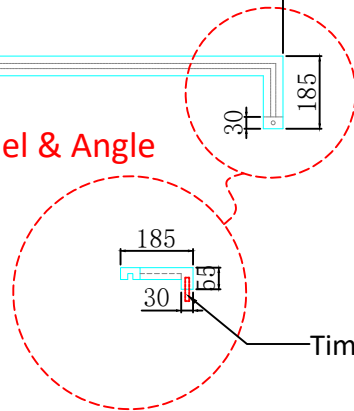
**1.2 # Wood Handrail w/ Channel & Angle - Outer Use**  
**1PCS**  
 For Bottom Flight Stair Railing - Right Side



**Stairwell Railing Wood Handrail w/ Channel & Angle**  
**1PCS**



Timber Joint Connector  
 Connect w/ 1.1# Handrail  
 (Bottom Flight Left Handrail)



Timber Joint Connector

2760.6

282.4

3907.9

4888

54.8

125°

30

5

21

50

30

185

185

30

15