For the construction / installation of any system, some tools are needed. Having the right tools is very important for proper installation, and also to optimize performance.

The brand of these tools will be chosen by the installer. This is just an orientation guide for the type of tools.

Below we show the specific tools for each step of the installation that Porcelanosa recommends.

For any construction work, you need some basic tools or hand tools. For the installation of ventilated facades, these are some of them.

**HAND TOOLS**

**TAPE MEASURE:** We will need it during the entire installation process to take all the necessary measures in the different phases of installation.

**PENCILS AND MARKERS:** Necessary to mark different measures and references for the layout, panel cuts, etc...

**KNIFE:** This tool will have different utilities during the installation, such as marking our layout reference points or other marks in the vertical profiles.

It is recommended to do it with the knife, and then we will keep our reference marks always.

Since when we clean the profiles with alcohol to install panels, or because of rain, dirt ... other types of marks will disappear.
**CHALK LINE:** Very useful for making large marks of the horizontal and vertical layout on the substrate wall.

**HAND LEVEL:** Tool to check leveling or plumb on small surfaces, or during the installation of panels.

**HAND SMALL LEVEL:** As shown in the photo, this tool can be used to level the start fixing plates that are of small size.
**TOOL GUIDE**

**ADJUSTABLE SMALL SQUARE:** It will help us to draw straight lines on the profiles, or small areas. We can also get squares in small places like window returns, heads, or small corners.

**ADJUSTABLE BIG SQUARE:** Very useful tool to correctly adjust a square in the meeting of the profiles of 2 elevations, also to get squares in slightly larger returns.

**ELECTRIC TOOLS**

**IMPACT DRILL:** Tool needed during the entire installation process. This tool will be used to assemble all the components of the system. Using the correct accessory or bit, the different types of screws included in the system can be installed.

**HAMMER DRILL:** This tool will be needed when the system is going to be anchored to a solid wall such as concrete, CMU wall, brick and others.

On solid walls it is necessary to pre-drill the wall to install the anchor.

**ANGLE GRINDER:** Necessary tool for cuts in metals already installed, and for the cutting of some fixing plates.

Also to make cuts in some panels, such as light boxes, plugs or with different shapes.
IMPACT DRILL WITH DRILL HOLDER: Drill with drill holder that allows use special types of drill bits that do not incorporate the fast coupling. These can be the round diamond drill bits to make holes in the panels and some others to drill metal.

CHOP SAW METAL CUTTING: With this tool and the right blade, all profile components (omega profile, L profile and T profile) can be cut quickly, easily and finely.

ROTATING LASER LEVEL WITH RECEIVER: Necessary and important tool to obtain references, levels, lines, and plumbs. This tool works with great precision even at long distance. It will facilitate the work and allow us a better finish, because if the layout, levels, aligned and plumbed profiles is perfect, the panels will be installed with great quality.
HEX BIT 8mm-5/16": With this bit for the impact drill, we can install the self-drilling screws that are needed to anchor the omega profile to the metal studs.

Although it is a different screw to the previous one, we can also anchor the brackets to the omega profile, and the vertical profiles to the brackets with the same bit.

DRILL BITS FOR METAL: These drills are necessary to make predrills in the omega profile when the sub-structure system is anchored on wood studs or solid concrete wall, CMU ... Since the screw used in these cases is not self-drilling.

These are also very useful when we are building the substructure of a corner, because we will have to join profiles between them, and making a pre-drill facilitates the smoother entry of the final screw.
ADJUSTABLE HAND CLAMPS: This tool is used to hold the profiles during their alignment and plumb.

The manual adjustment allows exact tightening to allow movement without releasing them. It is recommended to use the appropriate size to allow space in the bracket to insert the screw. It is shown in the photos.

HAMMER: With this tool, in addition to other uses, we can adjust the alignment and the plumb of the profiles when they are held by the adjustable clamps, knocking them in or out according to the position where we need the profile.
STRAIGHT LINE: After having installed two master profiles at the ends of the elevation and from the top to the bottom of the elevation, this element allows us to align the profiles in a precise way. It is recommended to put it with the maximum tension, to avoid the movement and then obtain a completely straight guide.

THIN VISE GRIPS: When the substructure of a corner is built, the spaces to work and install the screws are smaller. With this tool we can hold the profiles, and at the same time leave free space to put the screws when everything is in the correct position.
PHILIPS-P2 BIT: With this bit for the impact drill, we can install the screws that fix the clips to the vertical profiles and that will hold the panels. The same screws that join the profiles of the substructure of the corners.

ALCOHOL OR ACETONE: It is very important and mandatory to clean and dry the profile system before applying Porcelanosa P-404 adhesive. In order for this adhesive to work properly and not lose its properties, it is necessary to clean the profiles with any of these two products.
GLUE GUN: Porcelanosa P-404 adhesive is applied to the profiles with a gun of this type. A strong metal gun is recommended to facilitate the application and guarantee its durability.

CAULK WARMER BAG: In areas where the weather is cold, the days that you want to apply P-404 Porcelanosa adhesive with temperatures of 40f or lower, it is mandatory to use this element. In it you can keep 12 tubes of adhesive to keep it at a suitable temperature for its application.
SPRING CLAMPS: These small clips are very useful to hold the panels installed in the facade when no clip has been installed yet. This will allow you to prepare the clips and screws without dropping the panel.

RUBBER MALLET: This tool is used to adjust the level and position of the panels so that they are properly installed. Being rubber, allows us to hit the panel without causing any damage to it.
TOOLS AND ACCESSORIES FOR CUTTING AND GROOVING PANELS

DRY TILE CUTTER MACHINE: This tool allows us to cut panels quickly and easily. The cut of this machine is not 100% accurate, and the edge finish of the panel is not clean, so sometimes you have to sand or refine the cut to leave a smooth finish.

WET SAW MACHINE: Wet cutting machine, which makes very precise cuts without chips and with an edge finish like the factory. In the market you can find machines with different sizes according to the size of the panels that we are going to cut.
PORCELANOSA KERF SAW MACHINE: This is a wet cutting tool, which reproduces the kerf cuts on the edge of the panel exactly like those coming from the factory.

It is an exclusive machine of Porcelanosa, and cannot be obtained in stores, since it offers an adaptation that includes an automatic water system, to cool the cuts. It also includes a clamp, to fix the machine to the panel. This clamp allows make the kerf easily, and accurately.

DIAMOND BLADES AND ROUND DIAMOND DRILL BITS: These accessories will be necessary to make some cuts and penetrations in the panels. They will be used in a grinder and a drill.

It is important to select the right accessories, and that they must be specific to work with porcelain. This will allow obtain adequate finishes and work in an easy way.