



StoneDeck™

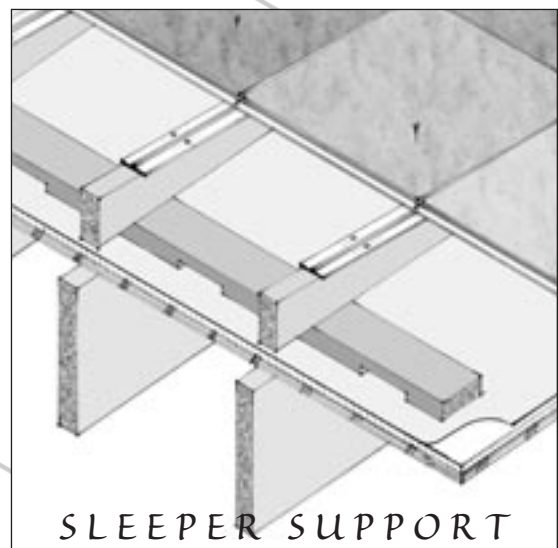
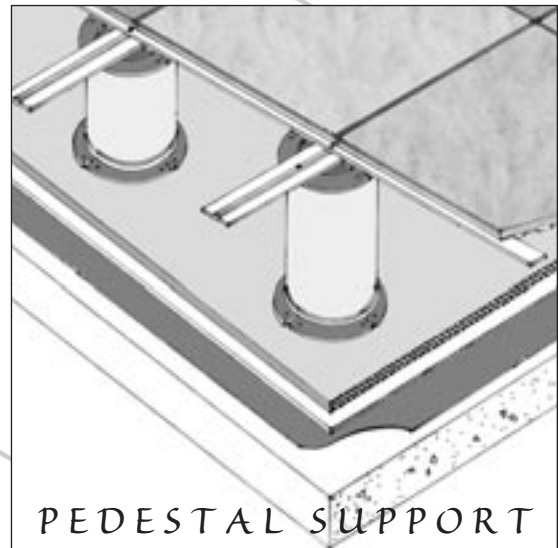
SUPPLEMENTAL INSTALLATION GUIDE

Installation Over Sloped Waterproof Membranes

APPLICATIONS FOR:

- Plazas
- Patios
- Roof Decks
- Public / Residential

- Natural Stone
- Structurally Sound
- Free Draining
- Low Maintenance
- Easy to Install

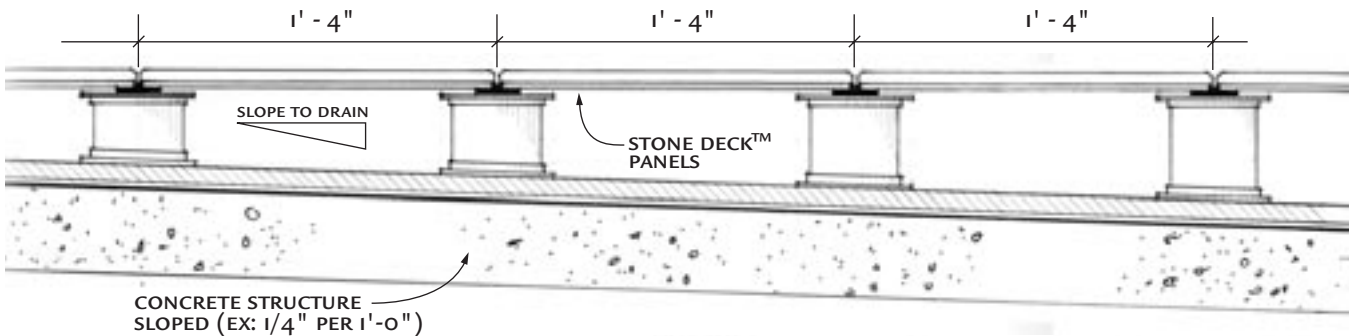
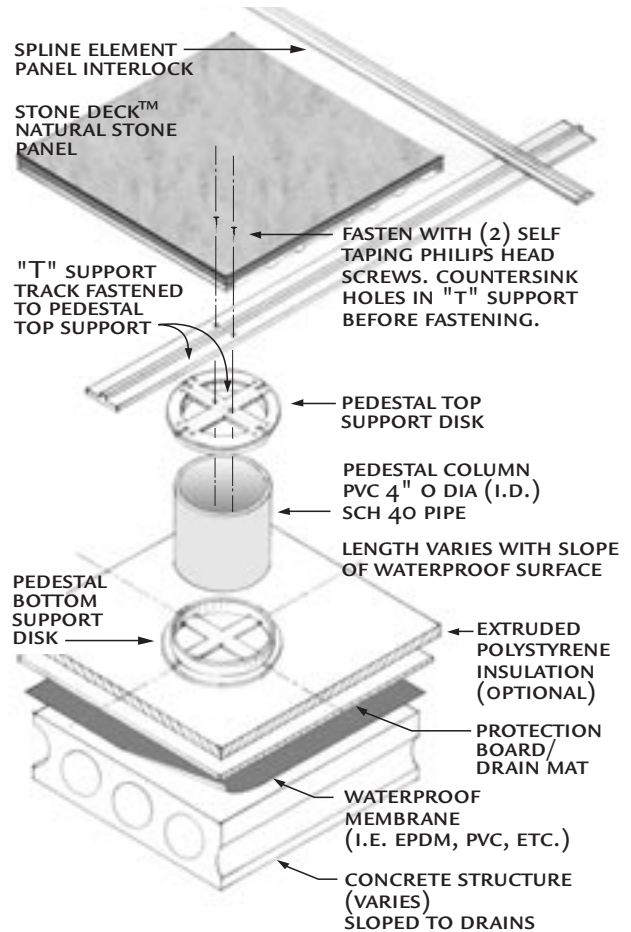


PEDESTAL SUPPORT SYSTEM

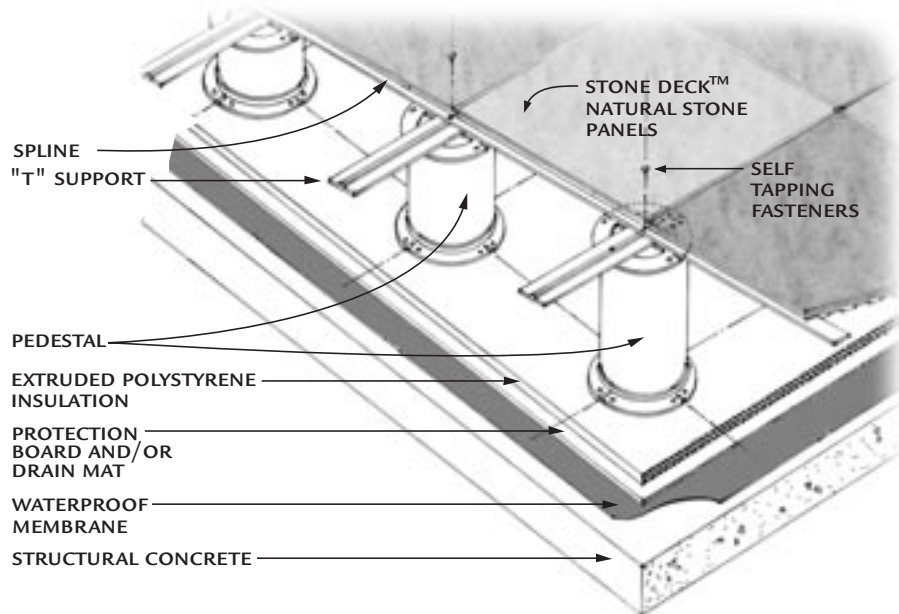
For applications of building StoneDeck™ over sloped waterproof membranes, optional installation methods are available to support the StoneDeck™ system.

The “Pedestal Support” method incorporates the use of nondeteriorating PVC columns and support disks, centered at the 1’-4” o.c. intersections of the StoneDeck™ panels. The columns are cut to varying heights as required to meet the sloping structure and to create a level deck surface above. The pedestals provide for uninterrupted drainage of surface water to drains or scuppers.

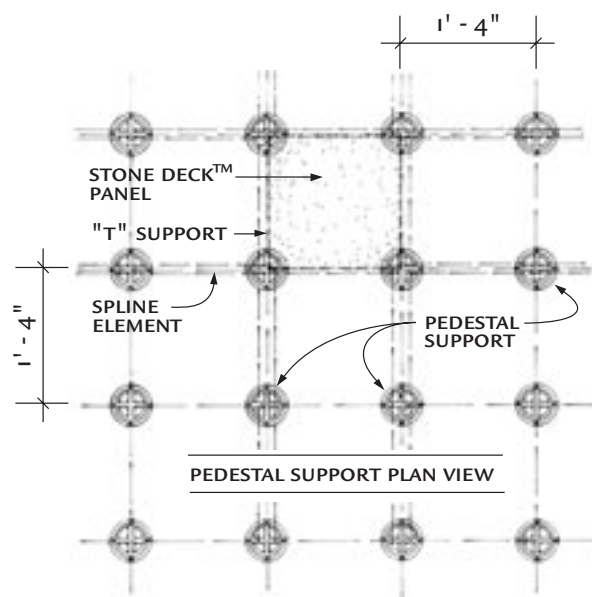
This system provides a precise method to distribute deck loads and support for the StoneDeck™ system on commercial and residential projects.



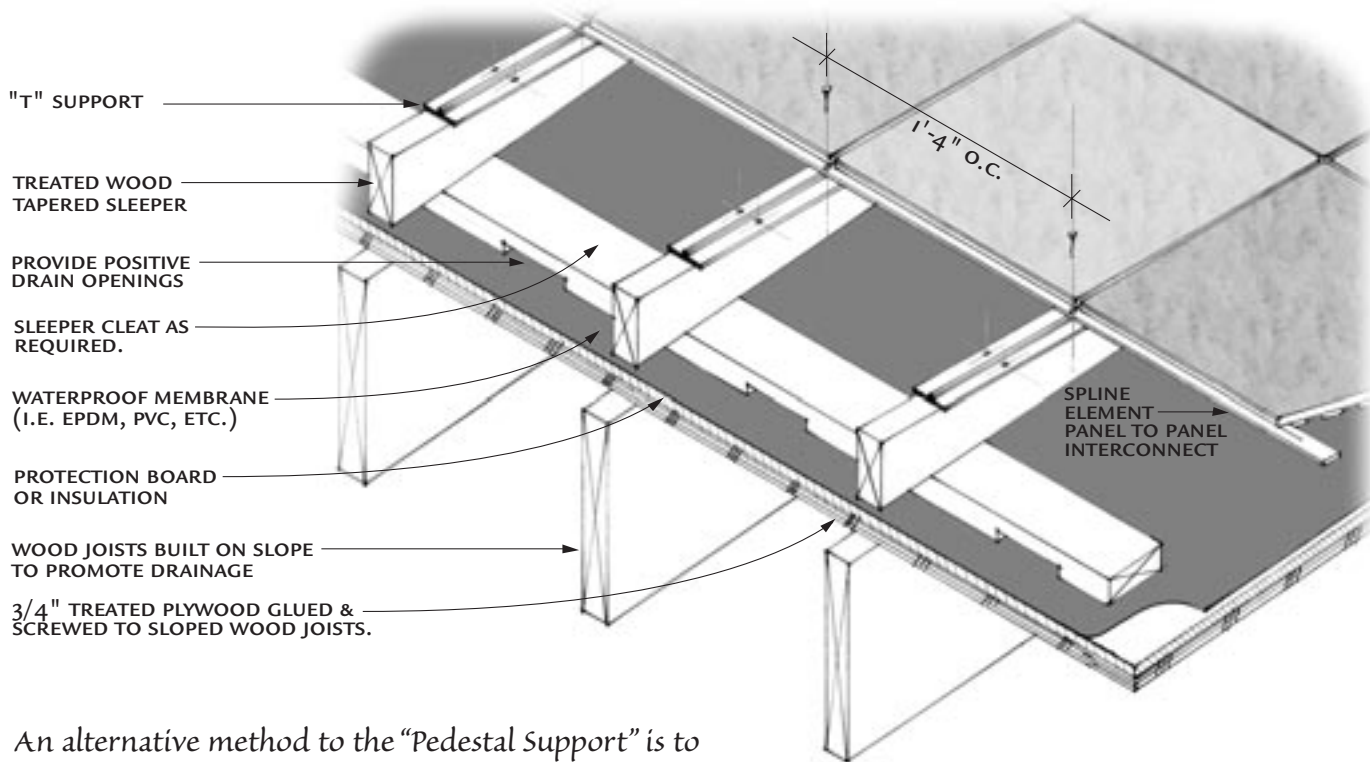
The “T” Support tracks span between the columns and are fastened at each column top disk with (2) screws. The remaining installation follows the standard StoneDeck™ procedure where panels are placed in the correct orientation to span between “T” Supports and are locked in place with the “Spline” elements.



The Pedestal Supports are located in a plan view pattern at 1'-4" o.c. The base support disks rest on insulation board (optional) or protection board over the waterproof membrane (EPDM, PVC, Equal).



WOOD SLEEPER SUPPORT SYSTEM

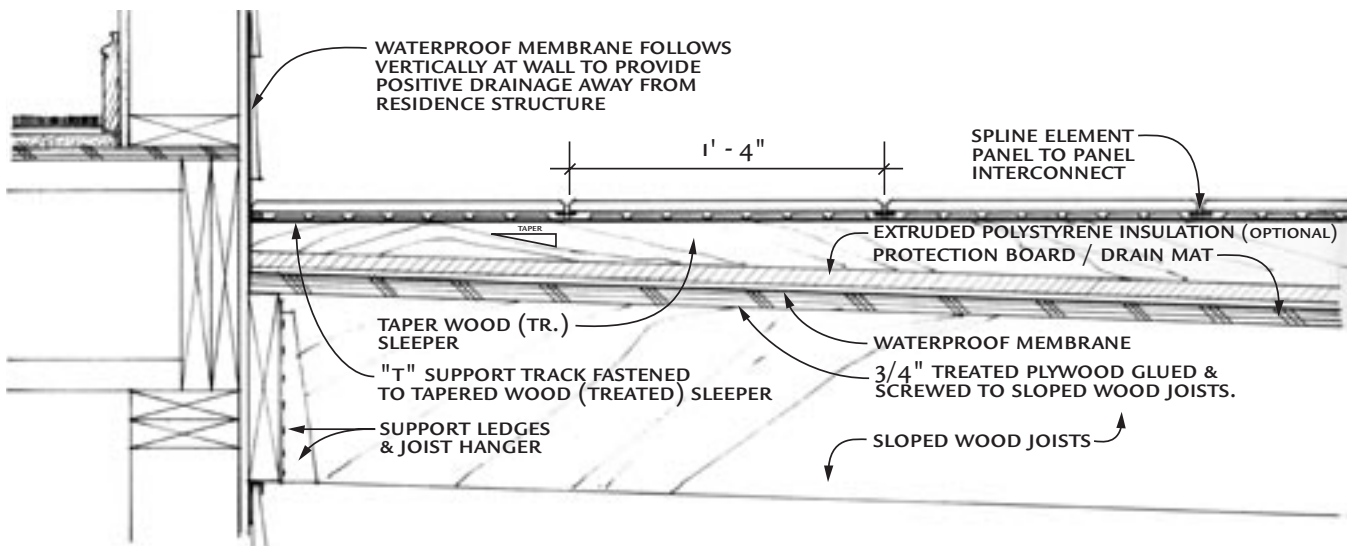


An alternative method to the "Pedestal Support" is to use a system of tapered wood (treated) sleepers over a sloped waterproof structure. The sleepers are cut so that the bottom surface matches the slope condition, and are installed at 1'-4" o.c.

Additional spacer cleats may be required to support the sleepers if the slope height exceeds the sleeper material height. Minimal material thickness should be 2" x () (example: 2" x 4", 2" x 6", etc.).

Once the sleepers are in place and blocked to hold their position, the StoneDeck™ installation can proceed in the standard method of fastening the "T" Support tracks to the wood sleepers and then proceeding to lock the panels in place with the "Spline" element.

Deck edge conditions/details may vary for each site. To allow the flow of water to drains, scuppers or gutters, specific detailing of the edge conditions should be considered for final aesthetic results.



The direction of drainage may vary across the sloped structure. To accommodate varying conditions, the sleepers can be arranged to taper in different orientations. If construction conditions require this, it is important to maintain the 1'-4" o.c. spacing of the sleepers to meet the panel installation requirements.

To provide a continuous path for drainage, it is important to incorporate openings in the sleeper or cleat members as necessary to relieve water build-up.

■ STRUCTURAL ANALYSIS

3 Point Flexural Test (Compression Mode) performed at:

Composite Materials Technology Center · Winona State University · July 31, 2002

SAMPLE	Width (in)	Depth (in)	Max. Load (lbf)	Displacement (in)
1	16"	0.8125	3128	0.139
2	16"	0.8125	3800	0.156
3	16"	0.8125	3289	0.129
MEAN	16"	0.8125	3406	0.141

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