HOME of MAGNUMBOARD®

"The New Generation *GREEN* Building Material"

"Install It for Health-Install It for Life"

Sheathing & Siding Products

TECHNICAL BULLETIN No.:	063024
Subject:	Installation Instructions for a Puddle Flange in Magnum® 18mm Flooring Substrate
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Issue No.:	03

1.0 PURPOSE

1.1 Many have asked if a puddle flange can be installed in Magnum's 18mm Fiber Reinforced MGO flooring substrate. The answer is yes, but like any other construction material installation, it must be done correctly.

1.2 Although Magnum always recommends installers follow the manufacturers installation instructions, Magnum offers the following general guidelines for installing a Puddle Flange in Magnum® Fiber Reinforced MgO 18mm flooring substrate.

2.0 GENERAL

1.1 Key Considerations for Installing a Puddle Flange in Magnum's 18mm fiber reinforced MGO flooring substrate:

a. Puddle Flange Purpose: A puddle flange is designed to prevent water or gas from entering buildings through pipe penetrations.

b.. Magnum's fiber reinforced MGO flooring substrate is Water-Resistant, Not Waterproof. Magnum's 18mm flooring substrate is highly water-resistant and suitable for humid areas like bathrooms, but they are not completely waterproof.

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3.0 INSTALLATION GUIDELINE

3.1 Although Magnum Board Products, LLC always recommends that the installer follow the manufacturers recommended installation instructions and local code requirements, the following is a typical and accepted installation procedure.:

a. Cut the drainage pipe flush with the floor.

b. Recess or install the puddle flange flush with the floor to prevent water accumulation.

c. Glue the puddle flange to the drainage pipe and to the floor surface.

d. Apply the selected waterproof method around the flange. To ensure a proper waterproof seal on the cut out when using Magnum® fiber reinforced MGO flooring substrate for a shower pan, Magnum® recommends:

1. apply a waterproof membrane over the MGO board before tiling, or finishing; or,
2. apply a brush on or roll on coat of concrete sealant such as acrylic, polyurethane, epoxy, elastomeric, silanes, siloxanes, silicates or equal.
3. All the above are excellent for water proofing Magnum® fiber reinforced MgO flooring substrate.

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e. Allow the water proofing to dry completely before proceeding with the floor finishing.

f. Install the floor waste grate over the flange and ensure its securely fastened and level.

3.2 Puddle Flange and Waterproofing Connection: The puddle flange acts as a "bridge" connecting the waterproofing membrane from the Magnum 18mm fiber reinforced MgO substrate to the drainage pipe.

4.0 YOUR SELECTION OF MAGNUM® FIBER REINFORCED 18MM MGO SUB FLOORING

You could not have made a better material choice for this application. All Magnum fiber reinforced MgO building materials are virtually impervious to fire, water and insects; are not a food for mold and mildew; are non-toxic; and as delivered CO2 negative. The greenest and safest building materials that are on the market today.

Your choice will protect not only your family and coworkers, but your investment as well. Magnum fiber reinforced MgO building materials will last for many generations. Congratulations on your choice.

5.0 TEST DATA BEFORE AND AFTER PADDLE FLANGE INSTALLATION

5.1

THICKNESS	**18MM**		**14MM**	
Test direction	Length	Width	Length	Direction
Maximum Load	5560 N	4946 N	3211 N	3168 N
Flexural Strength	22.14 Mpa	19.69 Mpa	21.13 Mpa	20.85 Mpa
Average Flexural Strength	**20.92 Mpa**		**20.99 Mpa**	

5.2 Magnum fiber reinforced MgO 18mm sheathing exceeds strength requirements for puddle flange installations.

On Behalf of
Mother - Nature

THANK YOU

"GOTTA GO GREEN"