

# Tiny house workshop : from planning to construction

## TABLE OF CONTENTS

### CHAPTER 1 : REGULATIONS

#### 1.1. Introductions

- 1.1.1. Who am I?
- 1.1.2. Who are you?
- 1.1.3. Flow of the workshop

#### 1.2. Road regulations

- 1.2.1. Authorized dimensions
- 1.2.2. Weight limitations
- 1.2.3. Updating your registration
- 1.2.4. House size vs the capacity of the axles
- 1.2.5. Trailer characteristics
- 1.2.6. Hitch characteristics

#### 1.3. Land regulation

- 1.3.1. A bit of history
- 1.3.2. Tiny houses as seen by cities
- 1.3.3. Future projects

### CHAPTER 2 : MAXIMIZING SPACE

#### 2.1. How to plan for a small space

- 2.1.1. Examples of planning worldwide
- 2.1.2. Examples of planning from 12 to 24'

#### 2.2. Maximizing space

- 2.2.1. Framing
- 2.2.2. Mezzanine, stairs and ladders
- 2.2.3. Furniture

### CHAPTER 3 : PLANS AND BUDGET

#### 3.1. Drawing your plans

- 3.1.1. Presentation of our 3D model
- 3.1.2. Sketchup demonstration
- 3.1.3. Autocad demonstration

#### 3.2. Establishing your budget

- 3.2.1. Self-building
- 3.2.2. Exterior shell

## **CHAPTER 4 : MATERIALS**

### **4.1. Criteria for selecting your materials**

- 4.1.1. Life-cycle assessment
- 4.1.2. Grey energy
- 4.1.3. Emissions of greenhouse gases
- 4.1.4. Weight
- 4.1.5. Cost

### **4.2. Criteria analysis for various types of materials**

- 4.2.1. Trailer
- 4.2.2. Exterior siding
- 4.2.3. Roofing
- 4.2.4. Insulation
- 4.2.5. Interior siding
- 4.2.6. Floor

### **4.3. Recycled materials**

## **CHAPTER 5 : CONSTRUCTION**

### **5.1. Constructing your tiny house...**

- 5.1.1. Insulation of the trailer and subfloor
- 5.1.2. Framing construction
- 5.1.3. Roof installation
- 5.1.4. Door and windows
- 5.1.5. Exterior siding
- 5.1.6. Walls and roof insulation
- 5.1.7. Electricity and plumbing
- 5.1.8. Interior siding
- 5.1.9. Flooring and finish

## **CHAPTER 6 : ENERGY AND WATER**

### **6.1. Energy**

- 6.1.1. Electricity 101
- 6.1.2. Being connected to the network or off-grid?
- 6.1.3. Solar energy
- 6.1.4. Other sources

### **6.2. Water**

- 6.2.1. Drinking water needs
- 6.2.2. Drinking water supply
- 6.2.3. Black and gray water
- 6.2.4. Wastewater treatment