



KIT ADD-ON WHEEL4STAIRS – TECHNICAL SPECIFICATIONS



The W4S kit can be installed on any manual wheelchair from the market in order to climb stairs with an accompanying person, the descend is done with the original wheels .

When climbing, the W4S kit rests on the steps thanks to the notched wheels .

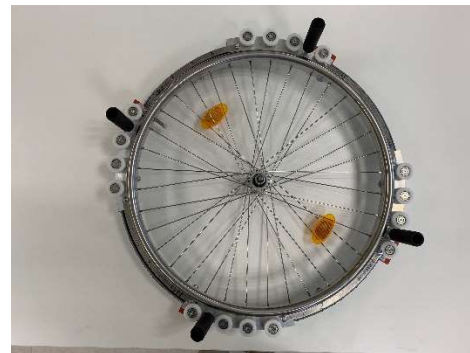
When descending, the W4S arm and handrails are used to hold the chair .

The kit is equipped with :

- The notched W4S wheels for the rise
- A lever for the comfort of the accompanying person

The installation of the kit is simple and quick , and requires no tools.

- **Plug & Roll** : The companion replaces the wheels of the chair with our W4S
- He raises the chair of 2cm by a jack
- The wheel axle is a market standard
- The wheel is equipped with :
 - Small handles for pulling the wheels
 - Casters for sliding on the step
 - A grip skate for hooking the next step



• The lever effect provided by the arm considerably reduces the effort.

- It clips onto the armchair frame.



- **Its key contribution is to enable a leverage, so that the wheelchair goes from one step to the next up without any effort from the seated person.**



Preliminary technical characteristics (*):

Model : Kit Wheel4Stairs 1.0

The minimum weight of the accompanying person must be related to that of the seated team member ():**

For a person seated	55 kg	60 kg	65 to 75 kg	85 kg	100 kg
Minimum accompanying person's weight	56 kg	60 kg	62 kg	64 kg	69 kg

Straight stairs in the scope:

Maximum slope of a level (°)	6 ° or 1 0 %
Maximum slope of stairs (°)	35 ° or 70%
Concrete explanation of the slope of a staircase : For a step : If its height is 13 cm, its depth must be greater than 19 cm. If its height is 21 cm, its depth must be greater than 30 cm.	
Swivel width, and U-turn	1 1 00 mm
Minimum stair width (for a seat width of 44 cm)	1000 mm
Minimum landing length (setback for the guide)	1 4 00 mm
Maximum step height	210 mm
Minimum step depth	110 mm
Maximum step depth	No limits

Stairs turning in the scope, Haussmann type :

Minimum interior radius	3 2 0 mm
Minimum outside radius	1 5 00 mm

Characteristics of the W4S kit :

Authorized rear wheel diameter	24 "
Maximum weight of a person sitting th	Depends on the chair and accompanying person
Total mass of the device	Around 6
Mass of the heaviest transportable part	Around 2Kg
Width added to that of the armchair (handles deployed)	+ 1 00 mm on each side
Lever length	1500 mm

All materials used are b iocompatib them and respect the REACH regulation .

The W4S kit conforms to the following standard :

ISO 7176-28: 2012 : Wheelchairs: requirements and test methods for stairlifts

Being tested at CERAH in France : CE compliant with European Directive 93/42 EEC Annex VII