

SAFETY

- Remember Safety is the most important Install Guideline to adhere to!
- Wear proper safety clothing and eye protection just as you would when cutting, drilling and routing wood or similar products.

CLEANING & MAINTENANCE

One of the primary benefits of owning a PolyForce installation is that it needs virtually no maintenance. Unlike wood decks or composite decks, PolyForce never needs to be sealed, stained or painted. The surface is highly resistant to stains, and a simple cleaning is all that is normally required. Normal dirt and grime can be easily cleaned with water only and a light stiff brush. Pressure washing is not required or recommended; there is the possibility of damaging the PolyForce material if too much water pressure is applied with a power washer.

ABOUT TANGENT TECHNOLOGIES

PolyForce is manufactured by Tangent Technologies—a leading manufacturer of extruded plastic lumber made from recycled plastics like those found in milk bottles.

Tangent's mission is to be the leader in recycled plastic lumber. We do this by creating solutions for our customers through new product innovations, top quality products, engineering expertise and customer service.

LIMITED WARRANTY

Tangent Technologies warrants that properly installed PolyForce plastic lumber products will not rot, splinter, decay or suffer structural damage directly from termites or fungal decay under normal use for a period of (50) years from the date of purchase (the "Warranty Period"). For full warranty information, please visit our website.

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TANGENT
POLYFORCE™
STRUCTURAL RECYCLED PLASTIC LUMBER

GENERAL INFORMATION

- Always consult local building codes prior to installing PolyForce Products for specific requirements that may apply.
- This guideline is intended to provide basic instructions for properly working with and installing the PolyForce family of products. However, both the purchaser and installer of PolyForce Products are solely responsible for understanding particular job conditions and determining the suitability of using PolyForce Products.

STORAGE & HANDLING

- Store PolyForce Products on a flat and level surface to prevent them from conforming to uneven surfaces.
- Allow product to acclimate to ambient temperatures after it is delivered to the job site. Separate and lay out individual boards for an hour or more before beginning installation.
- Avoid laying individual boards directly on hot asphalt or concrete surfaces to avoid uneven temperature conditions prior to installation.

TOOLS

- PolyForce Products can be installed using the same tools you would normally use for drilling, cutting and routing wood lumber.

FASTENERS

- For optimum results, use a high quality stainless steel screw to match the lifetime of PolyForce Products.
- Face screw two screws per joist.
- Screws need to be a minimum of 3/4" from end of each deck board and off any edge.
- No pre-drilling is required.
- PolyForce 2" x 6" - #9 or #10 screw/3" minimum length.
- PolyForce 1" x 6" - #8 or #9 screw/2.5" minimum length.

SPAN & LAYOUT CONSIDERATIONS

- PolyForce 2 x 6 Deck Board can span up to a maximum of 24" on center over the support joists; 1 x 6 boards can span a maximum of 16" on center.
- Do not overhang PolyForce product beyond two inches from underlying support.
- Be sure joists have proper solid bridging, and that the joist layout is level, to prevent visual variation of decking surface after install.

USE OF FEATURE STRIP

- Do not design the layout of the deck surface to incorporate "butt joints", random length patterns (end to end), or with mitered joints. Inconsistent and noticeable gapping could result with seasonal temperature variations.
- In instances where the layout design is longer than an individual board, incorporate a "feature strip" perpendicular to the orientation of the deck boards to be installed.

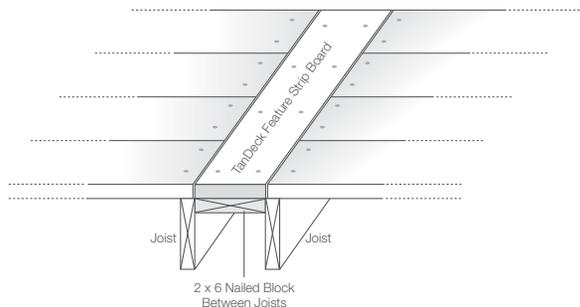
Install continuous blocking below the location where you plan to locate the feature strip.

Install & secure all deck boards first, and leave them slightly long where the feature board is to be located.

Let deck boards acclimate to the median ambient temperature.

Snap chalk line where the feature board will be located. Trim all deck boards at the same time to ensure that the contraction and expansion will be the same for all deck boards. Leave an appropriate gap between the ends of the deck boards and the feature strip (See Gap Chart).

Install feature board last and secure by face screwing in the same pattern and spacing as you have installed the deck boards.



EXPANSION & CONTRACTION

- PolyForce Products will expand and contract with variations in temperature.
- Face screw along the entire length to each joist to minimize and control expansion & contraction.
- Lay out all deck boards across joists and let acclimate to a the average temperature of the day prior to face screwing.
- Consult Gap Chart below to determine the appropriate gap required at time of installation. These gaps are required on each end of every PolyForce Board to allow for expansion and contraction in seasonal temperature changes. Proper gaps are determined based on the temperature during installation and a maximum board temperature reaching 120 deg F.

Gap each end to leave for expansion (inches)

Install Temp	Board Length				
	6 ft	12 ft	16 ft	20 ft	24 ft
90	1/16	1/8	1/8	1/8	1/8
80	1/8	1/8	3/16	3/16	3/16
70	1/8	1/8	3/16	3/16	1/4
60	3/16	3/16	3/16	1/4	1/4
50	3/16	3/16	1/4	5/16	5/16
40	3/16	3/16	1/4	5/16	3/8
30	3/16	1/4	5/16	3/8	3/8
20	3/16	1/4	5/16	3/8	7/16
0	1/4	5/16	3/8	7/16	1/2

Assumption the maximum board temperature of 120 degrees F.

***Example** - installing a 12 ft board at an install temperature of 60° F in a climate where the maximum board temperature could reach 120° F the recommend "gap" to leave on each end of the board is 3/16".