DRY LAID ON MODIFIED STONE BASE FOR 1 3/16" PEDESTRIAN INSTALLATION



- 1. Slope of subgrade and final elevation should be no less than 3/16" per foot, or 1.5%.
- 2. Install woven geotextile fabric on subgrade.
- 3. Tamp 4" 6" of 3/4" modified stone to 98% standard proctor density. Depth of base varies per market.
- 4. Screed 1" of washed concrete sand or 1/4" 3/8" open graded stone for the setting bed.
- 5. Install 1 3/16" Marmiro Stones® Natural Stone Pavers with tight joints.
- 6. Perform all cutting with a diamond blade.
- 7. Apply the reinforced concrete edge restraint or PVC edge restraint with 10" ungalvanized spikes along the outside edges.
- 8. Sweep overlay polymeric sand in the joints (install polymeric sand per manufacturer's instructions, which are located on the back of the bag).
- 9. Tamp the **antiqued** pavers with a four horsepower vibratory plate compactor, using a rubber mat, not a polyurethane mat or use a vibratory roller.
- 10. A vibratory roller is recommended when tamping **sandblasted** pavers.
- 11. Complete polymeric sand installation per manufacturer's instructions.

* FOR TRAVERTINE APPLICATIONS MARMIRO STONES® RECOMMENDS 1/4" - 3/8" OPEN GRADED STONE FOR THE SETTING BED.

Disclaimer: Applicable to Marmiro Stones® Products & Suggested Installation Guidelines



DRY LAID ON MODIFIED STONE BASE FOR 2 1/4" DRIVEWAY INSTALLATION



- 1. Slope of subgrade and final elevation should be no less than 3/16" per foot, or 1.5%.
- 2. Install woven geotextile fabric on subgrade.
- 3. Install 12" 18" of 3/4" modified stone to 98% standard proctor density compacted in 3"- 4" lifts. Depth of base varies per market.
- 4. Screed 1" of washed concrete sand or 1/4" 3/8" open graded stone for the setting bed.
- 5. Install 2 1/4" Marmiro Stones® Natural Stone Pavers with tight joints.
- 6. Perform all cutting with a diamond blade.
- 7. Apply the reinforced concrete edge restraint or PVC edge restraint with 10" ungalvanized spikes along the outside edges.
- 8. Sweep overlay polymeric sand in the joints (install polymeric sand per manufacturer's instructions, which are located on the back of the bag).
- 9. Tamp the **antiqued** pavers with a four horsepower vibratory plate compactor, using a rubber mat, not a polyurethane mat or use a vibratory roller.
- 10. A vibratory roller is recommended when tamping **sandblasted** pavers.
- 11. Complete polymeric sand installation per manufacturer's instructions.

NOTE: 2 1/4" Driveway pavers should only be used for light vehicular applications.

* FOR TRAVERTINE APPLICATIONS MARMIRO STONES® RECOMMENDS 1/4" - 3/8" OPEN GRADED STONE FOR THE SETTING BED.

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LOBASCIO SYSTEM: OPEN GRADED STONE BASE FOR 1 3/16" PEDESTRIAN INSTALLATION



- 1. Slope of subgrade and final elevation should be no less than 3/16" per foot, or 1.5%.
- 2. Install woven geotextile fabric on subgrade.
- 3. Tamp 4"- 6" of 3/4" open graded stone.
- 4. Pour 4"- 6" of 3,500 PSI concrete with 1/4" rebar on 12" centers.
- 5. Screed 1" of 1/4" to 3/8" open graded stone for the bedding layer.
- 6. Install 1 3/16" Marmiro Stones® Natural Stone Pavers with tight joints.
- 7. Perform all cutting with a diamond blade.
- 8. Apply the unreinforced concrete edge restraint.
- 9. Create weep holes in the concrete edge restraint using string or PVC pipe at the lowest points to allow water to escape.
- 10. Sweep overlay polymeric sand in the joints (install polymeric sand per manufacturer's instructions, which are located on the back of the bag).
- 11. Tamp the **antiqued** pavers with a four horsepower vibratory plate compactor, using a rubber mat, not a polyurethane mat or use a vibratory roller.
- 12. A vibratory roller is recommended when tamping **sandblasted** pavers.
- 13. Complete polymeric sand installation per manufacturer's instructions.

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LOBASCIO SYSTEM: OPEN GRADED STONE BASE FOR 2 1/4" DRIVEWAY INSTALLATION



- 1. Slope of subgrade and final elevation should be no less than 3/16" per foot, or 1.5%.
- 2. Install woven geotextile fabric on subgrade.
- 3. Tamp 4" 6" of 3/4" open graded stone.
- 4. Pour 4" 6" of 3,500 PSI concrete sand with 1/4" rebar on 12" centers.
- 5. Screed 1" of 1/4" to 3/8" open graded stone for the bedding layer.
- 6. Install 2 1/4" Marmiro Stones® Natural Stone Pavers with tight joints.
- 7. Perform all cutting with a diamond blade.
- 8. Apply the unreinforced concrete edge restraint.
- 9. Create weep holes in the concrete edge restraint using string or PVC pipe at the lowest points to allow water to escape.
- 10. Sweep overlay polymeric sand in the joints (install polymeric sand per manufacturer's instructions, which are located on the back of the bag).
- 11. Tamp the **antiqued** pavers with a four horsepower vibratory plate compactor, using a rubber mat, not a polyurethane mat or use a vibratory roller.
- 12. A vibratory roller is recommended when tamping sandblasted pavers.
- 13. Complete polymeric sand installation per manufacturer's instructions.

NOTE: 2 1/4" Driveway pavers should only be used for light vehicular applications.

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MARMIRO STONES[®] 1 ³/16" PERMEABLE PAVEMENT PEDESTRIAN INSTALLATION



- 1. Install woven geotextile fabric on subgrade. Slope of subgrade , if required should mirror final elevation.
- 2. Place 8" 12" of 3/4" open graded compacted in 3"- 4" lifts.
- 3. Screed 1" of 1/4" to 3/8" open graded stone for the setting bed.
- 4. Install 1 3/16" Marmiro Stones® Natural Stone Pavers with a minimum of 3/8" joint.
- 5. Perform all cutting with a diamond blade.
- 6. Sweep 1/4" open graded stone 1/4" below the surface in the joints to allow surface water to drain through the system.
- 7. Apply the reinforced concrete edge restraint along the outside edges.
- 8. Tamp the **antiqued** pavers with a four horsepower vibratory plate compactor, using a rubber mat, not a polyurethane mat or use a vibratory roller.
- 9. A vibratory roller is recommended when tamping **sandblasted** pavers.

NOTE: Permeable pavements are site specific and should be installed per engineered drawing.

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MARMIRO STONES® 2¹/4" PERMEABLE PAVEMENT DRIVEWAY INSTALLATION



- 1. Install woven geotextile fabric on soil subgrade. Slope of subgrade, if required should mirror final elevation.
- 2. Place 12" 18" of 3/4" open graded compacted in 3"- 4" lifts.
- 3. Screed 1" of 1/4" to 3/8" open graded stone for the setting bed.
- 4. Install 2 1/4" Marmiro Stones® Natural Stone Pavers with a minimum of 3/8" joint.
- 5. Perform all cutting with a diamond blade.
- 6. Sweep 1/4" open graded stone 1/4" below the surface in the joints to allow surface water to drain through the system.
- 7. Apply the reinforced concrete edge restraint along the outside edges.
- 8. Tamp the **antiqued** pavers with a four horsepower vibratory plate compactor, using a rubber mat, not a polyurethane mat or use a vibratory roller.
- 9. A vibratory roller is recommended when tamping **sandblasted** pavers.

NOTE: Permeable pavements are site specific and should be installed per engineered drawing.

NOTE: 2 1/4" Driveway pavers should only be used for light vehicular applications.

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MARMIRO STONES® WET LAID INSTALLATION



- 1. Slope of subgrade and final elevation should be no less than 3/16" per foot, or 1.5%.
- 2. Install woven geotextile fabric on subgrade.
- 3. Tamp 4"- 6" of 3/4" open graded stone.
- 4. Pour 4"- 6" of 3,500 PSI concrete with 1/4" rebar on 12" centers.
- 5. Mix and install 3/4" 1" mason sand with Type S cement for the setting bed.
- 6. Perform all cutting with a diamond blade.
- 7. Back-butter each Marmiro Stones® Natural Stone Paver with thin-set before laying on the mortar setting bed.
- 8. Install the 1 3/16" Marmiro Stones[®] Natural Stone Pavers, creating a 1/8" 3/8" mortar or grout joint using spacers.
- 9. Add mortar or sanded grout into joints (1/8" 3/8" joint). Sponge off excess mortar from the joints (color can be added to mortar if needed).

Optional Installation - Install Marmiro Stones[®] Natural Stone Paver with 1/8" mortar or grout joint using spacers. 1. Install a 1/16" - 1/8" non-sanded exterior grout in joint. Sponge off excess grout from the joints.

Note: All wet laid applications must have mortar or grout in the joints.

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MARMIRO STONES® 2¹/4" POOL COPING GUNITE POOL INSTALLATION



- 1. Lay out all coping pieces before installing. Make necessary cuts using a diamond blade.
- 2. Apply 1/16" thinset on the top of the bond beam.
- 3. Mix and apply 3/4" 1" mason sand and Type S cement for the setting bed.
- 4. Apply 1/16" smooth thinset on the bottom of the coping pieces.
- 5. Make sure to set an overhang of 2" from the bond beam to the front edge of the coping.
- 6. Space coping pieces at 1/4" 3/8" from the joints.
- 7. Place the mortar or sanded grout in a 1/4" 3/8" joint. Sponge off the excess from the joints.

*MSNSPC - MARMIRO STONES® NATURAL STONE POOL COPING

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MARMIRO STONES[®] STANDARD GUNITE POOL TILE INSTALLATION



- 1. Lay out all tile pieces on top of the coping pieces before installing. Make any necessary cuts with a grinder using a diamond blade.
- 2. Mix equal parts of marble dust and Type S white cement.
- 3. Apply the tile 1/8" from the bottom of the coping.
- 4. Use a wooden block to distribute pressure to set all the tiles equally to the bond beam.
- 5. Mix equal parts of marble dust and Type S white cement for the joints.
- 6. Use a rubber trowel to apply the grout in the joints.
- 7. Wipe off excess mortar twice or more with a clean sponge.
- 8. Wipe off the haze with a dry cloth.

*MSNSPC - MARMIRO STONES® NATURAL STONE POOL COPING

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MARMIRO STONES® THIN VENEER ON MASONRY WALL INSTALLATION



- 1. Waterproof the CMU block with a liquid waterproof system.
- 2. Apply a mortar mix for the scratch coat. Mix 1 bag of portland cement, 1/4 bag of lime, and 24 shovelfuls of mason sand.
- 3. Apply Marmiro Stones[®] Natural Stone Thin Veneer in a leveled line, working from the bottom up.
- 4. Place Marmiro Stones® Natural Stone Thin Veneer with no mortar joint, creating a tight fit.
- 5. Perform all cuts with a grinder using a diamond blade.
- 6. Apply veneer mortar to the back of Marmiro Stones® Natural Stone Thin Veneer.
- 7. Wipe off excess cement on the face of the stone.

Optional Installation - Install veneer with 1/4" - 3/8" mortar or grout joint using spacers.

1. Add mortar or grout into joints (1/4" - 3/8" joint). Sponge off excess mortar or grout from the joints (color can be added to mortar if needed).

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MARMIRO STONES® THIN VENEER ON PLYWOOD WALL INSTALLATION



MARMIRO STONES® NATURAL STONE THIN VENEER

- 1. Staple the tar paper, making sure to overlap each section by 4" starting from the bottom up.
- 2. Staple the moisture barrier on top of the tar paper- do not overlap. Follow manufacturer's guidelines.
- 3. Nail or screw the wire lath over the moisture barrier.
- 4. Place veneer mortar on the wire lath for the scratch coat application.
- 5. Apply Marmiro Stones® Natural Stone Thin Veneer in a leveled line, working from the bottom up.
- 6. Apply veneer mortar to the back of Marmiro Stones® Natural Stone Thin Veneer.
- 7. Perform all cuts with a grinder using a diamond blade.
- 8. Wipe off excess cement on the face of the stone.
- 9. Place Marmiro Stones® Natural Stone Thin Veneer with no mortar joints, creating a tight fit.

Optional Installation - Install veneer with 1/4" - 3/8" mortar or grout joint using spacers.

1. Add mortar or grout into joints (1/4" - 3/8" joint). Sponge off excess mortar or grout from the joints (color can be added to mortar if needed).

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