



# DECKING & DRYSPACE™

## INSTALLATION & MAINTENANCE GUIDE

| DECKING  
| RAILING

| LIGHTING  
| ACCESSORIES

| [www.timbertech.com](http://www.timbertech.com)

September 2012

## TimberTech DrySpace- The Deck Drainage System

DrySpace is a revolutionary deck drainage system that collects the water that falls between the gaps in the planks and channels it away, leaving a virtually dry and functional space below.

### Important Information

- DrySpace is designed for decks with 12" and 16" on center joist spacing. A 2x6 filler board can be installed to accommodate joist spacing up to 14" for the 12" on-center and 18" for the 16" on-center. The open space between on-center joists should not be more than 11" for the 12" on-center (Fig. A1), and no more than 15" for the 16" on-center (Fig. A2). **For decks with joist spacing greater than 14" on-center, the DrySpace kit for 16" on-center joists should be used, and for decks with joist spacing greater than 18" on-center.**
- Installation of DrySpace must stop a minimum of 3" before the Fascia. This allows water to exit the DrySpace panel and provide for ventilation.
- **Never install DrySpace over a beam.**
- DrySpace should not be spliced to achieve longer runs. Lapping the system could result in leakage.
- DrySpace should not be enclosed with a wall around the outside perimeter of the deck. It is not intended to be a water proof roof system.
- **DrySpace must be installed so that water runs away from the house.**
- Appliances, such as dryers and exhaust fans, should not be vented into the space between the deck surface and DrySpace panels.
- Installation is easiest with two people.

### DrySpace Kits

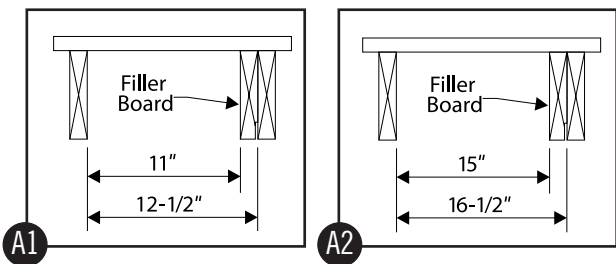
Kit	Length	Lbs. Unit	O.C. V-Panels		Combo Brackets		F-Bracket
			12"	16"	12'	16'	
12" O.C.	12'	504	6		7		1
16" O.C.	12'	546		6	7		1
16" O.C.	16'	738		6		7	1

### Also Available in Bulk

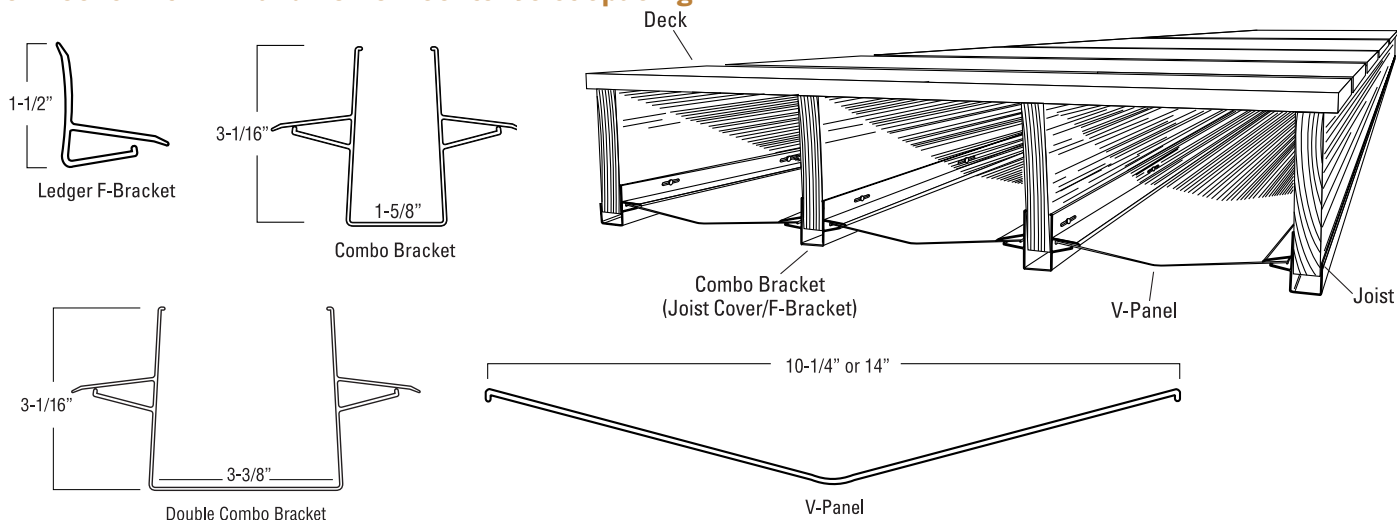
Components	Length	Qty./ Carton	Lbs./ Carton
12" O.C Panels	12'	12	53
12" O.C Panels	16'	12	70
16" O.C. Panels	12'	12	74
16" O.C. Panels	16'	12	98
Combo Brackets	12'	7	43
Combo Brackets	16'	7	57
Ledger F-Brackets	12'	20	50
Double Combo Bracket	16'	5	48

### Tools & Materials Needed

- Safety Glasses
- Square
- Utility Knife
- Pliers
- 1" Hot Dipped Galvanized Roofing Nails or 1" Deck Screws (for Treated Lumber)
- Chalk Line
- Two Putty Knives
- Butyl Rubber Tape
- Two Step Ladders
- Hammer
- Metal Snips
- Gloves
- Tin Flashing
- Tape Measure



### For Decks With 12" and 16" On-center Joist Spacing

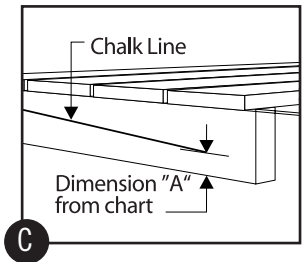


# Installation for Decks with 12" and 16" On-Center Joist Spacing

## Determine the correct installation pitch

DrySpace must be installed with a pitch of 1/8" per foot (Fig. B). Mark the correct pitch on each side of the joist with a chalk line. Measure from the bottom of the joist (Fig. C). A 16' long Combo Bracket installation will have an overall downward pitch of 2" from the house to the front of the deck. **The pitch must be directed away from the house.**

Joist Length	Dimension "A"
6'	2-1/4"
8'	2"
10'	1-3/4"
12'	1-1/2"
14'	1-1/4"
16'	1"



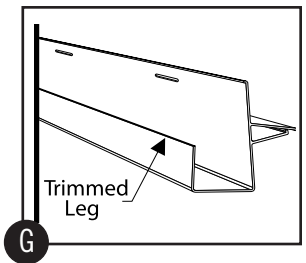
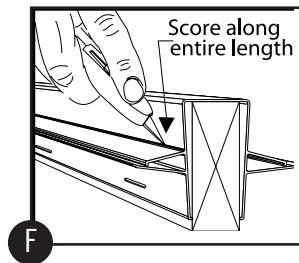
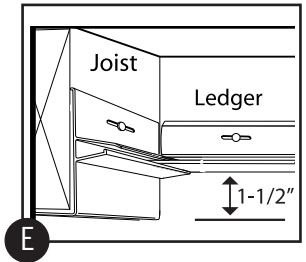
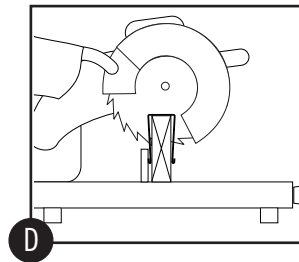
## Ledger F-Bracket installation

Cut the Ledger F-Bracket 1/4" shorter than the joist opening. Measure 1-1/2" from the bottom of the joist (Fig. E); then fasten the Ledger F-Bracket to the ledger board by driving 1" hot dipped galvanized (meet ASTM A 153 class D are acceptable) roofing nails (or deck screws) in the center of the nail slots. Do not overdrive the fastener, but make sure the Ledger F-Bracket is firmly secured.

## Install Combo Brackets

**NOTE: The Combo Bracket includes integral brackets on each side to insert and hold the V-Panel. Bracket must stop at beam.**

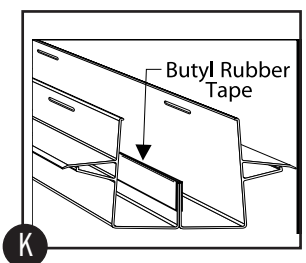
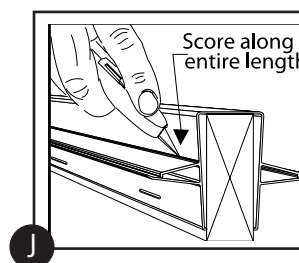
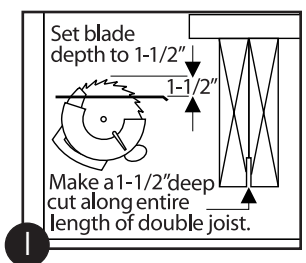
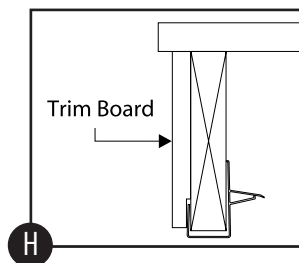
- Measure bracket length, then cut the DrySpace Combo Bracket 1" shorter than the joist length. **NOTE: To ensure a straight clean cut, place a scrap piece of 2x4 wood inside the Combo Bracket. Cut with a miter saw (Fig. D).**
- Slide each DrySpace Combo Bracket over the joist bottom. Make sure the integral V-Panel Brackets on the outside of the Combo Bracket overlap the Ledger F-Bracket (Fig. E). Slide the lower leg of the Ledger F-Bracket into the Combo Bracket outside V-Panel Brackets. Align the top edge to the pitch chalk line.
- Nail the Combo Bracket in place with 1" hot dipped galvanized (meet ASTM A 153 class D are acceptable) roofing nails (or deck screws) in the provided nail slots. Nail both sides of the Combo Bracket. **NOTE: Nail tight, but don't overdrive the nail.**
- For double joists use DrySpace Double Combo Bracket and follow steps above. Outside Combo Bracket installation.
- For the two outside deck brackets, the outside integral V-Panel Bracket must be removed. Trim what will be the outside portion of the Combo Bracket by making a score line under the V-Panel Bracket with a utility knife (Fig. F), then snap off the section with the integral V-Panel Bracket (Fig. G). Install the trimmed Combo Bracket for the inside portion of the bracket (Fig. H). This piece can be trimmed with a piece of lumber.



**NOTE: Refer to timbertech.com for installation recommendations for beams and ceiling fans.**

## Custom Double and Triple Combo Brackets

- Remove any nails or obstructions that might be in the bottom 1-3/4" of the doubled joist. Make a 1-1/2" deep saw cut along the entire bottom of the double joist (Fig. I). Trim what will be the inside leg of two Combo Brackets just below the brackets for V-Panel installation (Fig. J). **Note: Notch (with a utility knife) 1-1/2" of both Combo Bracket legs near each end. Notching the legs will help lock the combined Combo Brackets in the saw cut at both ends of the cut. Check the fit of the trimmed Combo Brackets.** Tape the two cut legs together with butyl rubber tape to create a sealed joint (Fig. K), then install into the saw cut. Make sure the Combo Brackets follow the chalk pitch line. Nail in place. **NOTE: Decks with a triple joist can be covered using the same method only with three Combo Brackets.**



- Apply butyl rubber tape (Fig. L) to the following areas:
  - 1) Corners where the F-Brackets overlap
  - 2) Along the top edge of the Ledger F-Bracket making sure to cover the F-Bracket nail slots

### V-Panel installation

- Measure, then cut each V-Panel 3" shorter than the joist to allow for drainage. **Note: To prevent water from running back up the bottom side of the panel and Combo Bracket, crimp the drainage ends of the V-Panel and Combo Bracket downward with pliers (Fig. M).**
- First install the V-Panel that will be anchored in the Ledger F-Bracket by inserting one panel edge into one of the Joist Cover's outside brackets. Next flex the panel to insert the opposite edge into the other Combo Bracket, then push the rest of the V-Panel in place.
- To insert the V-Panel into the Ledger F-Bracket, place a putty knife in each corner where the Combo Bracket's outside bracket and Ledger F-Bracket overlap (Fig. N). Place a scrap piece of 2x4 lumber against the open edge of the V-Panel and tap with a hammer. **NOTE: The 2x4 protects the V-Panel edge from damage. V-Panels must stop at the beam.**
- To collect and drain away water an optional vinyl or aluminum gutter can be installed (see Step 6 - Gutter installation).

### Faced with a smaller joist opening?

- If the joist opening (Fig. A) is less than 14-1/2", the V-Panel must be trimmed to 1/2" less than the joist opening dimension. Score one side of the V-Panel with a utility knife, then snap the extra panel width off. Should the joist opening be 12" or less, trim an equal amount of material from each side of the V-Panel.
- Use pliers to crimp the trimmed edges of the V-Panel downward every 6" along the cut line (Fig. O) to provide anchor notches when the V-Panel is installed in the Combo Bracket.

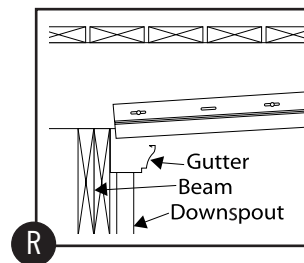
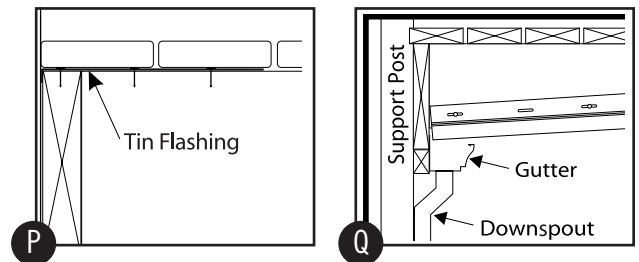
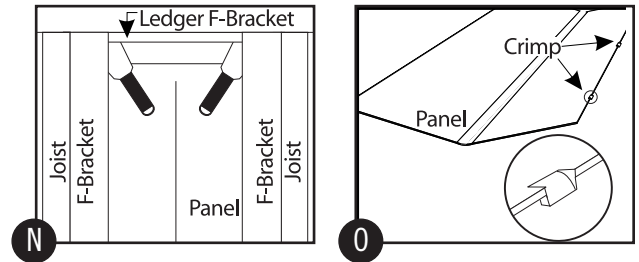
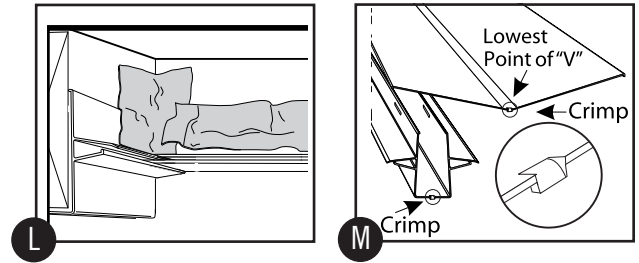
### Best practice recommendation: Install tin flashing under first deck boards

For best results, install tin flashing under the length of the two deck boards closest to the house (Fig. P). This will assure that water is pushed out into the V-Panels below. Flashing must be compatible for use with treated lumber or installed with protective barrier. Consult your local building/home improvement center.

### Gutter installation

An optional gutter and downspout can be installed with DrySpace. Gutters must be installed at support beams to collect water from the V-Panels. Each project will have different requirements. The most common installations are shown (Figs. Q and R). A gutter can also be installed along the ledger board to collect water from between the ledger board and house and between the ledger board and joist ends. Standard vinyl or aluminum gutters and downspouts can be used. These are readily available at lumberyards.

**NOTE: Gutter, downspout and accessories are not included with the DrySpace system.**



Crane Plastics Manufacturing's use of the mark DRYSPACE is with consent of DrySpace, Inc., in Cedar Rapids, Iowa. Crane Plastics Manufacturing and DrySpace Inc., are not affiliated in any way. Neither company warrants the goods or services of the other.

# 25-Year Limited Residential Warranty

## 10-Year Limited Commercial Warranty



### Alternative decking materials, rail systems, accessories and the DrySpace deck drainage system

**Statement of Warranty:** This warranty is given to the original purchaser, residential or commercial as the case may be ("Purchaser"), of TimberTech alternative decking materials, rail systems (excluding all metal baluster components of such rail systems and DeckLites, which are covered under separate warranties), and accessories (individually and collectively "Decking Materials") and the DrySpace deck drainage system ("DrySpace" and, collectively with the Decking Materials, the "TimberTech Products"). This warranty does not extend to fasteners that are not supplied by TimberTech. For purposes of this warranty, a residential Purchaser shall refer to a single-family residential homeowner and a commercial Purchaser shall refer to any Purchaser other than a single-family residential homeowner.

TimberTech Limited ("TimberTech") warrants to Purchaser that, for a period of twenty-five (25) years (Residential) & ten (10) years (Commercial) from the date of the original purchase, residential or commercial as the case may be, (the "Term"), under normal use and service conditions, that: (1) the Decking Materials will be free from material defects in workmanship and materials, and will not check, split, splinter, rot or suffer structural damage from termites or fungal decay; and (2) DrySpace will not peel, blister, pit, flake, crack or corrode as a result of manufacturing defects, or as a result of exposure to ocean air (salt spray).

All warranties are subject to the exclusions, limitations and restrictions set forth below.

**Obtaining Warranty Performance:** If Purchaser discovers a defect in the TimberTech Products during the Term, Purchaser must, within thirty (30) days from the discovery of the alleged defect but **no later than the end of the Term**, notify TimberTech in writing, at the following address:

TimberTech Limited  
894 Prairie Avenue  
Wilmington, Ohio 45177  
Attn: Claims Department

Purchaser must include in this notification proof of purchase and a statement explaining the defect. TimberTech may request additional information. After reviewing all information, TimberTech will make a determination regarding the validity of such claim. If TimberTech determines that Purchaser's claim is valid, TimberTech will, at its option, either replace the defective TimberTech Products or refund the portion of the purchase price paid by Purchaser for such defective TimberTech Products (not including the cost of its initial installation).

If a residential Purchaser makes a valid warranty claim hereunder during years eleven (11) through twenty-five (25) after the original purchase, then the residential Purchaser's recovery will be prorated as indicated below. If TimberTech is providing replacement materials, it may elect to replace the percentage listed below of boards otherwise meeting the requirements for a claim; if TimberTech is refunding the purchase price, it may elect to refund the percentage listed below of the purchase price of boards otherwise meeting the requirements for a claim.

Year of Claim	Recovery
11	80%
12	80%
13	80%
14	60%
15	60%

Year of Claim	Recovery
16	60%
17	40%
18	40%
19	40%
20	20%

Year of Claim	Recovery
21	20%
22	20%
23	10%
24	10%
25	10%

This warranty shall not cover, and TimberTech shall not be responsible for, costs and expenses incurred with respect to the removal of the defective TimberTech Products or the installation of replacement materials, including but not limited to, labor and freight. The foregoing remedies are the **SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY WARRANTY**.

**Transfer of Warranty:** This warranty may be transferred one (1) time, within the five (5) year period beginning from the date of original purchase by Purchaser, to a subsequent buyer of the property upon which the TimberTech Products were originally installed.

**Exclusions from Warranty Coverage:** TimberTech does not warrant against and is not responsible for, and no implied warranty shall be deemed to cover, any product failure, product malfunction, or damages attributable to: (1) improper installation of the TimberTech Products and/or failure to abide by TimberTech's installation guidelines, including but not limited to improper gapping; (2) use of TimberTech Products beyond normal use, or in an application not recommended by the TimberTech installation guidelines and local building codes; (3) movement, distortion, collapse or settling of the ground or the supporting structure on which the TimberTech Products are installed; (4) any act of God (such as flooding, hurricane, earthquake, lightning, etc.), environmental condition (such as air pollution, mold, mildew, etc.), or staining from foreign substances (such as dirt, grease, oil, etc.); (5) variations or changes in color of TimberTech Products; (6) normal weathering due to exposure to sunlight, weather and atmosphere which can cause colored surfaces to, among other things, flake, chalk, or accumulate dirt or stains; (7) improper handling, storage, abuse or neglect of the TimberTech Products by Purchaser, the transferee or third parties; (8) any fasteners not supplied by TimberTech; or (9) minor dripping from DrySpace.

Purchaser is solely responsible for determining the effectiveness, fitness, suitability and safety of the TimberTech Products in connection with their use in any particular application.

**Limitations: DISCLAIMER OF WARRANTIES:** EXCEPT FOR (1) THE EXPRESS WRITTEN WARRANTY CONTAINED HEREIN, AND, (2) THE 25 YEAR LIMITED RESIDENTIAL FADE AND STAIN WARRANTY APPLICABLE TO EARTHWOOD EVOLUTIONS DECKING ONLY (WHICH IS IN ADDITION TO THE WARRANTY CONTAINED HEREIN), TIMBERTECH MAKES NO OTHER WARRANTIES, GUARANTEES OR INDEMNITIES, WHETHER EXPRESS OR IMPLIED, ARISING BY LAW, COURSE OF DEALING, USAGE OF TRADE, CUSTOM OR OTHERWISE, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ALL SUCH OTHER WARRANTIES, GUARANTEES AND INDEMNITIES ARE HEREBY DISCLAIMED, OVERRIDDEN AND EXCLUDED FROM THIS TRANSACTION FOR THE WARRANTY TERM AND BEYOND THE WARRANTY TERM.

Some states do not allow limitations on how long an implied warranty lasts so the above limitation may not apply to you.

**LIMITATION OF REMEDIES AND EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES:** TIMBERTECH'S LIABILITIES ARE LIMITED SOLELY AND EXCLUSIVELY TO THE OBLIGATIONS SPECIFICALLY UNDERTAKEN HEREIN, AND UNDER NO CIRCUMSTANCES WILL TIMBERTECH BE LIABLE OR OBLIGATED FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, PUNITIVE OR ANY OTHER DAMAGES OF ANY KIND WHATSOEVER (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOST SALES, LOSS OF GOODWILL, USE OF MONEY, USE OF GOODS, STOPPAGE OF WORK, OR IMPAIRMENT OF ASSETS), WHETHER FORESEEABLE OR UNFORESEEABLE, ARISING OUT OF BREACH OR FAILURE OF EXPRESS OR IMPLIED WARRANTY, BREACH OF CONTRACT, FRAUD, MISREPRESENTATION, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, EXCEPT AND ONLY TO THE EXTENT THIS LIMITATION IS SPECIFICALLY PRECLUDED BY APPLICABLE LAW OF MANDATORY APPLICATION. TIMBERTECH'S LIABILITY WITH RESPECT TO DEFECTIVE PRODUCTS SHALL IN NO EVENT EXCEED THE REPLACEMENT OF SUCH PRODUCTS OR REFUND OF THE PURCHASE PRICE, AS DESCRIBED ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

**Miscellaneous:** This writing is understood and intended to be the final expression of the parties' agreement and is a complete and exclusive statement of the terms and conditions with respect thereto, superseding all prior agreements or representations, oral or written, and all other communication between the parties relating to the subject matter of this agreement. This warranty may not be altered or amended except in a written instrument signed by TimberTech and Purchaser or permitted transferee. No agent, employee or any other party is authorized to make any warranty in addition to that made in this agreement and TimberTech shall not be bound by any such statements other than those contained in this warranty.

This warranty shall only be applicable and enforceable in the United States of America.

This warranty is effective for purchases (residential or commercial, as the case may be) made on or after January 1, 2011.

Copyright (c) 2011 TimberTech.

Every TimberTech product is backed by exceptional customer service and a commitment to quality.

**Decking, Railing & Fencing** — TimberTech decking, railing and fencing products are backed by a 25-year limited warranty for residential applications and a 10-year limited warranty for commercial applications.\*

TimberTech products are guaranteed against: • Termites • Decay • Checking • Rotting • Splitting • Splintering

\* This does not include BuilderRail metal balusters which are covered by a 10-year limited warranty against cracking, peeling, blistering, and corrosion.

**DeckLites** — TimberTech DeckLites are covered by a 5-year limited warranty for residential applications.

**DrySpace** — TimberTech DrySpace has a 25-year residential limited warranty on products purchased on or after January 1, 2007. DrySpace products purchased prior to this date have a 5-year limited warranty.

**To Make a Claim** — To make a claim under either warranty, purchaser or the transferee, must send to TimberTech, within the warranty period referred to above, a description of the claimed defect and proof of purchase. Warranty Information Packets can be obtained from TimberTech.

**TimberTech Limited** • Attn: Claims Department  
894 Prairie Avenue, Wilmington, Ohio 45177 Or call 1-800-307-7780

**For a copy of TimberTech's complete warranty visit [www.timbertech.com](http://www.timbertech.com).**

**Warranty Registration is Easy**

- The easiest way to register a warranty is to visit [www.timbertech.com](http://www.timbertech.com) and select the Warranty & Care link, then select Register Online.
- You may prefer to fill out the Warranty Card below and mail it to TimberTech, accordingly to the instructions on the card.

**Remember, to ensure your product is covered by the TimberTech Warranty it must be installed properly.**

TimberTech LTD disclaims any liability or responsibility for the improper installation of this product. The purchaser is solely responsible for compliance with applicable local codes as to the deck's intended use. TimberTech recommends all designs be reviewed by a licensed architect, engineer or local building official before installation. TimberTech maintains a list of physical properties to assist the design professional.

Below is a chart showing which product each warranty covers. You can view warranty details online at [www.timbertech.com](http://www.timbertech.com):

- **Limited 25-Year Residential Warranty / Limited 10-Year Commercial Warranty**  
**Decking:** DockSider, Floorizon, Earthwood Evolutions, TwinFinish, XLM  
**Railing:** Ornamental Rail, RadianceRail, BuilderRail (excluding all metal baluster components of BuilderRail System)  
**Fencing:** All FenceScape a products  
**Accessories:** CONCEALoc, DrySpace
- **Limited 10-Year Warranty for Metal Baluster Components of BuilderRail System**
- **Limited 5-Year Warranty for DeckLites System**

**TimberTech Customer:**  
Please complete this warranty card and mail to:

TimberTech  
894 Prairie Avenue  
Wilmington, Ohio 45177  
Attn: Warranty

This information will help us better serve your needs.  
Please return warranty card within 30 days of receipt of product.



Name: \_\_\_\_\_ Purchase Date: \_\_\_\_\_  
 Street Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State/Province: \_\_\_\_\_ Zip/Postal Code: \_\_\_\_\_  
 Country: \_\_\_\_\_ Phone: \_\_\_\_\_

**Product Information:**

Where was your product purchased? \_\_\_\_\_  
 How was your product installed? \_\_\_\_\_  
 Contractor Name: \_\_\_\_\_  Self-Installed

**Warranty Registration: Check the TimberTech product that you purchased:**

**Decking:**  Earthwood Evolutions™ Plank  ReliaBoard™ Plank  Accessories: \_\_\_\_\_  
 Floorizon® Plank  XLM® Plank \_\_\_\_\_  
 DockSider™ Plank  TwinFinish® Plank

**Railing:**  RadianceRail®  RadianceRail® Express  Ornamental Rail  BuilderRail®  Evolutions™ Rail  
 Metal Balusters  Secure-Mount System  ADA Hand Rail System  CableRail

DrySpace™  DeckLites®  FenceScape®

**Demographic Information:** Number of residents in household: \_\_\_\_\_

Number of household residents in the following age groups:  
 0-12  13-18  19-27  28-39  40-55  55+

Average household income:  
 Under \$35,000  \$35,000-50,000  \$50,000-70,000  \$70,000-95,000  \$95,000+

It's not just a deck. It's TimberTech.



Visit [timbertech.com](http://timbertech.com) or  
call 1-800-307-7780 for more information.