



skydeck

usa

pavers . pedestals . green roof

SKYJACK Adjustable Pedestal System

Taking the P.I.A. out of paver installs

Our 37 years of roofing experience led us to design the simplest, easiest, fastest installing pedestal system on the market.

Removeable **spacer tabs** don't break off like P.I.A. pedestals, making installation quicker, more cost effective and getting you onto the next project sooner.



Innovative

No Cussing Required!

Smooth sliding, self-leveling head automatically **accommodates up to 7% slope** without sticking - so they actually do what they're supposed to... what a concept!



Wide pedestal head with several holes to **adjust removable spacer tabs to any project needs**, including concrete or porcelain pavers and decking.



Screw ring with **easy grip handles** for rapid height regulation without the hassle of keys.

Value Engineered

Uniquely designed to eliminate the P.I.A. saving you time and money



Wide base for **stabilization**. Flat sides allow them to be installed close to walls to support narrow cut pavers. We're ALL ABOUT 'DAT BASE, NO TROUBLE.

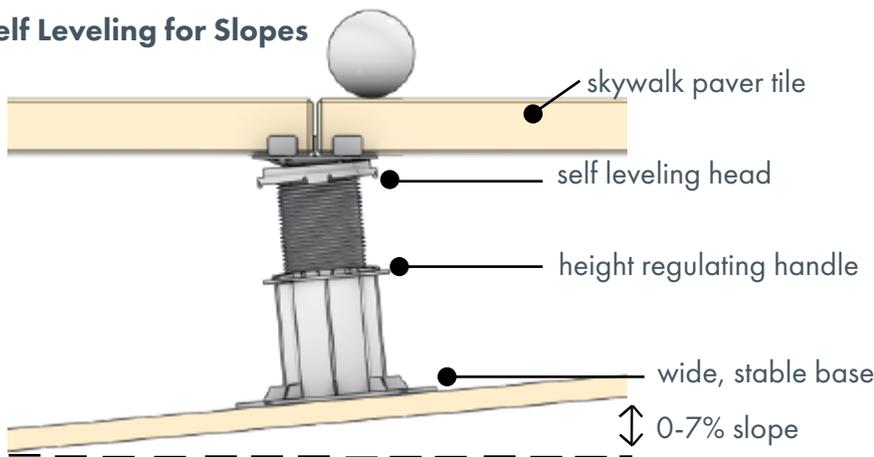
SKYJACK Specs & Pedestal Options

The **SKYJACK** adjustable pedestal system by skydeck usa meets architectural specifications for all pedestal projects **below market pricing**

Type of Pedestal	Height		Central max load
	from	to	
 SD01 - SD02	1.25"	2.75"	up to 1000 lbs
SD03 or SD04	2.75"	8.5"	up to 1000 lbs
SD04 + up to 4 extenders	8.5"	24"	up to 1000 lbs

Load Capacity* skyjack pedestals are resistant to a load pressure of 1000lbs, exerted over the entire surface, regardless of the height and the adjustment of the pedestal (within permissible range)

Self Leveling for Slopes



Hot and Cold Temperature Resistant from -12° to 212 °F

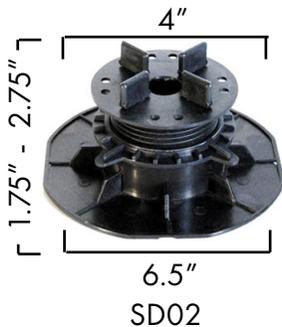
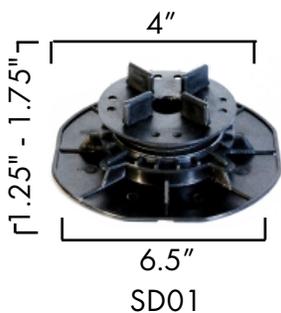


skydeck usa is a green company, using earth friendly recyclable materials

Size Options for Every Project Need

* Multiple 4" skydeck extender sleeves can be added to achieve heights up to 24"

** Compatible with any decking or paver





Easy Installation Procedure

NoP.I.A...Period.

Pedestal Tips:

- Shims can be used to correct small height changes in the pavers or decking



- To estimate the number of pedestals needed for a job, multiply the total # of pavers needed by .3. Be sure to calculate extra for unique designs and circumstances.
- Tabs can be twisted or placed in different holes for use with decking supports as shown below.



- A laser level is the fastest way to ensure a perfectly level patio surface

SKYJACK Pedestal Assembly:

**When using optional self leveling head, click two parts together

optional self leveling head



click



pedestal head

#1

snap spacers onto optional self leveling head



OR

spacer tabs

snap spacers onto pedestal head

height regulator



twist

#2

Twist easy grip handles to attain desired pedestal height

twist

4" height extender



*Optional: Add 4" spacer(s) for achieving heights over 8"

#3

Slide onto base

base





Intended Uses:

SKYJACK adjustable pedestals are used to support raised rooftop terraces to create level patios on top of roofs that slope up to 7% taking once wasted rooftop space and making it a showcase space for a building. SKYJACK adjustable pedestals can also help eliminate more expensive patio supports like steel or wood frames with a weight bearing capacity of 2,150 lbs. per pedestal.

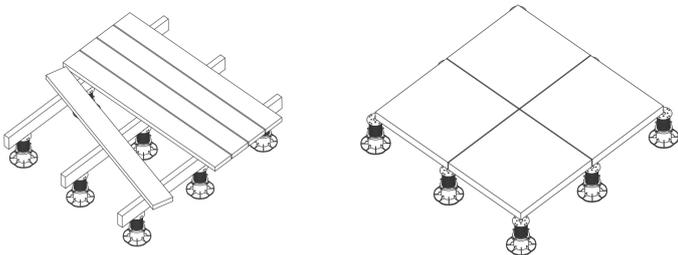
Application:

SKYJACK pedestals are uniquely designed to achieve perfectly level patios with the easy twist of our screw ring. Set up your laser level, place pavers or decking on top of the pedestals and twist until level. Simple, easy and perfect results every time.

Calculating # of Pedestals

Use the following formula to estimate the approximate # of pedestals used:

1. Calculate the total # of pavers (ie - 46 pavers)
2. Calculate the total # of pavers needed around the perimeter and divide by the width of the paver (typically 2') (ie - 26 - 2'x2' pavers, so 26/2 = 13)
3. Add the totals together (46 + 13 = 59)
4. Add 5% for waste (59 * .05 = 2.95)
5. 59 + 3 = 62 pedestals needed

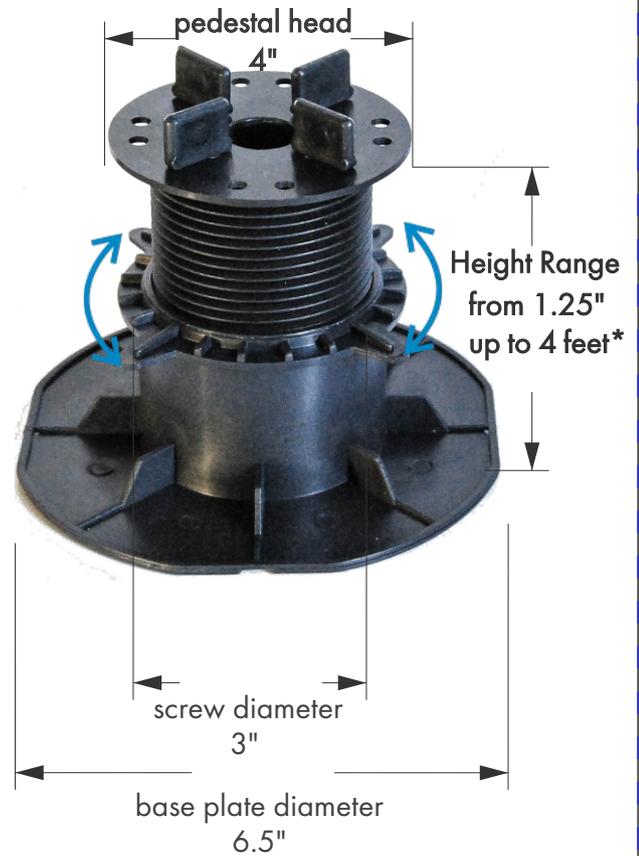


**SKYJACK pedestals can be used with any size or shaped materials including decking and concrete pavers. Simply remove spacer tabs and re-position in the holes that provide appropriate spacing



SD01 1.2-1.75" SD02 1.75-2.75" SD03 2.75-4.75" SD04 4.75-8.5" SD04 + SDES

**SKYJACK adjustable pedestal system
by skydeck usa**



- 1 wide, stable base
- 2 screw ring for height adjustment
- 3 head with screw
- 4 removable spacer tabs

Material: Fully Recyclable PolyPropylene

Temp. Range:
-12°F - 212°F

Weight Capacity:
2,150 lbs / pedestal

Atmospheric Conditions:
Resistant to UV Radiance, Aging and Decay

* Pedestal heights of up to 4' can be achieved using the SKYWALK Sky Heights Reinforcement System. Contact us for details.

SECTION 07 76 00

ROOF PEDESTAL PAVER SYSTEM

Edit entire master to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences within brackets [_____] reflect a choice to be made regarding inclusion or exclusion of a particular item or statement. This section may include performance, proprietary and descriptive type specifications. Edit to avoid conflicting requirements. Editor notes to guide the specifier are included between lines of asterisks to assist in choices to be made. Remove these notes before final printing of specification.

This guide specification is written around the Construction Specifications Institute (CSI) Section Format standards.

PART 1: GENERAL

1.1 SUMMARY

A. RELATED DOCUMENTS:

1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specifications, apply to this section.

B. SECTION INCLUDES:

1. Rooftop Pavers/Tiles
2. Adjustable Pedestal Supports

C. RELATED SECTIONS:

1. Section 04 22 00 – Concrete Unit Masonry
2. Section 04 40 00 – Stone Assemblies
3. Section 61 50 00 – Wood Decking
4. Section 07 33 63 – Vegetated Roof System
5. Section 07 55 00 – Membrane Roofing
6. Section 09 69 00 – Access Flooring

1.2 REFERENCES

A. Standards for Pedestal Paver Systems:

1. ASTM C 67 – Freeze Thaw
2. ASTM C 140 – Compressive Strength
3. ASTM C 140 – Water Absorption
4. ASTM C 293 – Flexural Strength

1.3 SUBMITTALS

- A. Shop Drawings: Submit scaled shop drawings including plan of installation area, layout of all paver and pedestal areas, starting point and elevations, and construction details at critical terminations of pedestal paver system with adjacent construction. Include manufacturer's literature completely describing all components of the pedestal paver systems and giving detailed installation recommendations and instructions.

- B. Product data for pedestal paver system, including all components with descriptive published data indicating characteristics and limitations.
- C. Samples:
 - a. Architectural Pavers: Submit samples for type, color and texture required.
 - b. Pedestals: Submit samples of each pedestal component.
- D. Delivery, storage and handling requirements and recommendations
- E. Certifications: Written submittal by manufacturer indicating that installer is certified as qualified to perform work of this Section.
- F. Closeout Submittals:
 - 1. Warranty: Submit manufacturer warranty and ensure Owner's name is registered with manufacturer.

1.4 QUALITY ASSURANCE

- A. Single Source Responsibility: Manufacturer shall provide the following:
 - 1. Rooftop Pavers
 - 2. Pedestal Support System
- B. There shall be no deviation from this specification or the drawings. Installer assumes liability for any deviations from specifications and/or drawings.
- C. Installer Qualifications: Certified as pre-approved and qualified by manufacturer to install work of this section.
- D. Preconstruction Testing: Conduct to verify following:
 - 1. Membrane Roofing Manufacturer: Conduct inspection by certified manufacturer's technical representative to verify that the in-place membrane roofing system meets the manufacturer's specifications, is waterproof, and is approved for installation of the pedestal paver system. Verify membrane protection layer (if required) and other requirements to maintain warranty provisions. A copy of the inspection report shall be submitted to the pedestal paver manufacturer prior to installation of the pedestal paver system.
 - 2. Membrane Integrity Test: The roof area or portions thereof shall be leak tested by means of electronic testing or flood testing for a period of 48 hours to check the integrity of the membrane installation. Membrane integrity test shall be attested in writing to pedestal paver manufacturer by the roof installer prior to the pedestal paver system being installed.

1.5 DELIVERY, HANDLING, STORAGE, PROTECTION

- A. Deliver materials to project site in the original packaging with the manufacture's labels intact and legible
- B. Inspect all materials to ensure they are undamaged and in good condition
- C. Store materials in a clean, dry and protected location.
- D. Ensure waterproofing membrane is not damaged while delivering, storing or handling material
- E. Take measures to locate and spread loads in manner to not exceed load capacity of roof deck.
- F. Store paver and pedestal components and materials over plywood panels or protective sheeting. Do not allow products, grit, debris, and pedestrian traffic on unprotected roofing.
- G. During installation, protect the roof deck and membranes with appropriate material such as plywood sheeting. Never scrape or puncture membrane protection layer or membranes. Keep roof surfaces free of soil, grit, or debris at all times.

1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, precipitation) within limits recommended by manufacturer for optimum results. Do not install products in any unsafe condition, inclement weather or under environmental conditions outside manufacturer's recommended limits.
- B. Deck supports specified are to be used with pedestrian traffic only. All four sides of deck system must restrain and contain the decking panels with perimeter blocking or walls. Decking panels must not be allowed to move laterally.
- C. All membrane waterproofing and protection board surfaces to receive pedestals must be frost/ice free, and free of dirt, oil, debris or any rough foreign matter, which may impair the waterproofing / roofing manufacturers guarantee or protection requirements.
- D. Installation or anticipated installation of additional heavy roof top feature such as, planters, benches, water features, hot tubs, industrial equipment etc. must be supported directly by additional pedestals that are in addition to the main deck paver pedestal system. Failure to adequately support the additional weight of any such features or items may cause significant damage to the deck, underlying structure, or waterproofing.
- E. All decks shall be designed to not exceed the design capacity of the pedestal.
- F. The substrate immediately below the pedestal supports shall provide positive and adequate drainage in accordance with good building practice and applicable building codes.

- G. Do not install Sky Deck Pedestal Paver System over any insulation less than 60psi or with low-density polystyrene (bead board insulation).

1.7 WARRANTY

- A. Manufacturer's Warranty: Paver and pedestal system manufacturer shall warrant the materials to remain free from defects for a period of five (5) years.
- B. Contractor's Warranty: The contractor shall warrant the work to remain free from defects of labor and materials used in conjunction with their work in accordance with the general conditions for this project for a maximum period of two (2) years.

PART 2: PRODUCTS

2.1 MANUFACTURER

- A. Basis of Design: SkyDeck USA Pedestal Paver System and Components. 1197 Hoyt St. SE Grand Rapids, MI 49507. Tel: 616-308-6309 Email: ceagan@skydeckusa.com Web: www.skydeckusa.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600

2.2 MATERIALS

- A. SkyJack™ Adjustable Height and Slope Compensating Pedestals
 - 1. Typical Height Range: 0-24 inches.
 - 2. SkyHeights Pedestal Bracing System: For pedestal applications over 24 inches in height.
 - 3. Weight Bearing Design Capacity: 1000lbs/pedestal
 - 4. Spacer Tabs: 3/16 inch
 - 5. Slope Stabilization Head: Compensates for slope up to 7%
- B. SkyWalk™ Concrete Terrace Pavers
 - 1. Type: Architectural Concrete Pavers
 - 2. Color: Standard and custom colors available
 - 3. Size: As Selected
 - 4. Meet the required technical specifications:
 - a. Compressive Strength: 8,000 psi
 - b. Minimum Flexural Strength: Not less than 800 psi
 - c. Water absorption: Not to exceed 5%
 - d. Freeze Thaw: Not to exceed 1% loss of dry weight
- C. SkyWalk™ IPE Wood Deck Tiles
 - 1. Type: IPE Wood Deck Tiles
 - 2. Color: Standard and custom colors available
 - 3. Size: 18"x36"

PART 3: EXECUTION

3.1 INSPECTION

- A. Do not begin installation until substrates have been properly prepared and related work penetrating the plane of the roof is completed. Carefully inspect installed work of other trades and verify that such work is complete to the point where work of this section may properly commence. Notify the Architect in writing of the conditions detrimental to the proper and timely completion of work.
- B. Verify that substrates, membranes, and protection boards are ready for installation of pedestal and paver system.
- C. Verify that the roof deck will sustain the weight of the pedestal paver system.
- D. Verify deck dimensions elevations and pedestal heights before commencing work.

3.2 PREPARATION

- A. Convene for installation meeting at least one week before starting work of this section.
- B. Clean and prepare deck free of all debris in accordance with manufacturer's instructions.
- C. Install membrane protection layer under all pedestals if specified.
- D. Establish accurate lines, levels, and pattern.

3.3 INSTALLATION

- A. Determine starting point and layout the paver and pedestal grid layout determining where full and cut pavers will be installed.
- B. Mark perpendicular guidelines on substrate surface to ensure square layout.
- C. Install initial pavers along guidelines forming a "T" pattern.
- D. Install Pavers tightly butted into pedestals. Form even joint width determined by pedestal spacer tabs.
- E. Checks shall be made constantly for correct elevation and spacing of the installed pavers using laser level, automatic leveler, or mason's line.
- F. Slight irregularities in paver thickness and/or deck heights can be compensated for by using one or more regulation shims.
- G. Any section of paver, pedestal or protection course which is not restrained by an abutting wall or parapet must be "boxed in" by some field installed restraint.

3.4 ROUTINE MAINTENANCE AND CARE

- A. Remove and replace pavers, which are loose, chipped, broken, stained or otherwise damaged. Make sure edge restraints stay intact and are structurally sound.

- B. Remove mortar stains and all other types of soiling from exposed paver surfaces, wash and scrub clean.
- C. Efflorescence is a naturally occurring white residue or stain that is on the surface of new concrete. The residue will dissipate naturally with time.
- D. Provide final protection and maintain conditions in a manner acceptable to installation, which ensures paver work being without damage or deterioration at time of substantial completion.
- E. Joints and drains should be kept clean to protect from water back up.

4.0 WARRANTY

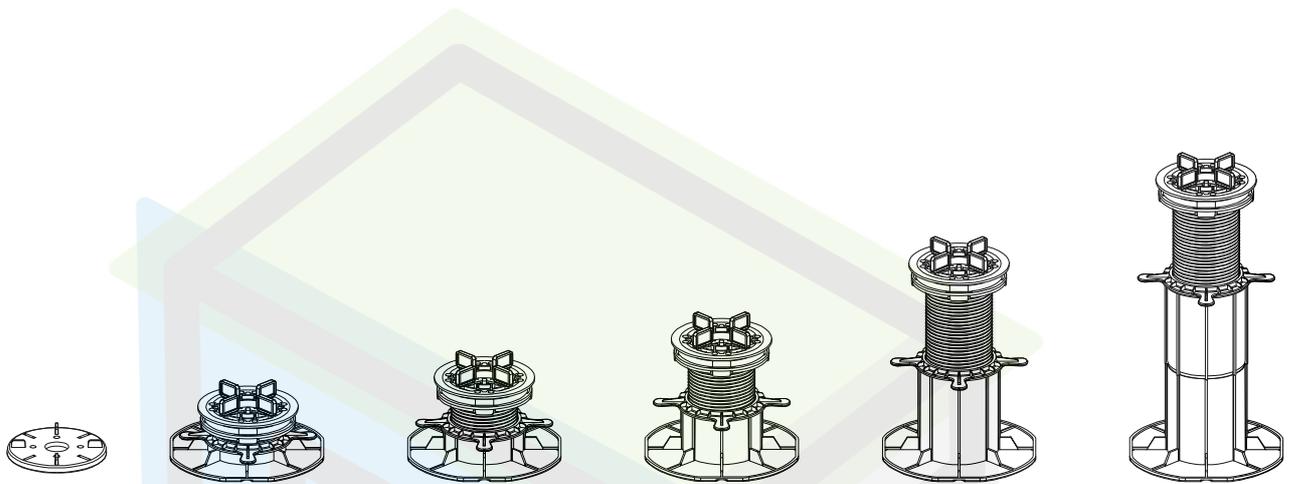
- A. SkyWalk Pavers: Limited 5 year warranty
- B. SkyJack Pedestal System: Limited 5 year warranty

END OF SECTION



SKYJACK PEDESTALS

ADJUSTABLE PEDESTAL SYSTEM by SKYDECK USA



ADJUSTABLE HEIGHT PEDESTALS

FOR ELEVATING ALL VARIETIES AND LOCATIONS OF TERRACE DECKING

skydeck usa

DETAIL MANUAL



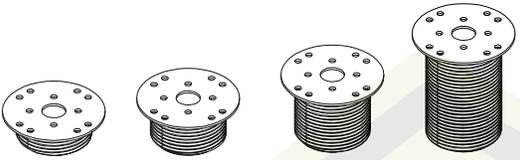
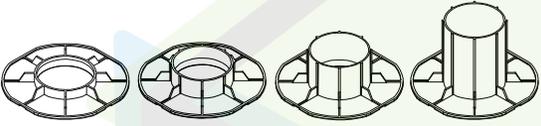
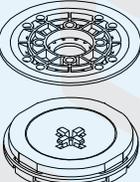
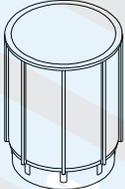
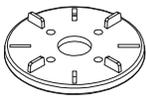
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COMPONENTS LIST

SKYJACK PEDESTALS

Adjustable Pedestal System by SKYDECK USA

www.skydeckusa.com
ceagan@skydeckusa.com

	<p>SPACER TAB 3/16"</p>	<p>SPACER TAB to appoint installation gap dimension of 3/16". Large variety of holes in the top of pedestal head allow for variety of spacing, sizes, layout and materials.</p>
	<p>SCREW SD 01 SD 02 SD 03 SD 04</p>	<p>The SCREW of SKYJACK PEDESTAL is available in four thread height ranges corresponding to four pedestals heights. The SCREW RING is threaded onto the Screw for adjustable heights and are applied to the pedestal BASE. The diameter of the upper surface head is 4 inches.</p>
	<p>BASE SD 01 SD 02 SD 03 SD 04</p>	<p>PEDESTAL BASES are available in four different sizes to provide four different pedestals heights.</p>
	<p>SCREW RING</p>	<p>SCREW RING is used to fluently and easily adjust pedestal heights. SCREW RING is screwed onto the SCREW of SKYJACK PEDESTAL and placed in pedestals BASE. SCREW RING has 4 ergonomic handles to easily adjust the height of the pedestal.</p>
	<p>SELF LEVELING HEAD LH - DOWN (VIEW) SELF LEVELING HEAD LH - UP (VIEW)</p>	<p>SELF LEVELING HEAD has upper and lower pieces. Lower piece is locked onto the top of the SCREW HEAD. The upper piece of self leveling head is then put into the lower part of the head. SELF LEVELING HEAD is for use on applications with slope. The SELF LEVELING HEAD is self changing and adjusted to level under load. Correction of slope 0-7%.</p>
	<p>EXTENDER SLEEVE ES 4"</p>	<p>EXTENDER SLEEVE is used to increase the height range of SKYJACK PEDESTALS. EXTENDER SLEEVE is placed into pedestal BASE with the SCREW and SCREW RING being applied onto the top of the sleeve. If pedestals have larger height than 20" it is recommended strengthening the extender sleeves by placing four inch PVC pipe over extenders.</p>
	<p>REGULATION SHIM</p>	<p>REGULATION SHIM can be used to help compensate small differences in height of raised terrace pavers.</p>
	<p>PEDESTAL SD 00</p>	<p>SKYJACK FIXED PEDESTAL has a fixed height of .3 inches. Skyjack Fixed Pedestals can be stacked on top each other to create varying heights. The fixed pedestal contains permanent built in tabs with a spacing of 1/8". Holes for receiving spacer tab allow the use of removable tabs with spacing of 3/16". The diameter of the upper area is 4 inches.</p>

SUMMARY OF SKYJACK PEDESTAL SYSTEM COMPONENTS



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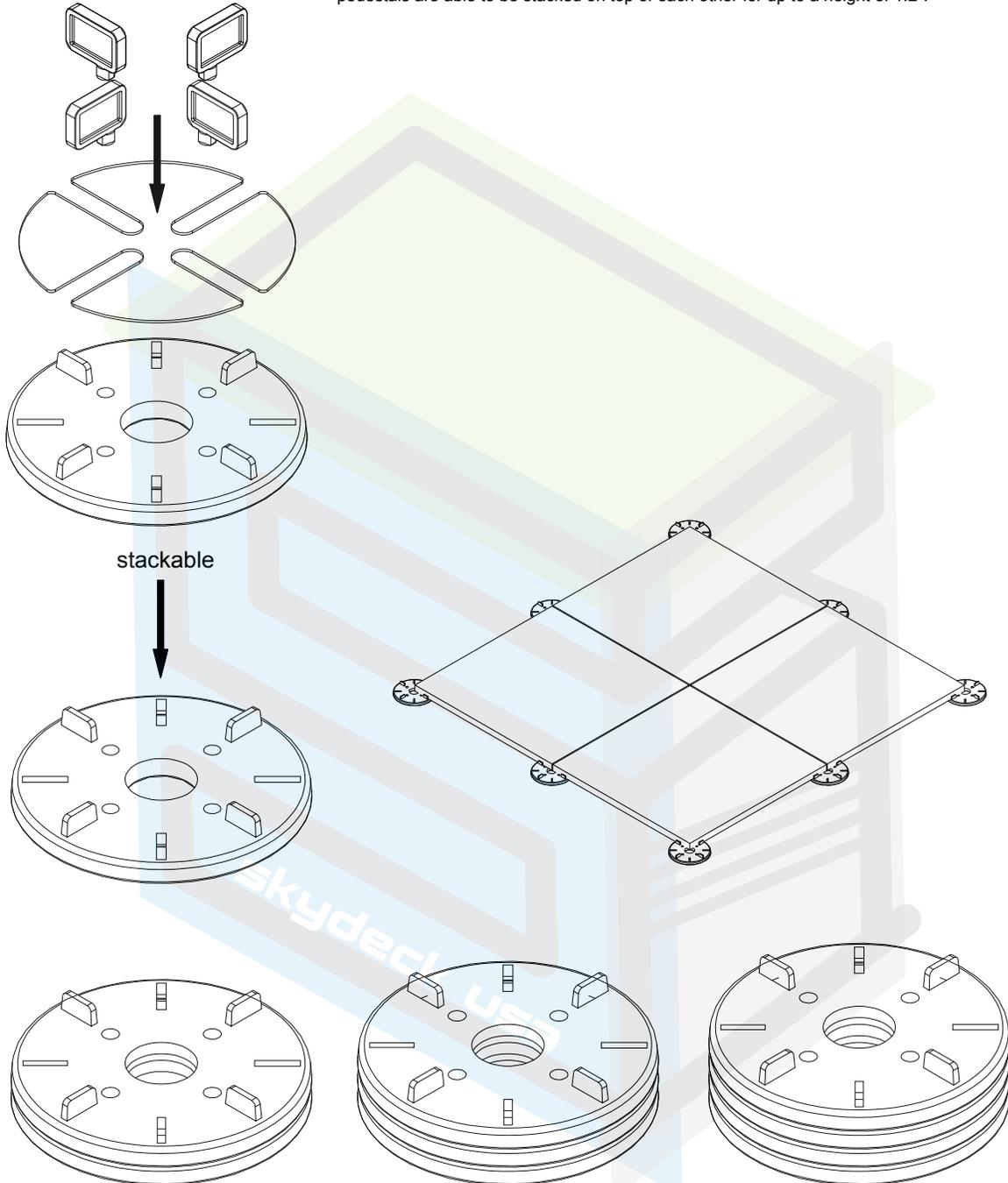
PEDESTAL SD 00

SKYJACK PEDESTALS

Adjustable Pedestal System by SKYDECK USA

www.skydeckusa.com
ceagan@skydeckusa.com

The SKYJACK FIXED PEDESTAL has one height of .3 inches. The fixed pedestal contains permanent built in tabs that have a 1/8" width. Holes for receiving spacer tabs allow for the use of 3/16" tabs. The diameter of the upper head area is 4 inches. Fixed pedestals are able to be stacked on top of each other for up to a height of 1.2".



SKYJACK FIXED PEDESTAL SD 00



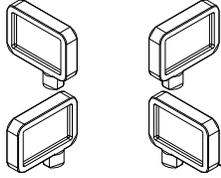
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PEDESTAL SD 01-04

SKYJACK PEDESTALS

Adjustable Pedestal System by SKYDECK USA

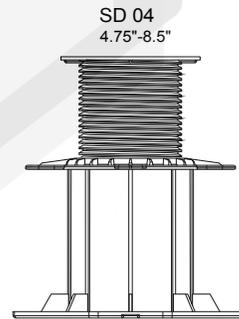
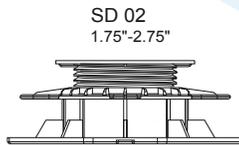
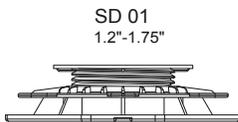
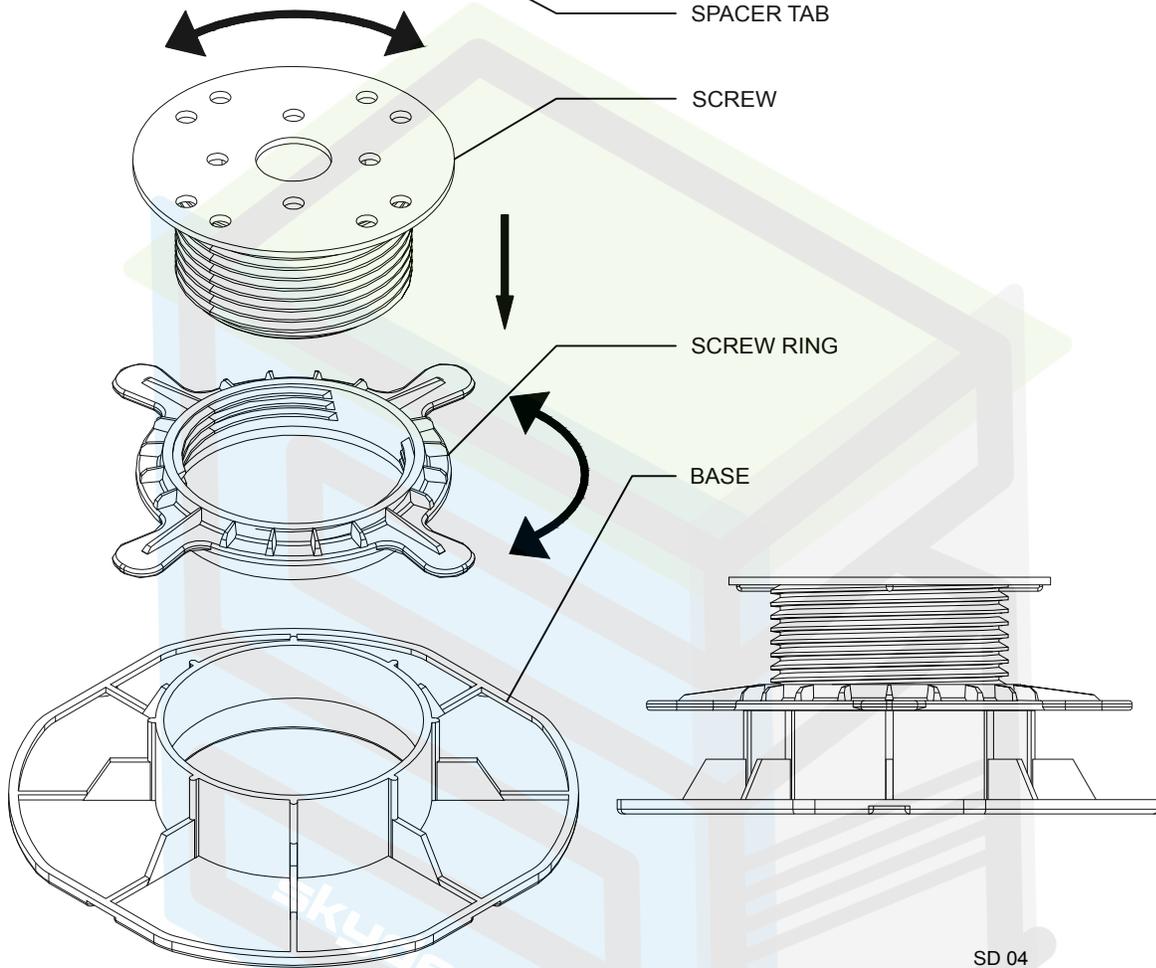
www.skydeckusa.com
ceagan@skydeckusa.com



The SKYJACK ADJUSTABLE PEDESTAL SYSTEM offers varying height ranges from 1.2" to 8.5".

Pedestal Components: BASE - SCREW RING - SCREW - SPACER TAB

SKYJACK ADJUSTABLE PEDESTALS allow for easy and efficient height adjustments and leveling of raised terraces. The width of the pedestal base provides sufficient stability for all construction.



SKYJACK ADJUSTABLE PEDESTALS SD 01-04



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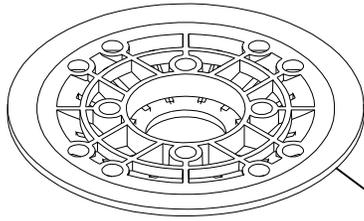
PEDESTAL SD 01-04+LH

SKYJACK PEDESTALS

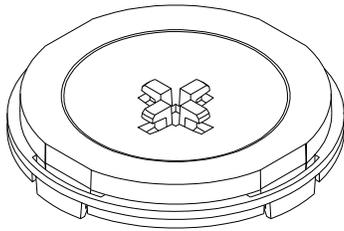
Adjustable Pedestal System by SKYDECK USA

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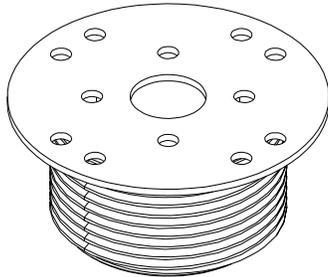
SKYJACK SELF LEVELING HEAD attaches to the top of the pedestal screw and can be utilized on all the different pedestal sizes. SKY JACK PEDESTALS with SELF LEVELING HEADS help compensate for terraces with sloped applications.



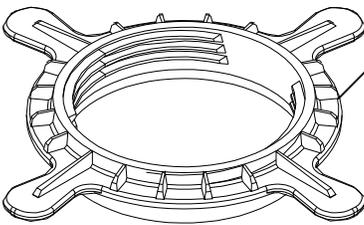
SELF LEVELING HEAD, up



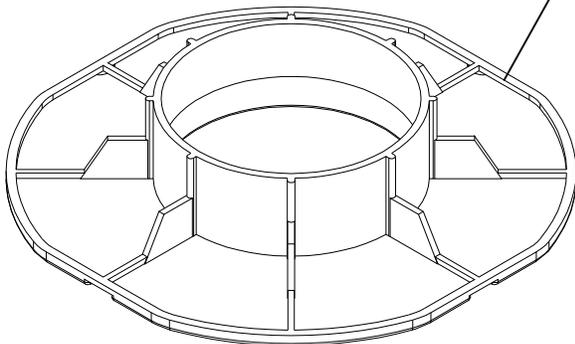
SELF LEVELING HEAD, down



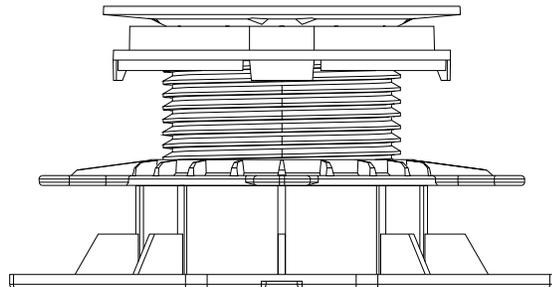
SCREW



SCREW RING



BASE



SKYJACK ADJUSTABLE PEDESTALS SD 01-04 + LH SELF LEVELING HEAD



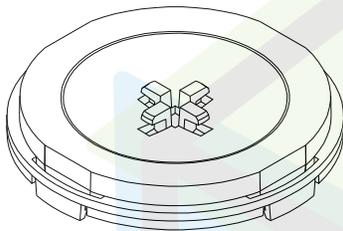
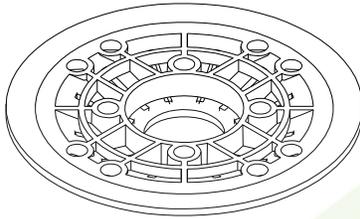
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SELF LEVELING HEAD

SKYJACK PEDESTALS

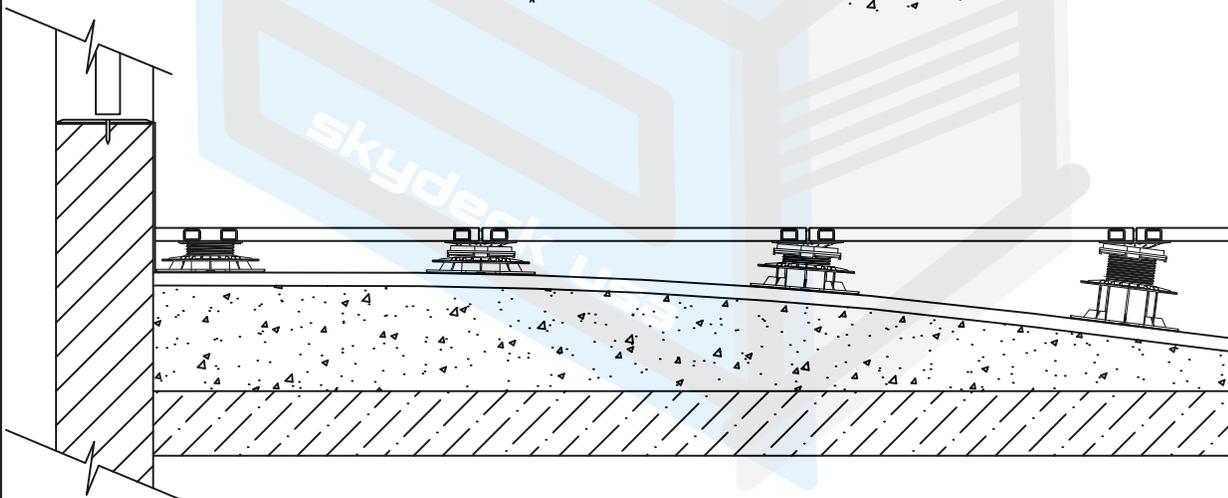
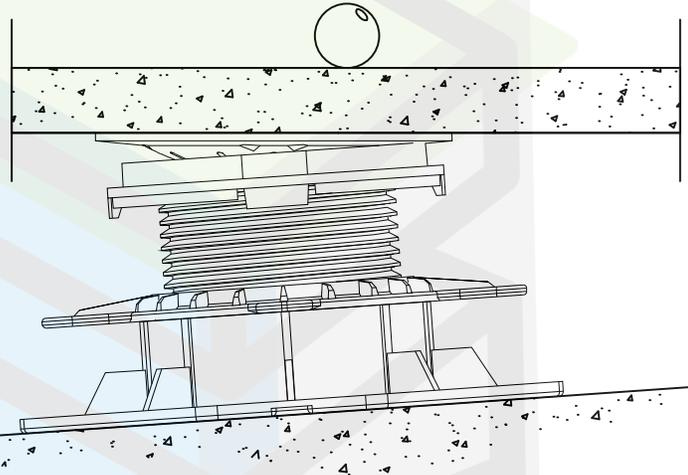
Adjustable Pedestal System by SKYDECK USA

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click!

correction of slope 0-7%



SKYJACK SELF LEVELING HEAD - LE



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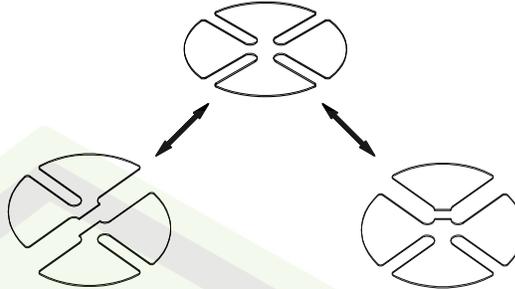
REGULATION SHIM

SKYJACK PEDESTALS

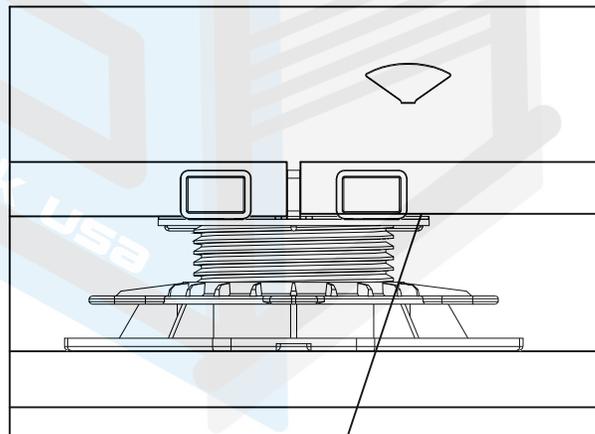
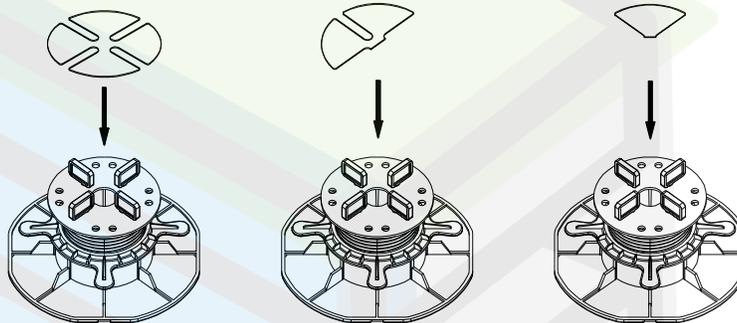
Adjustable Pedestal System by SKYDECK USA

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REGULATION SHIMS can be used to eliminate uneven pavers and to compensate small differences in height of terrace pavers.



REGULATION SHIMS can be easily cut to fit to use just halves or quarters.



REGULATION SHIM

SKYJACK REGULATION SHIM



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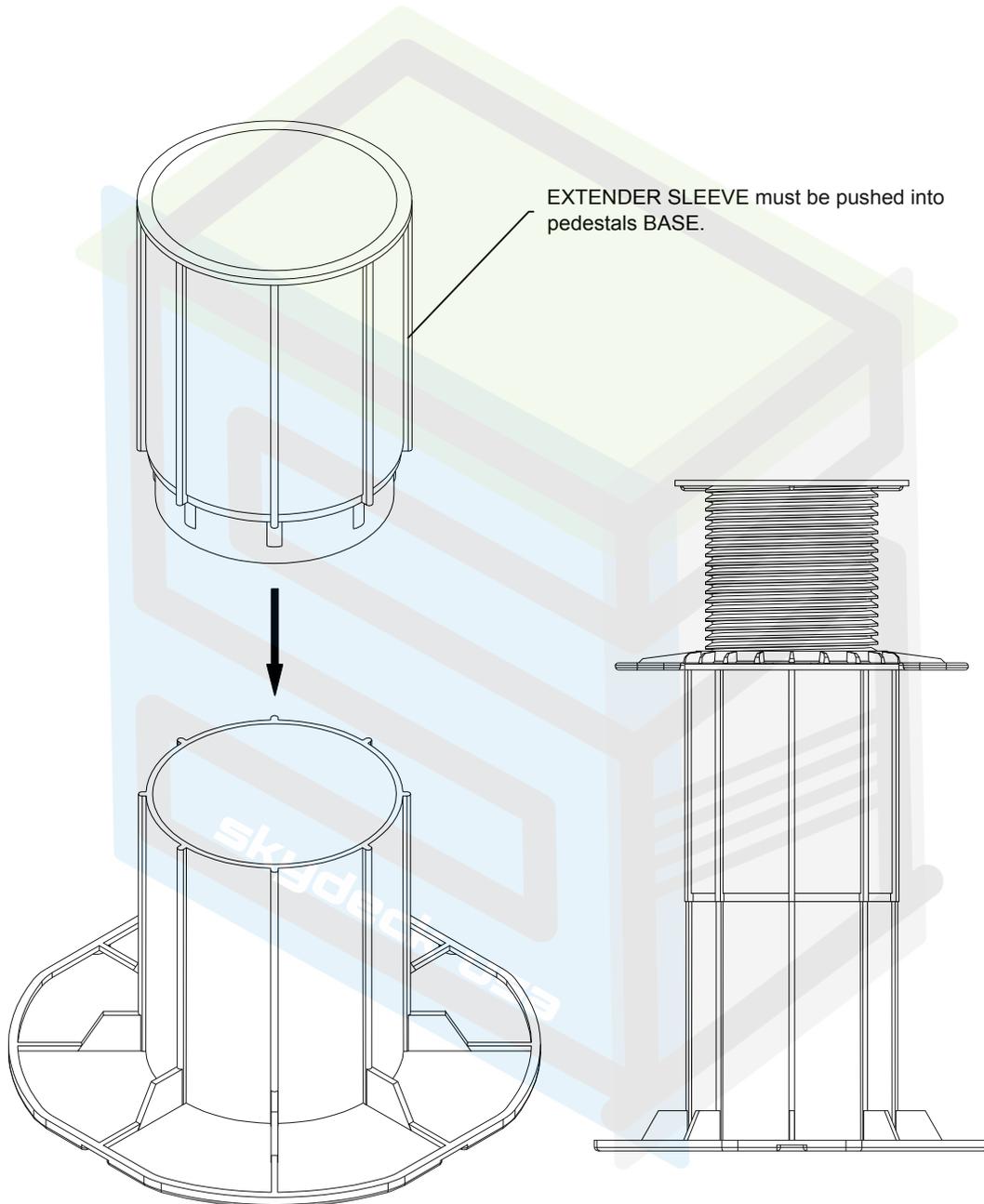
EXTENDER SLEEVE

SKYJACK PEDESTALS

Adjustable Pedestal System by SKYDECK USA

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EXTENDER SLEEVE is used to increase the height range of SKYJACK PEDESTALS. EXTENDER SLEEVE is placed in pedestal BASE and onto the top is applied the SCREW with SCREW RING. If pedestals have larger height than 20" it is recommended strengthening the spacer sleeve by placing a PVC pipe with a diameter of 4" around the outside of pedestal.



SKYJACK EXTENDER SLEEVE - ES



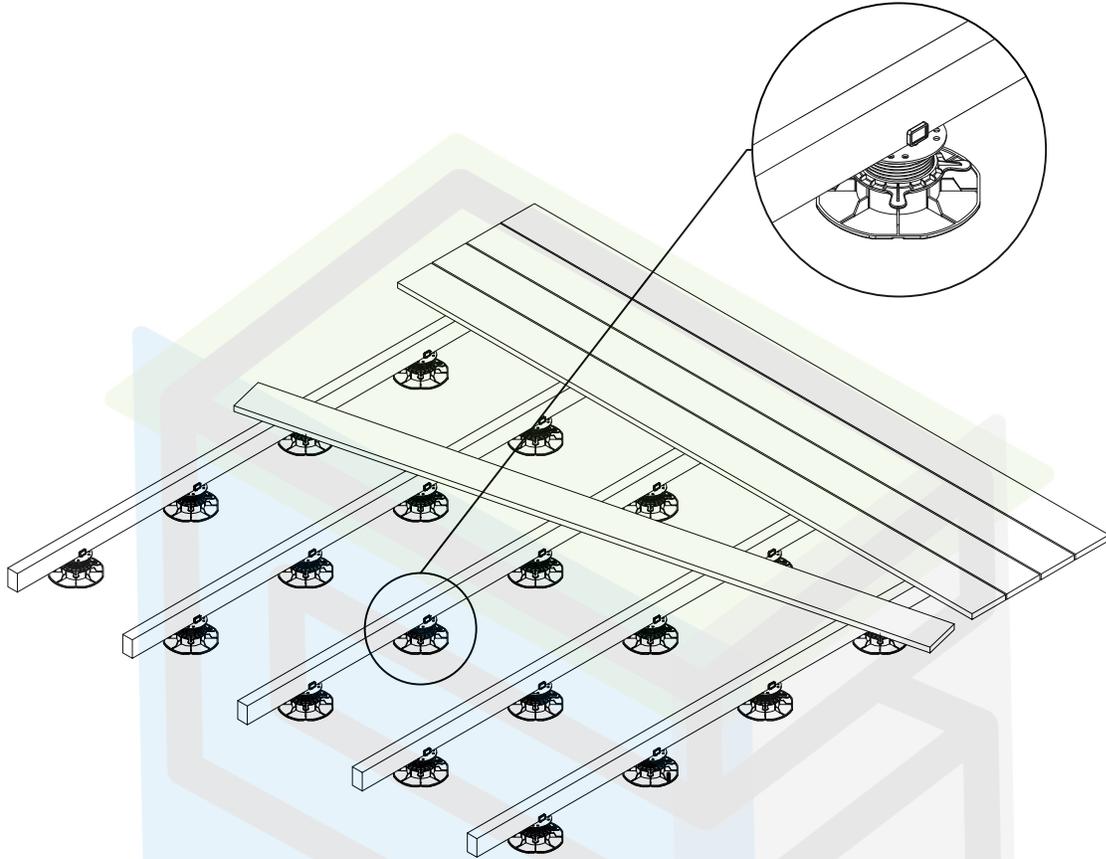
skydeck
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PEDESTAL DECKING

SKYJACK PEDESTALS

Adjustable Pedestal System by SKYDECK USA

www.skydeckusa.com
ceagan@skydeckusa.com



COMMENTS:

All dimensions and distances are approximate and are not grounds for implementation of the project due to differences in materials. The final dimensions depend on the chosen materials and their cross-sections.

COMMENTS:

1. The installation must be done accordingly with construction.
2. Unless stated drawings are without a scale
3. The decking must strictly adhere to restrictions of the terrace.
4. More information and advice on the website www.skydeckusa.com or send questions to ceagan@skydeckusa.com

SKYJACK PEDESTAL DECKING