

PORCELANOSA® FACADES

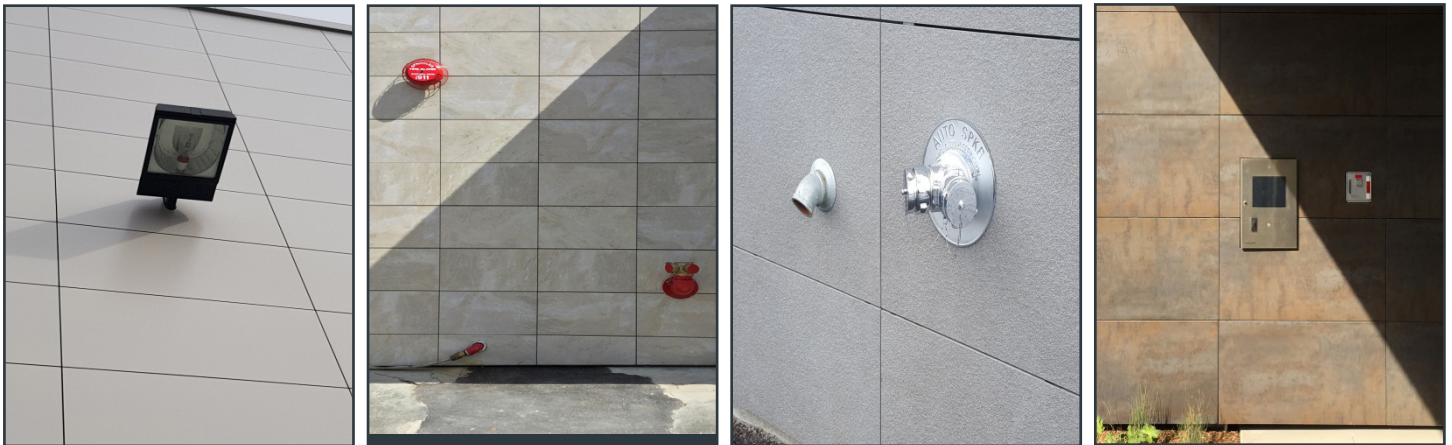
TECHNICAL BULLETIN

MARCH 2018

SUBJECT: PENETRATIONS & SIGNAGE TECHNICAL BULLETIN PORCELANOSA VF SYSTEM

INTRODUCTION

The following bulletin details instructions for applying signage or any other penetration through Porcelanosa's Porcelain Panel Façade system. Penetrations include light boxes, plugs, signs, numbers, pipe outlets, etc.



To facilitate installation and minimize labor and time to install, we recommend you contact Porcelanosa's Facades Technical department for guidance and assistance prior to installation.

HEAVY ITEM INSTALLATION

When installing large, heavy items such as a sign, please consult with a structural engineer to select the best option for support.



Examples of signs on KRION®, Porcelain, and XLIGHT panels.

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INSTALLATION

- Match each individual panel cut according to the shape and size of penetration.
- It is wise to know in advance where the opening will be placed, and to cut the penetration into the panel PRIOR to installation.
- Use a grinder with a porcelain-cutting blade.
- For smaller, round cuts, use a diamond-round bit.



The easiest location for cuts is typically in the center of a horizontal joint. This means that we will have to cut two pieces, but the blade will always have an easier exit from the panel when we make the cut.

HOW TO MAKE A SQUARE CUT

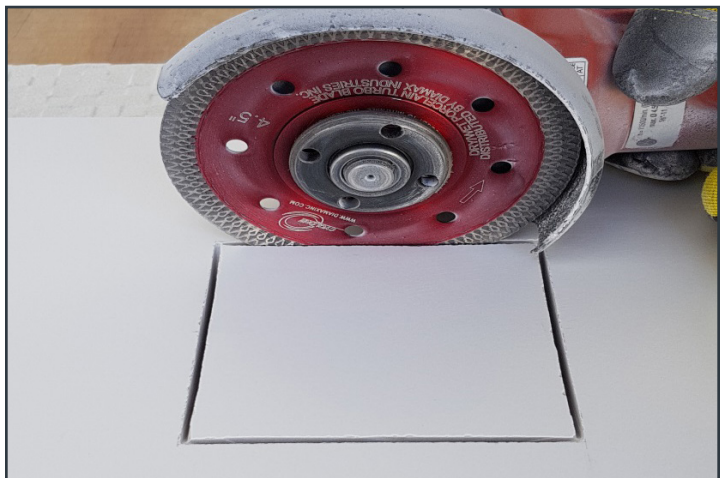
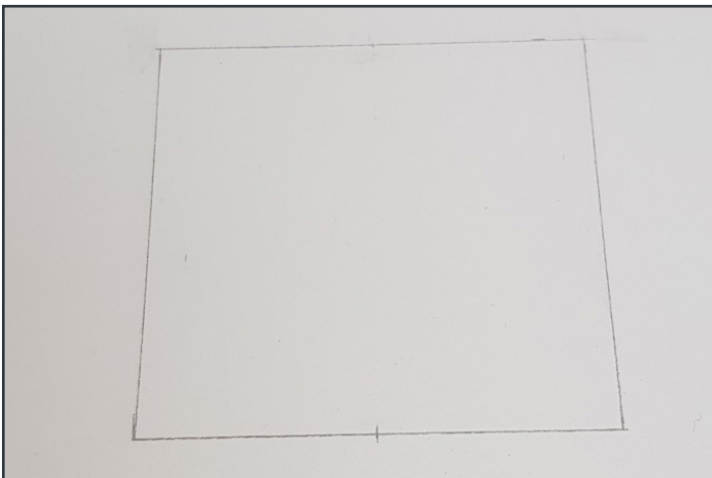
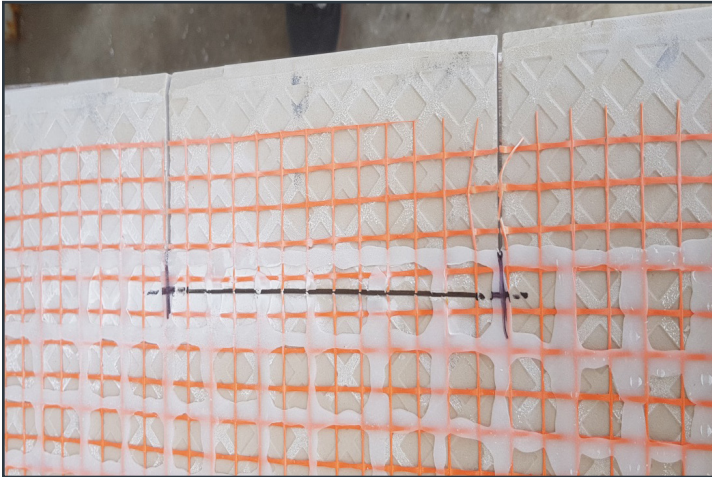
1. Mark the panel to the exact contour of the cut along the **front and back** of the panel.
2. Cut along the front/face of the panel, carefully following the marks.
3. Next, cut along the back of the panel. You may need to cut beyond the square mark to finish the cut.
4. Lightly tap the cut piece to detach from the panel.
5. If necessary, refine the corners with a grinder.
6. For cases where cuts must be within one panel (and not span two), we recommend centering the cut within the panel as much as possible. If it cannot be avoided, keep cuts a minimum of four (4) inches away from any panel edge.



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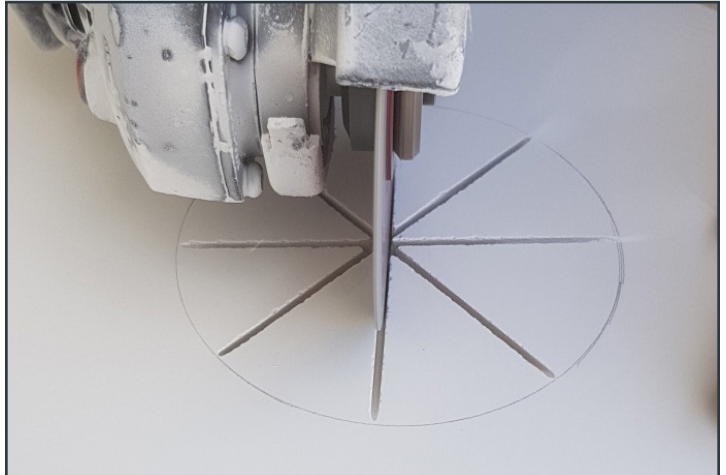
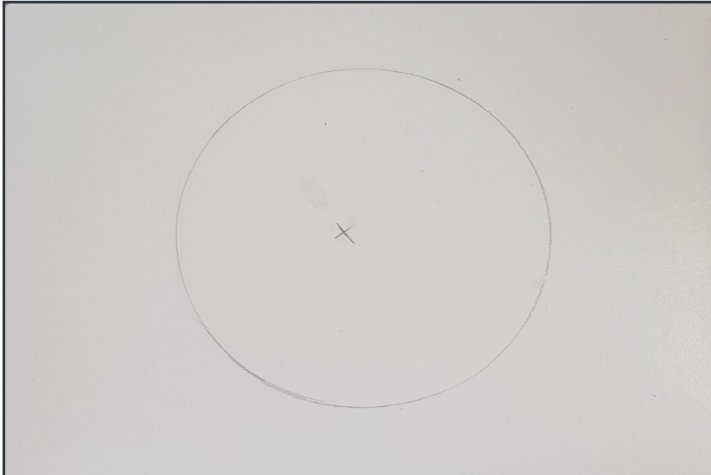
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HOW TO MAKE CIRCULAR CUTS

Creating a circular cut with a grinder in the panel that will be used requires a bit more time. While the process is similar, it does require more cuts in the panel.



1. Cut the contour of the circle
2. Detach the cut pieces with a light tap, and,
3. If necessary, file the edges of the cut to create a fine finish.



If the element to be installed has no trim that covers the hole, the cut should be as clean and precise as possible.

For easier cuts use a round diamond coated drill bit. Wet the bit with water so that it does not burn, and so that it helps control dust during coating. Select the appropriate bit diameter for your application, and ensure it is one that is recommended for cutting porcelain.

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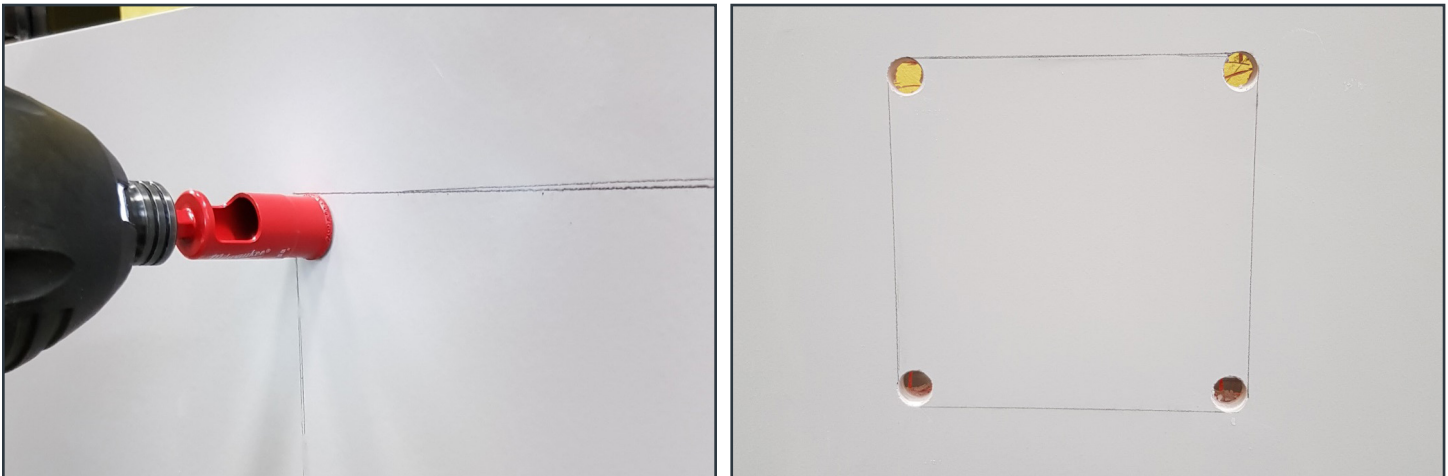
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CUTTING PANELS AFTER INSTALLATION

Whether due to design changes or installation error, there may be a need to install penetrations through panels after they are already in place. To do this:



1. Mark the panel with the desired cut shape.
2. For square shapes, bore a hole through the panel at each corner, as shown in the figure above.
3. Continue to cut along the marked lines.

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4. Lightly tap the cut piece to remove.
5. File the corners and edges, if necessary.
6. Once you have access to the wall cavity, install your chosen element.

Below are examples of elements installed through Porcelanosa Porcelain Panel Facades:



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ELEMENTS INSTALLED ON PORCELANOSA FACADE SUBSTRUCTURE:

Please note that this method is not recommended unless signed off by a structural engineer or project designer. In this situation, it is important to take into account the weight of the element that is going to be installed, where it will be installed, and if necessary, to obtain and review an engineering report showing that the substructure is strong enough to withstand the deadload of elements.

Never hang or install an element directly on the porcelain panel; the panel does not have the capacity to hold it.

Porcelanosa is not responsible for third party elements/items failing due to installation on our substructure or panels.



Example of box for firefighters installed on and with our system.

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Example of light box installed in a vertical profile, for the installation of a lamp.

FOR QUESTIONS OR ASSISTANCE, PLEASE CONTACT THE PORCELANOSA FACADES TECHNICAL DEPARTMENT AT 201-995-1310 EXTENSION 2017

