



GENERATION 4

# Installation of Kameleon Structures™

## For “L” and “U” stair shapes

Step 1 - Site preparation.  
Step 2 - Installation of the structure.  
Step 3 - Building of walls adjacent to the stair.  
Step 4 - Installation of drywall.

Considering the amount of stair configurations, this document is intended to be a guide which aims to describe the basics for the installation of the Kameleon™ Structures.

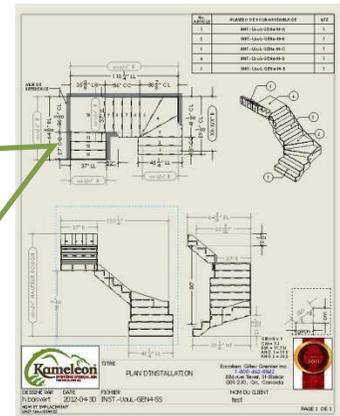
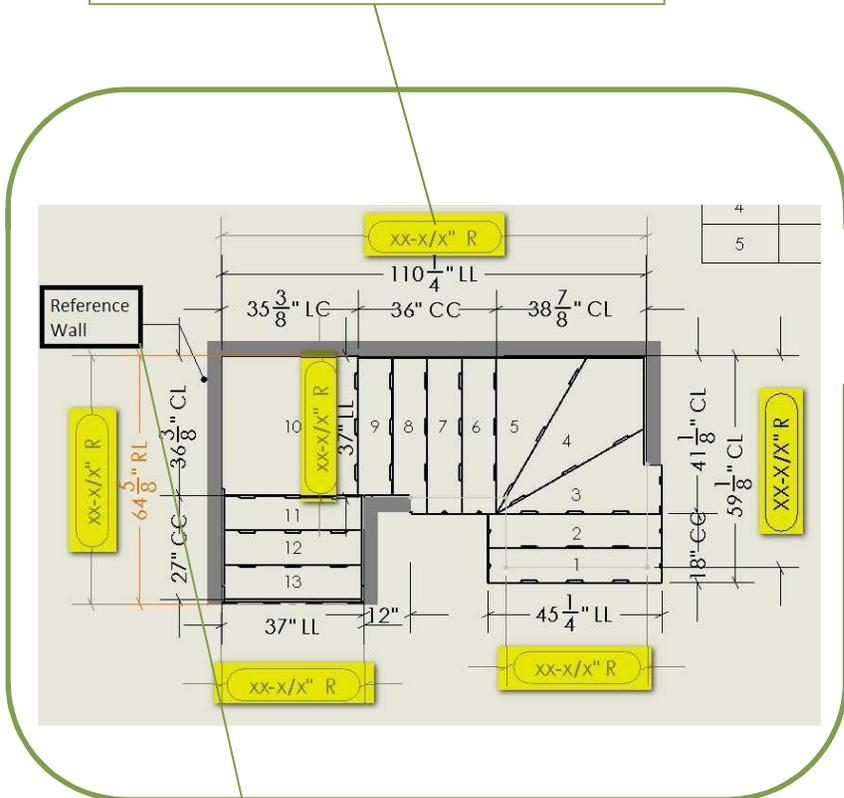
The floor framing (joists assembly or others) must be prefabricated according to the dimensions shown on the Kameleon™ installation plans.



Check these inspection points on the Kameleon™ structures before installing the coatings.

# Step 1 – Site preparation

1.1-Check the dimensions of the opening of the upper floor according to the specifications on the installation drawings (framed boxes).

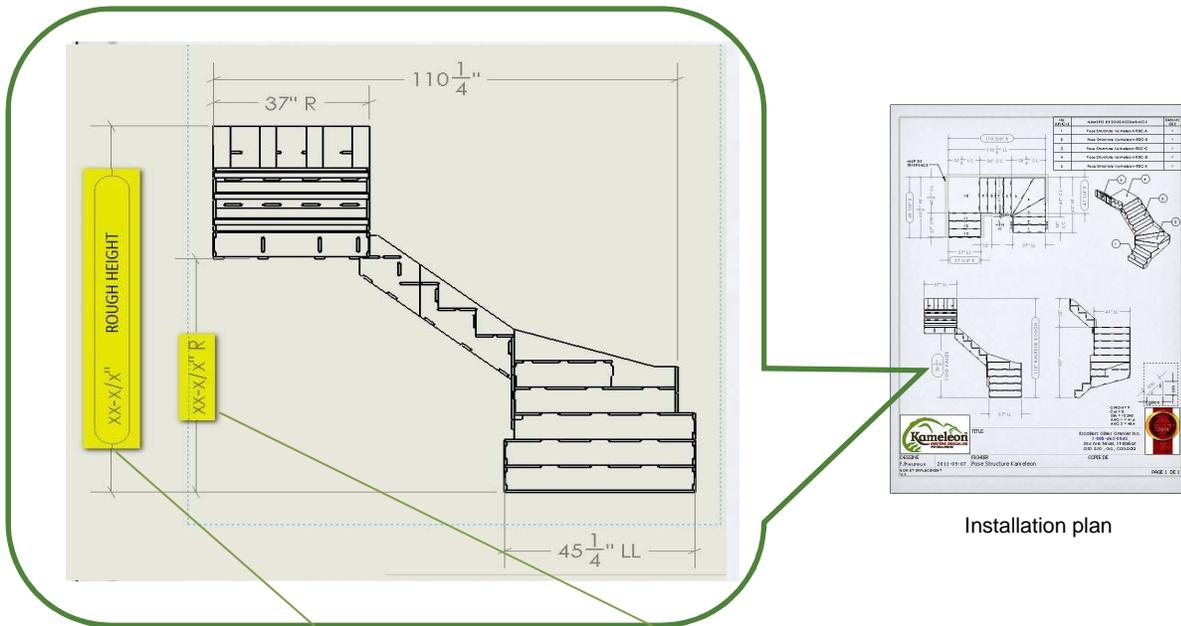


Installation plan

1.2- Build the reference wall(s) where noted.

# Step 2 - Installation of the structure

**2.1-** Identify the sequence of installation. Generally, the highest "landing" or "winder treads" settles first. Subsequently, the sections must be installed one after the other downward and upward, as appropriate. For this example, the landing must be installed first.



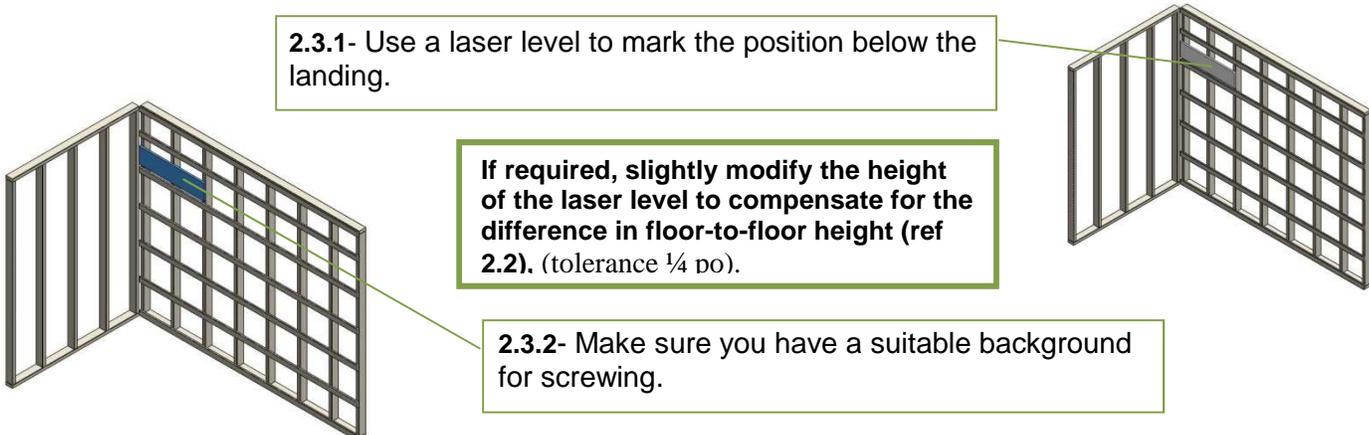
**2.2-** Check the conformity of the floor-to-floor height with the installation plan (tolerance 1/4 po.)

**2.3-** Install the highest landing or winder treads at the elevation shown on the installation plan. To facilitate installation, the elevation plan shows the bottom of the landing.

**2.3.1-** Use a laser level to mark the position below the landing.

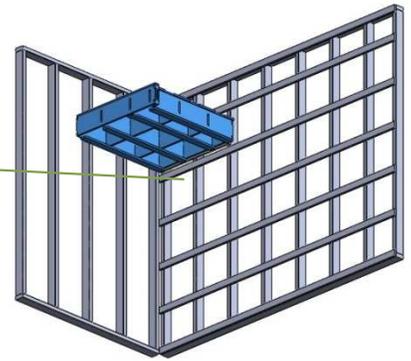
**If required, slightly modify the height of the laser level to compensate for the difference in floor-to-floor height (ref 2.2). (tolerance 1/4 po).**

**2.3.2-** Make sure you have a suitable background for screwing.



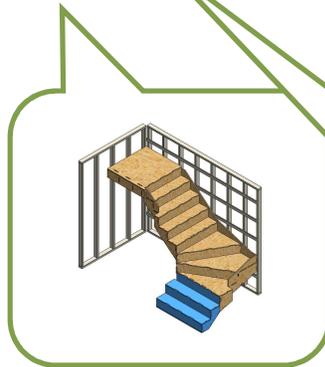
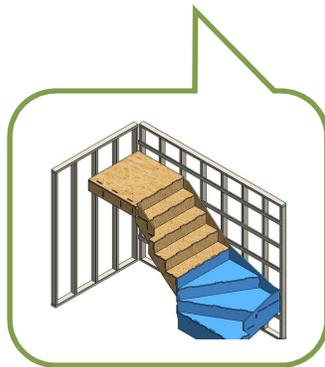
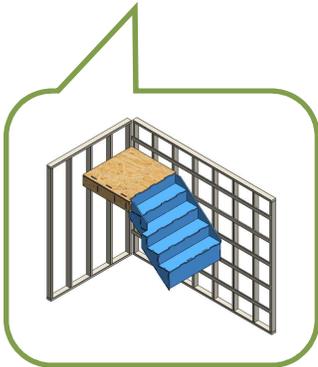
**2.3.3-** Fix temporary supports (screws or wood blocks) in order to set the landing or the winder treads. Level and secure this section.

**Note:** Remove the screws / temporary blocks only when the section is completely fixed.



**2.4-** Install the other sections one after the other downward, and then upward.

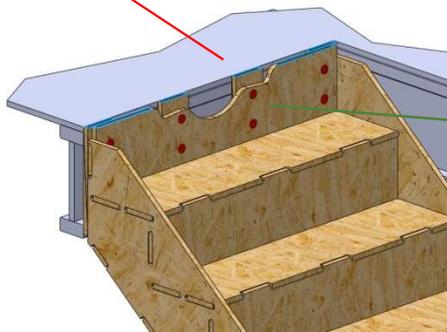
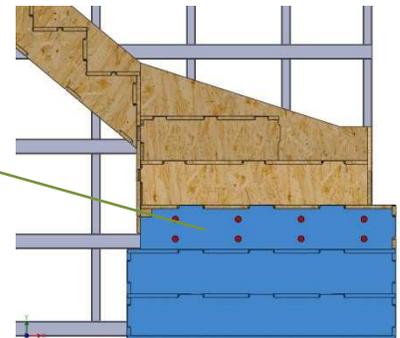
**Note:** Use a minimum of 3 screws per stud and make sure to be leveled before setting up completely.



**Make sure that each section is leveled transversely and longitudinally.**

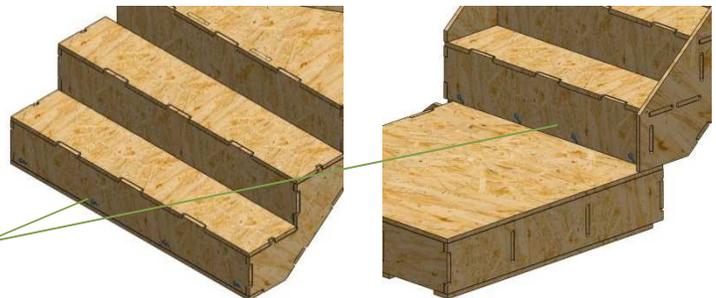
**2.4.1-** Use two 1" screws every 6 to 8 inches to fix the sections together.

**Make sure that the top of the riser of the highest section is flush with the top of the floor.**



**2.4.2-** Use two 2 ½ " screws for each wedge to fix the highest riser with the joint beam.

**2.4.3-** Screw the lowest riser at an angle to the floor/to the landing as per diagram.



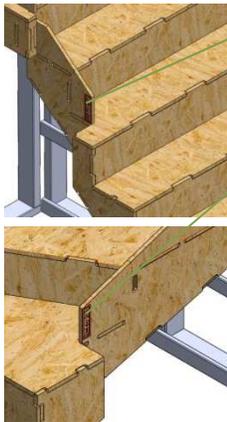
**No changes to the structure can be made without the authorization of Gilles Grenier Stairs.**

**Never use the stairs before step 3 is completed.**

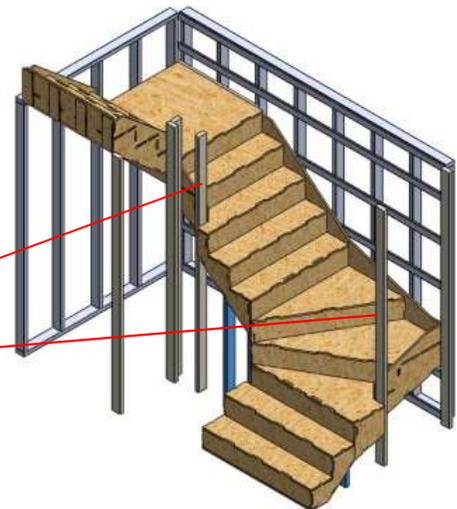
## Step 3 - Building of walls adjacent to the stair

**3.1-** In a staircase with a balustrade, fix the wall reference studs exactly where indicated (the exact location of the stud is specified where the balustrade stops).

**Note: Use 3 screws per stud.**

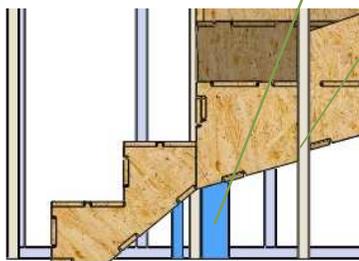


**Make sure the 2x4 transition studs are positioned correctly.**



**3.2-** Complete the assembly of the walls adjacent to the stairs

- Use Full-length studs for the sections without balustrade.
- Use studs under the stairs for the sections with balustrade.



**3.3-** Install a suitable background for the screwing of the handrails.

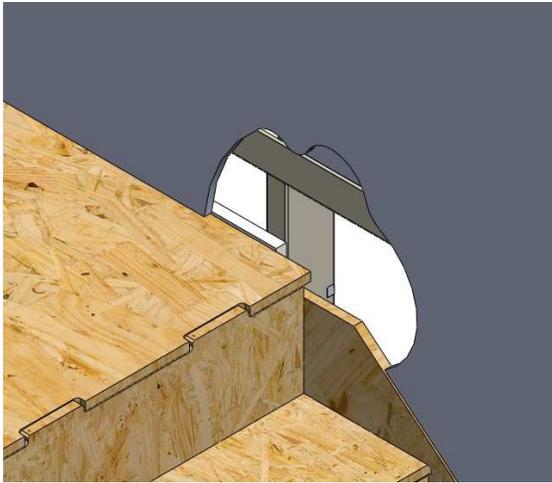
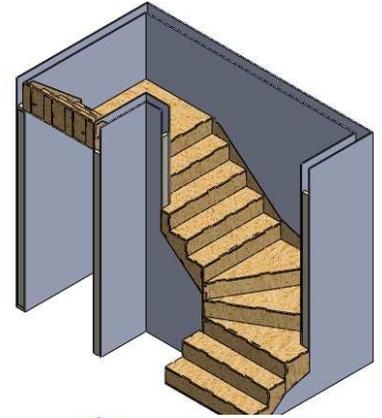


**Tightly screw the studs to the stringers of the structure.  
Use 3 screws per stud.**

**Always install temporary railing where required before using the stairs or allowing its use. Install in accordance with security code for construction workers, Section 3.8.3.**

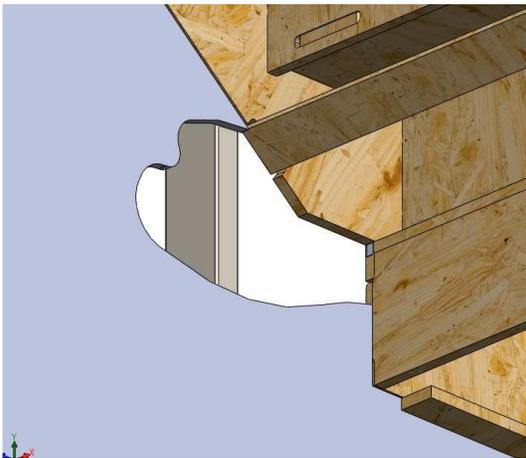
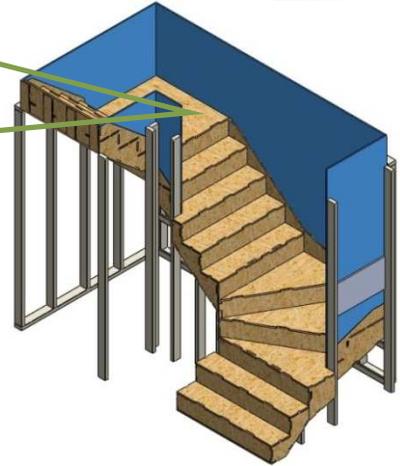
# Step 4 - Installation of drywall

**4.1-** Install drywall taking into account that it must finish on the stringer of the structure (1/2" drywall versus 5/8" stringer). This applies to above and below the stairs.

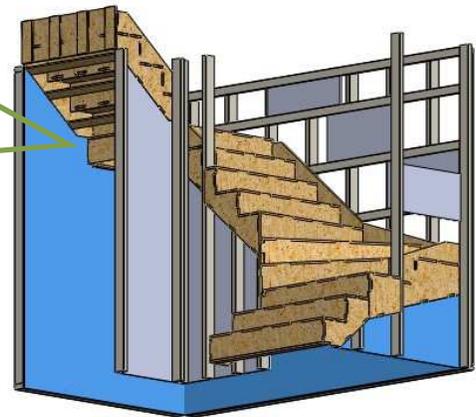


(Drywall and stringer: Top view)

**Make sure that the drywall (1/2") sits on top of the stringers (5/8").**



(Drywall and stringer: View from below)



**4.2** To ensure a better finished product, we recommend plastering intersections between stringer and drywall.