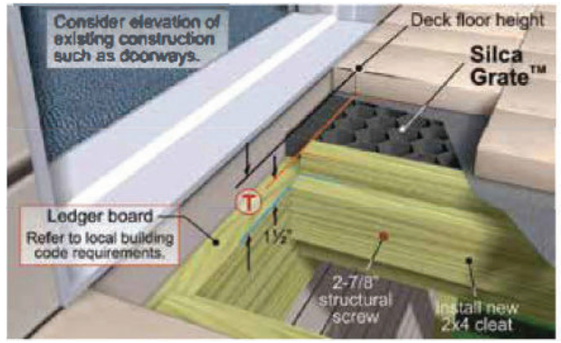
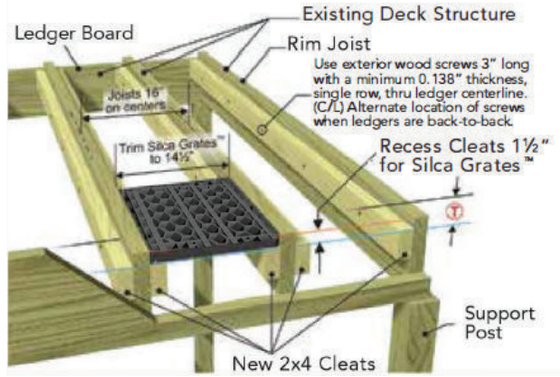
Remodeling & Resurfacing Deck Instructions

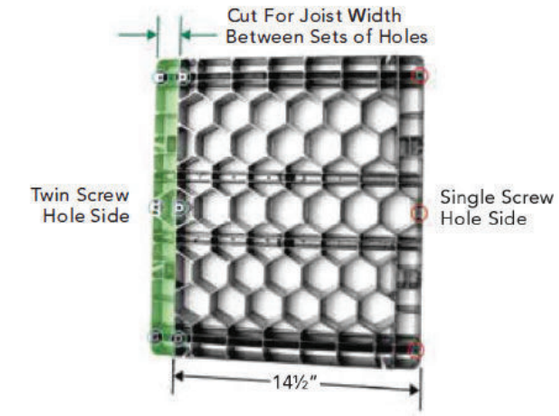
1. Remove all horizontal flooring (5/4 treated lumber, composite lumber etc.) from existing deck. RECOMMENDATION: Framing and footing should be inspected by a qualified building official to make sure they are in line with all state and local codes.
2. If you have sufficient threshold height, you may screw the SilcaGrate™ on top of your floor joist. Be sure to consider the stack height and desired finish floor height. (See second illustration in the New Deck Construction instructions).
3. If you do not have ample threshold height, you must add a 2"x 4" cleat on each side of the floor joist recessed 1-1/2" below the top of the joist and secure them with screws according to the Ledger Support instructions.

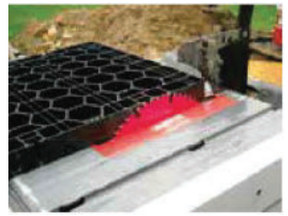


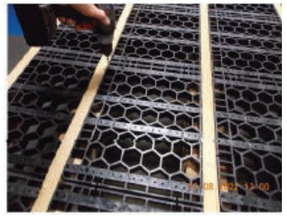
4. Trim 1-1/2" off the SilcaGrate™. Inlay the SilcaGrate™ on top of the 2"x4" cleat. NOTE: Deck construction must be in compliance with your state and local codes. Refer to Table 2 at the end of this section. I.C.C. ESR Report # 3748 verifies that SilcaGrate™ meets code requirements.



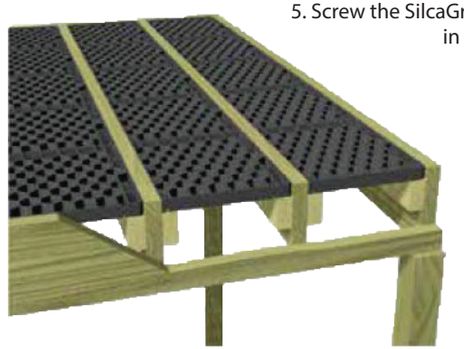
4. (Cont'd.) NOTE: SilcaGrate™ has two sets of screw holes on one side of the SilcaGrate™. Trim the twin screw hole side (see below).







5. Screw the SilcaGrates™ in place.



6. Install geotextile/landscape blanket or SilcaMat™ (if installing porcelain pavers). Same as step 4 in the New Construction section.
7. Fascia Border finishing options - same as step 5 in the New Construction section.
8. Congratulations on finishing your new remodeled deck, complete with StoneDeks System™ supported outdoor paver flooring!

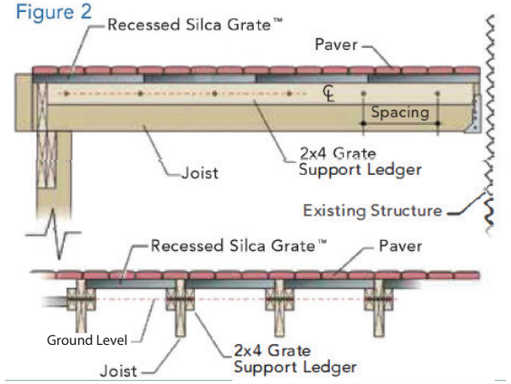
Silca Grate™ Support Ledger Attachment for Retrofit Application

Table lists screw spacing in inches to attach 2x4 ledger to each face of existing joist.

Table 2	Natural stone or manufactured concrete paver thickness				
	3/4"	1-1/4"	2"	2-1/2"	3"
Screw Spacing	18"	16"	14"	13"	12"

1. Use exterior wood screws 2-7/8" long with a minimum 0.138" thickness, single row thru ledger centerline. (C/L) Alternate location of screws when ledgers are back-to-back.
2. Joists are 16" o/c spacing.
3. Joists and ledger are Southern Pine, No. 2 grade, wet service.
4. Pavers or stone over SilcaGrate™ structural subfloor system, grate figured at 2psf dead load.
5. Live load = 40psf.
6. Paver or stone dead loads based on material weight of 150 pcf.
7. Deflection criteria: Live Load = L/360, Dead Load = L/240.

Figure 2



For more complete information on installation methods, visit our website or contact us.
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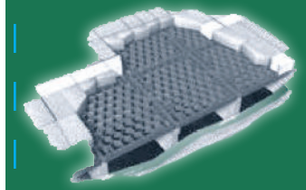
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Research Report to meet code requirements. Copyright 2021. All rights reserved.

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Silca Grate™ INSTALLATION GUIDE

TRANSFORMING WOOD DECKS TO STONEDEKS SINCE 2007



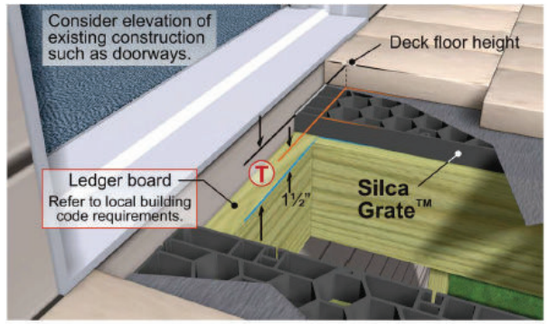
A BETTER WAY TO BUILD A DECK

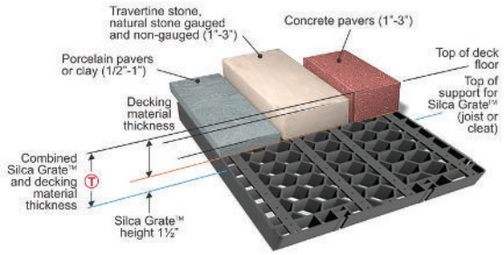


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New Deck Construction Instructions

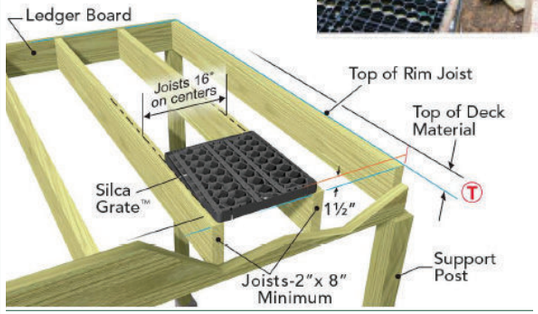
1. Determine the desired elevation of your finished deck floor. There are several important factors to consider during this step, including doorway features and the thickness of your planned outdoor paver floor materials. (i.e. natural stone, porcelain pavers, concrete pavers, or brick pavers).
NOTE: The SilcaGrate™ is 1-1/2" thick.





2. Build your substructure up to the necessary height with 16" on-center floor joists.
NOTE: Deck construction must be in compliance with your state and local codes. Refer to Table 1 at the end of this section. I.C.C. ESR 3748 verifies that SilcaGrate™ meets code requirements.





3. Screw down the SilcaGrates™ to the floor joists using four #9 3" deck screws per grate.

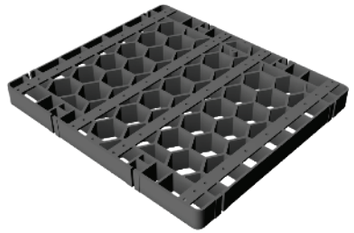


It is recommended that the SilcaGrates™ be staggered to achieve maximum strength and stability.

To accomplish this, start one row of SilcaGrates™ with a full grate, and start the next row with a Silca Starter Grate or a SilcaGrate™ cut in half.



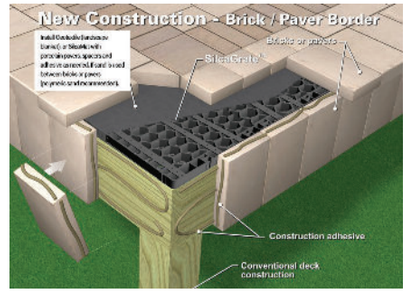
Install the SilcaGrate™ with the reinforcement straps up to provide more surface area for adhesive and spacers.



4. Install geotextile/landscape blanket for concrete pavers or natural stone, or use SilcaMat™ (if installing porcelain pavers). (This step is only needed if you plan to use polymeric sand between the joints of your bricks or pavers).



5. Fascia Border finishing options
Apply pavers or veneer with adhesive and bullnose pavers on surface over edge. Create a wall using marine plywood and pavers or veneer and adhesive with paver bullnosed over edge. Use fascia board attached to the rim joist to retain pavers. Go to www.stonedeks.com or contact us at sales@stonedeks.com or 330.821.1585 for more detailed information.







6. Install your new outdoor paver floor.

7. Congratulations on finishing your new deck, complete with StoneDeks System-supported outdoor paver flooring! Now your pool, deck, patio, stairs and porch can all match.





Table to determine deck component sizes
(full tables are available at www.stonedeks.com).

Use Table 1 directly below to determine the required joist size based on the chosen paver thickness and the span (or length "L") of your deck joists - see Figure 1 below the table.

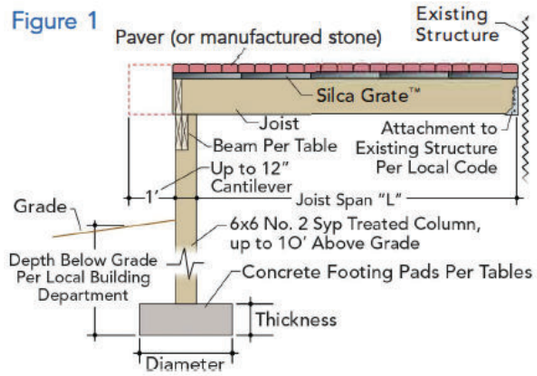
Maximum Joist spans "L"
when using pavers 3/4" - 3" thickness

Table 1

	Natural stone or manufactured concrete paver thickness				
Joist Size	3/4"	1-1/4"	2"	2-1/2"	3"
2 x 6	8'-9"	8'-5"	7'-10"	7'-5"	7'-2"
2 x 8	11'-4"	10'-9"	10'-0"	9'-6"	9'-2"
2 x 10	13'-7"	12'-10"	11'-11"	11'-4"	10'-11"
2 x 12	16'-0"	15'-2"	13'-4"	13'-4"	12'-10"

1. Joists are 16" o/c spacing.
2. Joists are Southern Pine No.2 grade, wet service.
3. Pavers or stone over SilcaGrate™ structural subfloor system, Grate figured at 2psf dead load.
4. Live Load = 40psf.
5. Paver or stone dead loads based on material weight of 150pcf.
6. Deflection criteria: Live Load = U360, Dead Load = U240.
7. Joists may be cantilevered up to 12".

Figure 1



Remember: It is important that the surface of the joists are flat. The deck can be sloped for drainage, but there should be no variation across the surface of the joists.

Always Comply With Local Building Codes.

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