TOLKO TTEC ENGINEERED WOOD

INSTALLATION GUIDE

U S A

WALL FRAMING

T-TEC LSL 1.35E & 1.55E
T-TEC LVL 1.6E, 1.8E, 2.1E & 2.2E

Issue Date: July 17, 2026
Reference: IG-WF-U1

Important: All Tolko engineered wood products are intended and warranted for use in dry-service conditions.

T-TEC LSL	
Widths	1 ½", 1 ¾"
Depths	3 ½", 5 ½", 7 ¼", 9 ¼"
Lengths	Up to 24'
E-Rating	1.35E, 1.55E
Zinc Borate Treatment	Optional

T-TEC LVL	
Thickness	1 ½", 1 ¾", 3 ½", 5 ¼", 7"
Depths	3 ½", 5 ½", 7 ¼", 9 ¼", 9 ½", 11 ¼", 11 ⅞", 14", 16", 18", 20", 22", 24"
Lengths	Up to 48'
E-Rating	1.6E, 1.8E, 2.1E, 2.2E

For additional information please visit Standards / Specifications - Tolko Industries. In the event of any discrepancy or conflict between published information, or should any questions arise, Tolko should be contacted for clarification prior to reliance on such information.

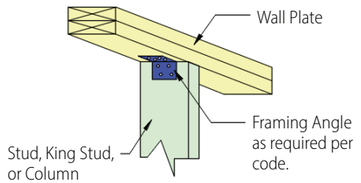
Tolko offers authorized customers access to engineered wood design software.

To become an authorized Tolko user, please contact your Tolko EWP sales representative at:
Phone: 250-549-5311
Email: designsoftware@tolko.com

SIMPSON Strong-Tie MiTek

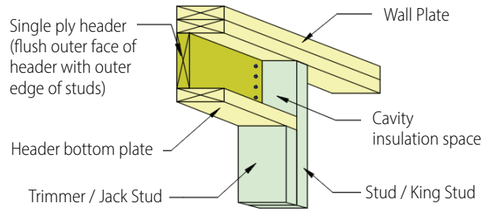
WALL DETAILS

Detail 1: Stud to Wall Plate



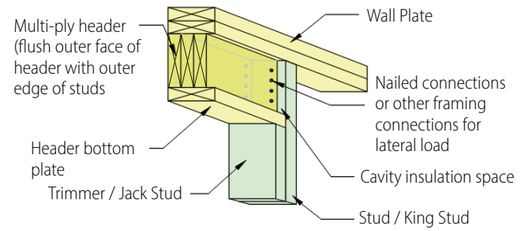
Notes:
1) Lateral wind load connections as per T-TEC Wall Framing Technical Guide.

Detail 2: Single Ply Header Supported by Trimmer/Jack Studs



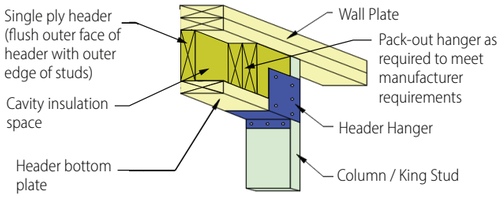
Notes:
1) Fasten header to the stud/post as per T-TEC Wall Framing Technical Guide.
2) Toenail top header to top plates with 8d box nails (0.113" x 2 ½") at 6" o.c. spacing.
3) Face nail the header bottom edge through the bottom plate with 8d common nails (0.113" x 2 ½") at 6" o.c. spacing.

Detail 3: Multi-ply Header Supported by Trimmers/Jack Studs



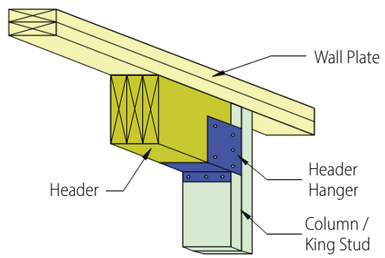
Notes:
1) Fasten header to the Stud / King Stud / Column as per T-TEC Wall Framing Technical Guide.
2) Toenail top header to top plates with 8d box nails (0.113" x 2 ½") at 6" o.c. spacing.
3) Face nail the header bottom edge through the bottom plate with 8d common nails (0.113" x 2 ½") at 6" o.c. spacing.
4) Multi-ply header connections as per T-TEC Wall Framing Technical Guide.
5) Vertical load transferred to the trimmer as per T-TEC Wall Framing Technical Guide.

Detail 4: Single Ply Header Supported by Hangers



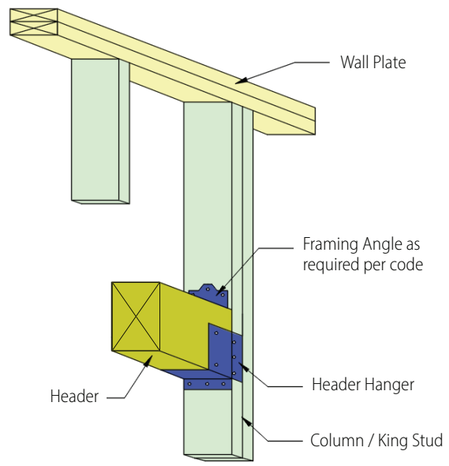
Notes:
1) Toenail top header to top plates with 8d box nails (0.113" x 2 ½") at 6" o.c. spacing.
2) Face nail the header bottom edge through the bottom plate with 8d common nails (0.113" x 2 ½") at 6" o.c. spacing.
3) Vertical and lateral load capacities as per T-TEC Wall Framing Technical Guide.

Detail 5: Top Header Supported by Hangers



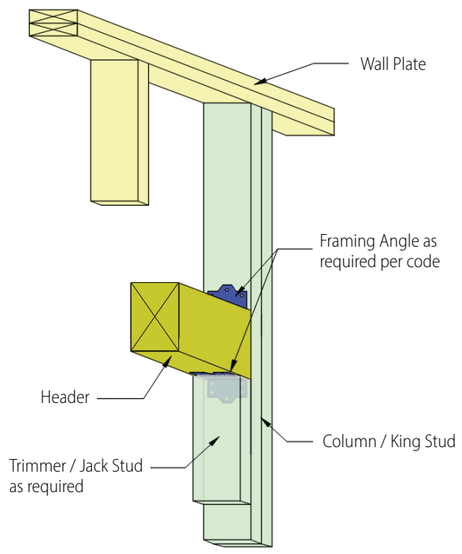
Notes:
1) Multi-ply header connections as per T-TEC Wall Framing Technical Guide.
2) Vertical and lateral load capacities as per T-TEC Wall Framing Technical Guide.

Detail 6: Header with Framing Angle Supported by Hangers



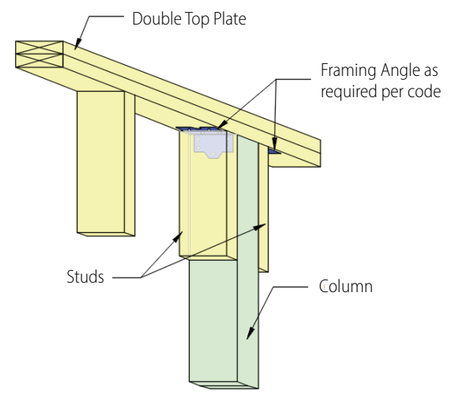
Notes:
1) Multi-ply header connections as per T-TEC Wall Framing Technical Guide.
2) Lateral wind load connections as per T-TEC Wall Framing Technical Guide.
3) Vertical load capacities as per T-TEC Wall Framing Technical Guide.

Detail 7: Header with Framing Angles Supported by Trimmers



Notes:
1) Multi-ply header connections as per T-TEC Wall Framing Technical Guide.
2) Lateral wind load connections as per T-TEC Wall Framing Technical Guide.
3) Vertical load transferred to the trimmer as per T-TEC Wall Framing Technical Guide.

Detail 8: Column / King Stud to Top Plate



Notes:
1) Lateral wind load connections as per T-TEC Wall Framing Technical Guide (the studs transfer the lateral wind load).
2) The post transfers the concentrated vertical load.

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Tel 250.545.4411
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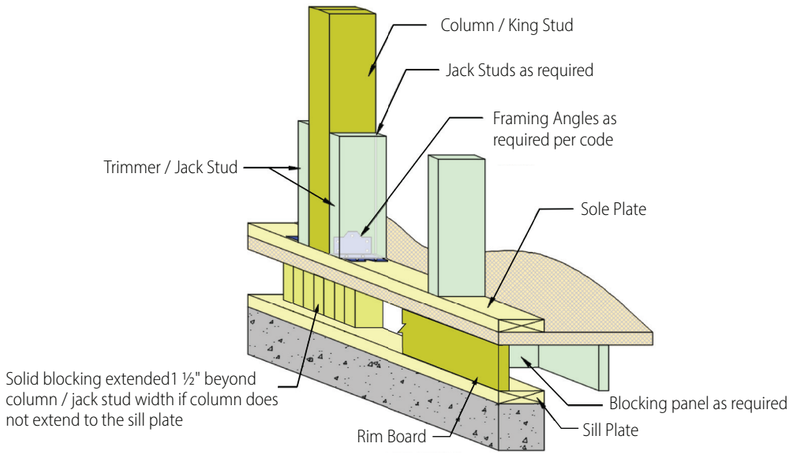
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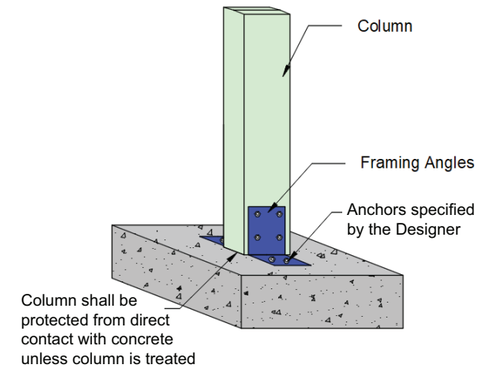
TOLKO TTEC ENGINEERED WOOD

WALL DETAILS

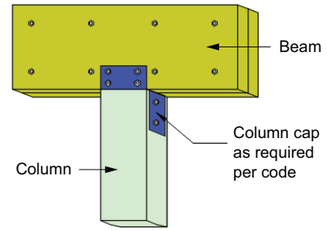
Detail 9: Column/King-Stud to Sill Plate



Detail 10: Column Base



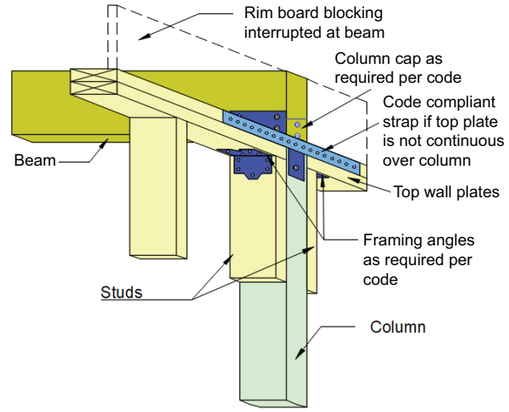
Detail 11: Column Cap



Note:

1) Column cap is used for the vertical load transfer.

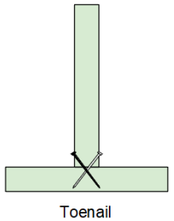
Detail 12: Column to Beam



Note:

1) Lateral wind load connections as per T-TEC Wall Framing Technical Guide (the studs transfer the lateral wind load). The post transfers the concentrated vertical load.

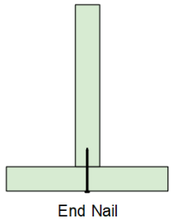
Detail 13: Toenail



Note:

1) Fasteners capacities as per T-TEC Wall Framing Technical Guide.

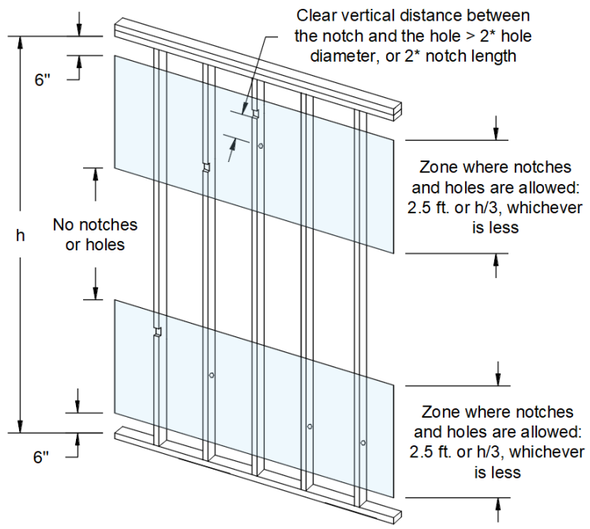
Detail 14: End Nail



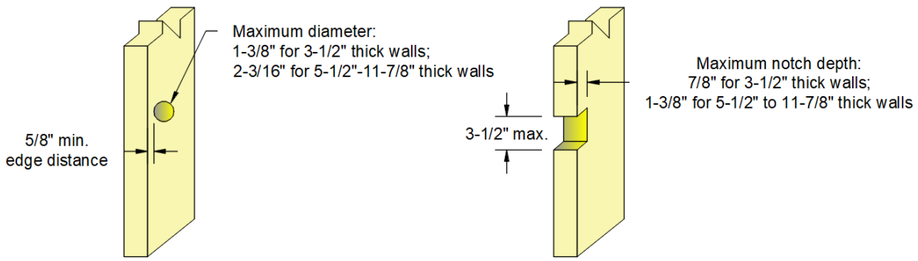
Note:

1) Fasteners capacities as per T-TEC Wall Framing Technical Guide.

Detail 15: Allowed Drilling and Notching Zones



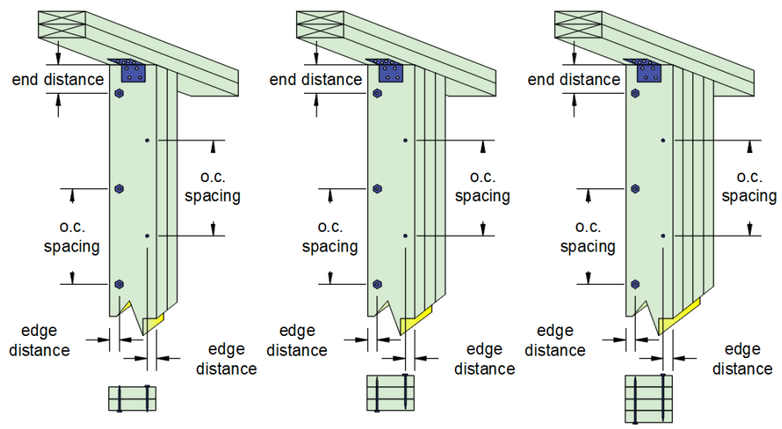
Detail 16: Allowed Holes and Notches Dimensions



Notes:

1) Notches are only allowed on the narrow face.
2) Bored Holes shall NOT be located in the same cross-section of a cut or a notch in the stud. Clear vertical distance between a notch and a hole shall be greater than 2 x (hole diameter) or 2 x (notch height), whichever is greater

Detail 17: Vertical Members - Multi-ply Connections



Note:

1) Multi-ply member connections as per T-TEC Wall Framing Technical Guide.

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SUGGESTED TOOLS FOR INSTALLATION

Tools and personal protective equipment (PPE) are the responsibility of the framing contractor. The tools suggested are:

- Compressor
- Pneumatic Air Nailer
- Hammer
- Circular saw
- Hearing protection and other PPE as mandated by AHJ

STORAGE AND HANDLING

INTRODUCTION

Proper storage and handling of engineered wood products (EWP) including T-TEC LSL, T-TEC LVL, T-TEC I-Joists, Tolko LSL Industrials and Tolko LVL Industrials is required to protect the products during distribution and at the job-site. APA – The Engineered Wood Association recommends the following storage and handling practices for EWP products. For full details on proper storage and handling, refer to *APA Technical Note: Proper Storage and Handling of I-Joists and LVL, Form E705* available at www.apawood.org.

SAFE HANDLING DURING DISTRIBUTION

1. Bundle wrap can be slippery. Avoid walking on wrapped bundles. Stacks of product may be unstable or slippery, especially when wet. Avoid walking on the material.
2. Follow good forklift safety procedures when handling EWP at the yard.
3. Store longest material lowest to the ground.
4. When handling with a crane, pick up the load using a spreader if necessary to minimize handling stresses.
5. Post and follow load limits on storage racks.

STORAGE DURING DISTRIBUTION

1. Keep wrapped to protect from weather.
2. Use stickers to separate bundles.
3. Use stickers every 8 feet and maintain vertical alignment of the stickers.
4. Do not store EWP in direct contact with the ground.
5. For optimal moisture protection, keep at least 12 inches up from the ground.
6. To protect from dirt and weather, delay unwrapping the bundles until the time of the installation or cut-up for delivery.
7. Take care to avoid forklift damage. If the ground is unlevel in the storage area, reduce forklift speed to avoid "bouncing" the load.
8. When handling with a crane, pick up the load using a spreader if necessary to minimize handling stresses.
9. Maintain stack height within safe limits.
10. Do not stack other material on top of EWP.

PROPER HANDLING AT THE JOB-SITE

1. Do not drop the product off the delivery truck. Best practice is to use a forklift or boom.
2. Store on level, well-drained area.
3. Keep on stickers spaced every 8' and at least every 6" off the ground at the job-site.
4. Keep material covered to protect from weather.
5. Do not stack other material on top of the product.
6. Never use or try to repair damaged products. If defective material is discovered prior to or during installation, cease installation and contact the supplier.

MOISTURE EFFECTS

T-TEC Engineered Wood products are manufactured under carefully controlled conditions that assure they are dry. Moisture content can be affected by humidity, exposure to wetting and drying conditions. While T-TEC Engineered Wood products are engineered to withstand normal exposure, excessive exposure to moisture may lead to dimensional change.

If moisture is present, mold, mildew and wood decay fungi may grow on any engineered wood products, thus it is important to properly store EWP to control exposure to moisture. Moisture increase is expected under normal construction situations and does not adversely affect the performance of the products if good building practices are followed to minimize exposure and to provide proper conditions for the products to re-equilibrate to dry conditions.

Reference: *APA Technical Note: Proper Storage and Handling of I-Joists and LVL, Form E705* available at www.apawood.org.



Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhailing wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.



This product can expose you to chemicals including methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.