KNOTWOOD

IT'S NOT WOOD, IT'S ALUMINUM

Extrusion Manual

Installation Guide and Section Profiles

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WHITE SHADES

ASPEN	DRIFTWOOD	ASH	BEACH WOOD	ZEBRANO

BLACK SHADES

BLACK ASH

YELLOW SHADES

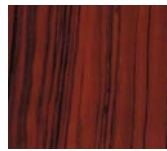|							
IROKO	TASSIE OAK	LIGHT OAK	KNOTTY PINE	SPOTTED GUM	HICKORY	MAPLE	BLACKBUTT
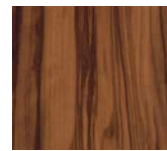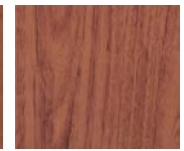
YELLOW SHADES

ATLANTIC CEDAR

ORANGE SHADES

AUSTRALIAN CEDAR	RED GUM	KOA	TIGER WOOD	MERBAU	IRON BARK

LIGHT BROWN SHADES

EASTERN MAHOGANY	WESTERN RED CEDAR	BUSH CHERRY	ELM	KWILA	TEAK BROWN

Stock Colors

Colors with a grey background are the Knotwood stock colors.
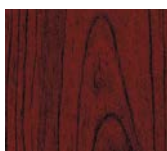
DARK BROWN SHADES

OLIVE TREE	BLACK WALNUT	WENGE

All Knotwood woodgrain finishes come with a **Limited Lifetime Warranty.** Unlike natural wood, Knotwood will NEVER rot, warp or crack. With next to no maintenance, these finishes will look like new from the day they are installed, and never need to be painted, stained or oiled.

What more could you ask for?

www.knotwood.com

1-855-566-8966

RED SHADES

|		
JARRAH	SYDNEY BLUE	ROSE MAHOGANY

Colors shown are indicative only, please call Knotwood for a production prepared sample for final color selection.

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SLATS

Classic style or contemporary flair. Knotwood's range of slats are versatile and beautiful. Made from the highest grade of aluminum alloy, you can be assured of quality. Slats are the backbone of Knotwood's system. Strong and durable, they are designed to last.
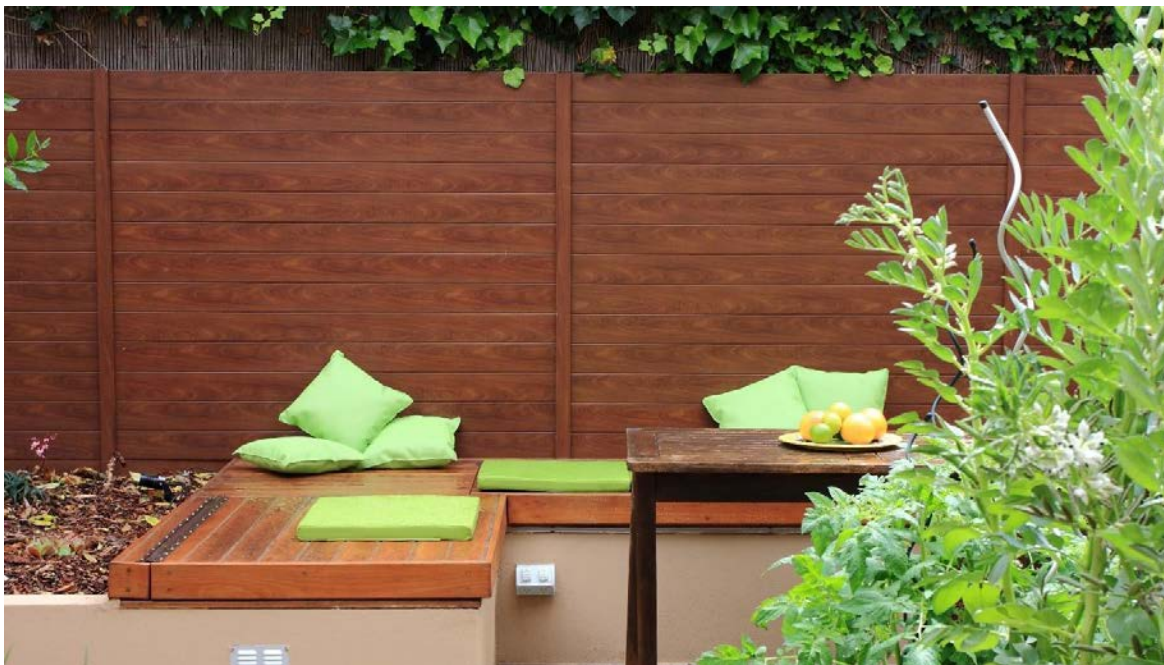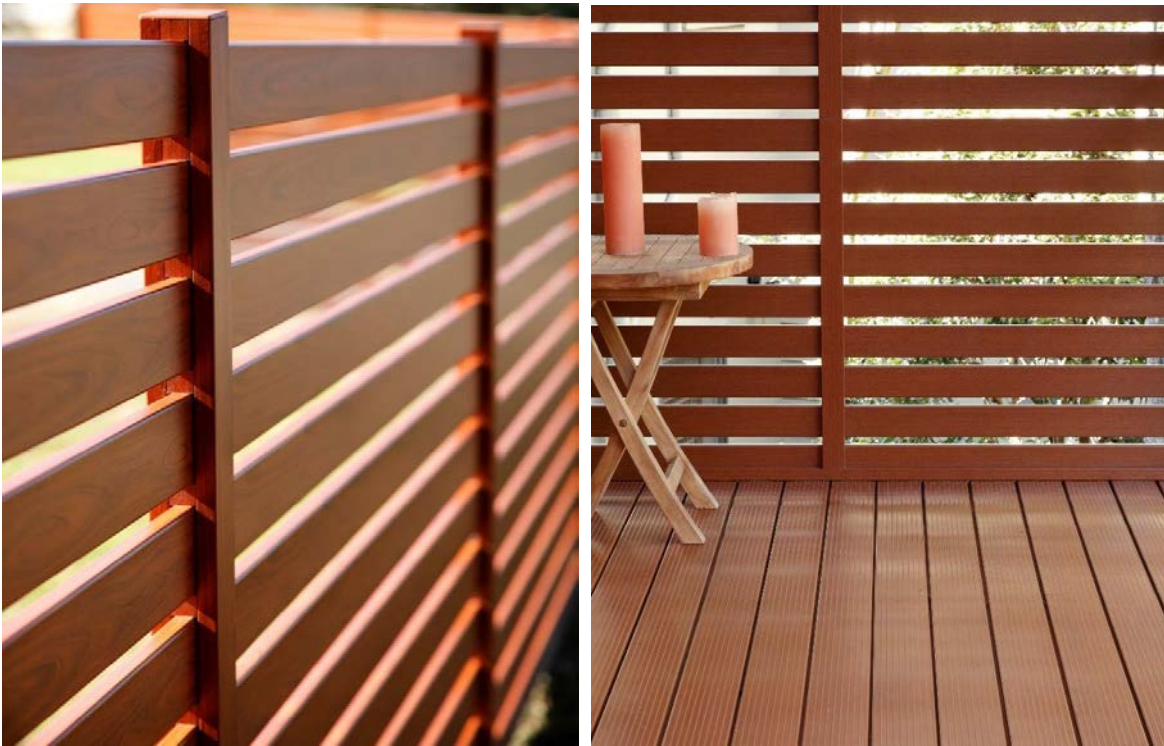
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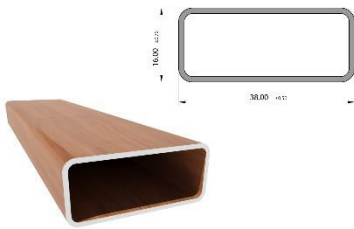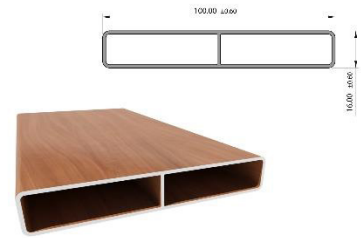
Profiles

All Slat profiles are 18' 6" lengths and can span up to 6' without support.
Knotwood recommends you seek engineering in high wind or high traffic areas and refer to the Certified Fence Installation Guide (supplied on request).
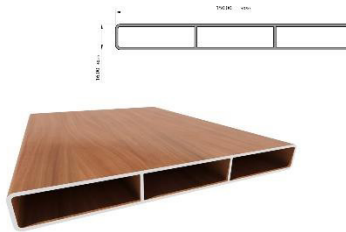
KES3816
38mm (1 1/2" Slat)
STOCK

KES6516
65mm (2 1/2" Slat)
STOCK

KES10016
100mm (4" Slat)
STOCK

KES15016
150mm (6" Slat)
STOCK

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FENCING and PRIVACY SCREENS

Made from high-quality, marine grade aluminum and protected by an award winning, woodgrain, powder-coat finish, Knotwood fencing is the original and the best. A Knotwood fence can give you the strength of aluminum with the realistic warm-feel of timber. Choose one of our stunning styles or create your own look using our versatile system, it's totally up to you. Vertical, horizontal, framed or picket, spacing big or small, wide or narrow, tall or short, you can take total control of your project to get the fence you really want.
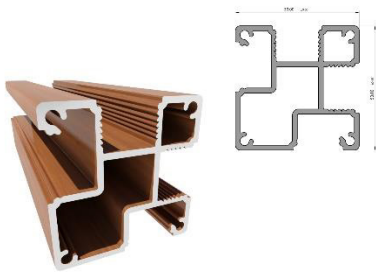
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Profiles

All Posts are supplied in 18' 6" lengths. Other lengths can be ordered on request and are subject to the terms and conditions of Knotwood special orders. Maximum spans vary depending on installation and application. Knotwood advises proper consultation before recommending the system for a particular application.

KESP2C5050 - 50 x 50
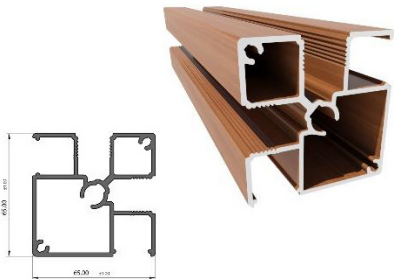(2 x 2" Corner Post)
NON-STOCK
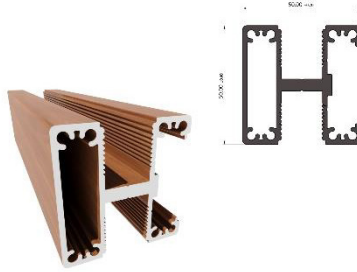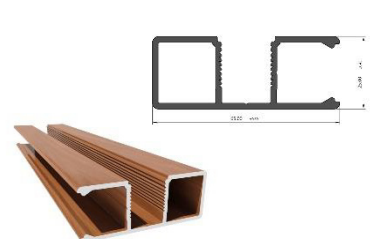
KESP2W5050 - 50 x 50
(2 x 2" Two-Way Post)
NON-STOCK
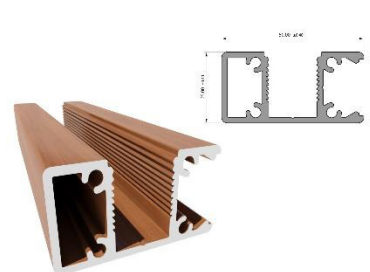
KESP1W5025 - 50 x 25
(2x1" One-Way Post)
NON-STOCK

KESP2C6565EF - 65 x 65
(2-9/16"x 2-9/16" Corner Post)
STOCK

KESP2W6565 - 65 x 65
(2-9/16"x 2-9/16" Two-Way Post)
STOCK

KESP1W6525 - 65 x 25
(2-9/16"x 1" One-Way/Top Rail)
STOCK

KESP3030 - 30 x 30
(1-1/8"x 1-1/8" U-Channel)
STOCK

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INSTALLATION

Knotwood's fencing system is designed to be easily installed for a variety of finished products. The following are suggestions on the most commonly used designs. Anything is possible with a little ingenuity.

Horizontal Fence

1. KESP2W6565
2. KES15016
3. KESINFS (2x)
4. KESINFS
5. SCREWS
6. KASP08
7. KAEC6565-R

1. Concrete post (KESP2W6565) into ground.
   (Check with local building code for depth)

2. Install slats and spacers

3. Continue until complete.

4. Screw slats to post (KESP2W6565).

5. Clip on infill strips (KESINFS).

6. Install end caps (KAEC6565-R).

7. Repeat on all posts.

8. Install two (2x) infill strips to finish post (KESP2W6565).

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Corner Fence Section

① KESP2C6565EF
② KES15016
③ KESINFS (2x)
④ KESINFS
⑤ SCREWS
⑥ KAOPBP65
⑦ KASP08
⑧ KAEC6565-R
⑨ SCREWS
⑩ CONCRETE SCREWS

1. Measure and cut post (KESP2C6565EF) to suit.

2. Attach base plate (KAOPBP65) to post (KESP2C6565EF).

3. Fix baseplate to the ground.

4. Install slats and spacers.

5. Screw slats to post (KESP2C6565EF).

6. Clip on infill strips (KESINFS).

7. Insert end caps (KAEC6565-R).

8. Repeat steps 5 to 7 on all posts.

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Horizontal Infill Install

1. KESP3030
2. KESINFS
3. KES6515
4. 10-16 HEX SCREWS
5. SCREWS
6. KAEC3030L-P
7. KASP08

1. Measure and cut U-Channel (KESP3030) and SM Infill (KESINFS).

2. Screw U-Channel (KESP3030) to wall post or pillar.

3. Install slats and spacers

4. Screw slats to U-Channel (KESP3030).

5. Clip on infill strips (KESINFS).

6. Insert end caps.

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Other Popular Styles

Santiago Style

Horizontal: No Gaps

Vertical: No Gaps

Vertical: Small Gaps

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GATES

With the winning combination of strength, low maintenance and versatile range of styles, it's no wonder people the world over are using Knotwood's Gate system to elevate their homes to the next level. Made from highly durable aluminum to look just like natural wood, you can have the beauty of timber without the associated problems. Front entry gates, pedestrian gates, driveway gates or even a barn door are all possible with the Knotwood Gate System. Choose from sliding or hinged opening options. You can design your gate from scratch or select from our range of styles.
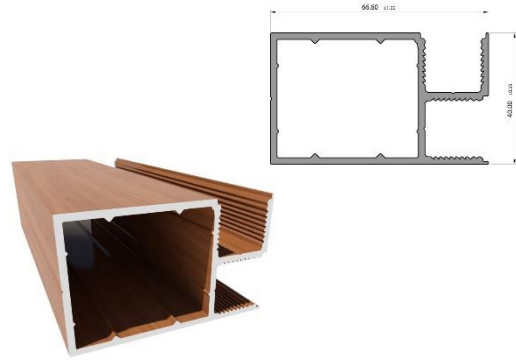
KNOTWOOD

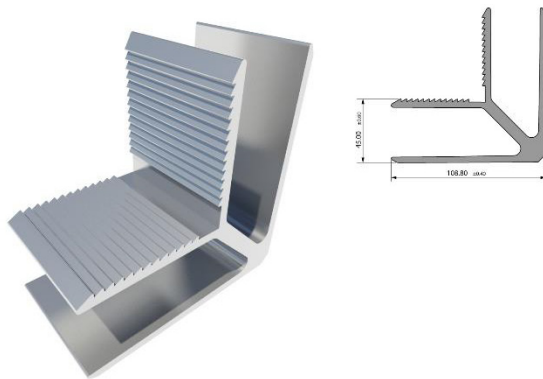IT'S NOT WOOD, IT'S ALUMINUM

Profiles

KESGF10050 - 100 x 50
(4 x 2" Large Gate Frame)
STOCK

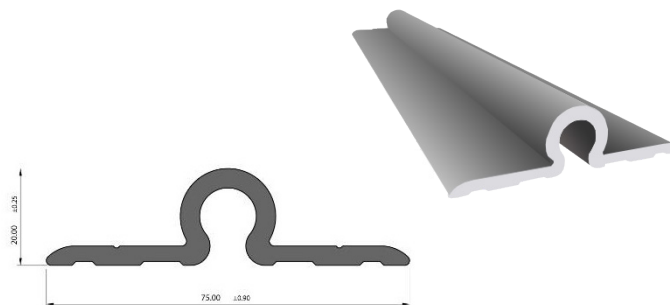**KESGF6640 -** 66 x 40
(2-1/2" x 1-1/2" Small Gate Frame)
STOCK

KAGCSGFL
Large Gate Frame Corner Stake
STOCK

KAGCSGFS
Small Gate Frame Corner Stake
STOCK

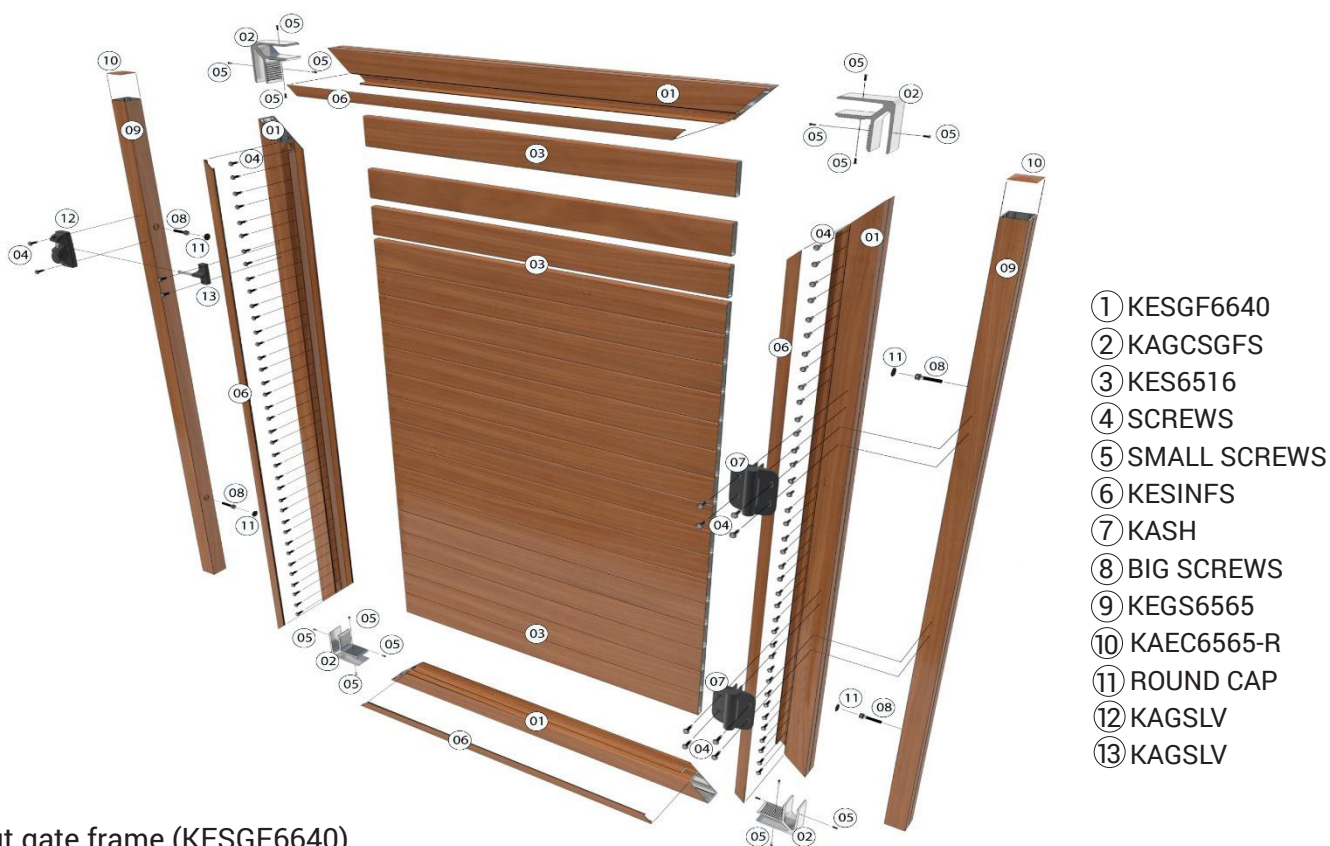**KESGT80 -** 80mm
(3-1/8" Sliding Gate Track - MILL FINISH ONLY)
STOCK

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INSTALLATION

Pedestrian Gate

1. KESGF6640
2. KAGCSGFS
3. KES6516
4. SCREWS
5. SMALL SCREWS
6. KESINFS
7. KASH
8. BIG SCREWS
9. KEGS6565
10. KAEC6565-R
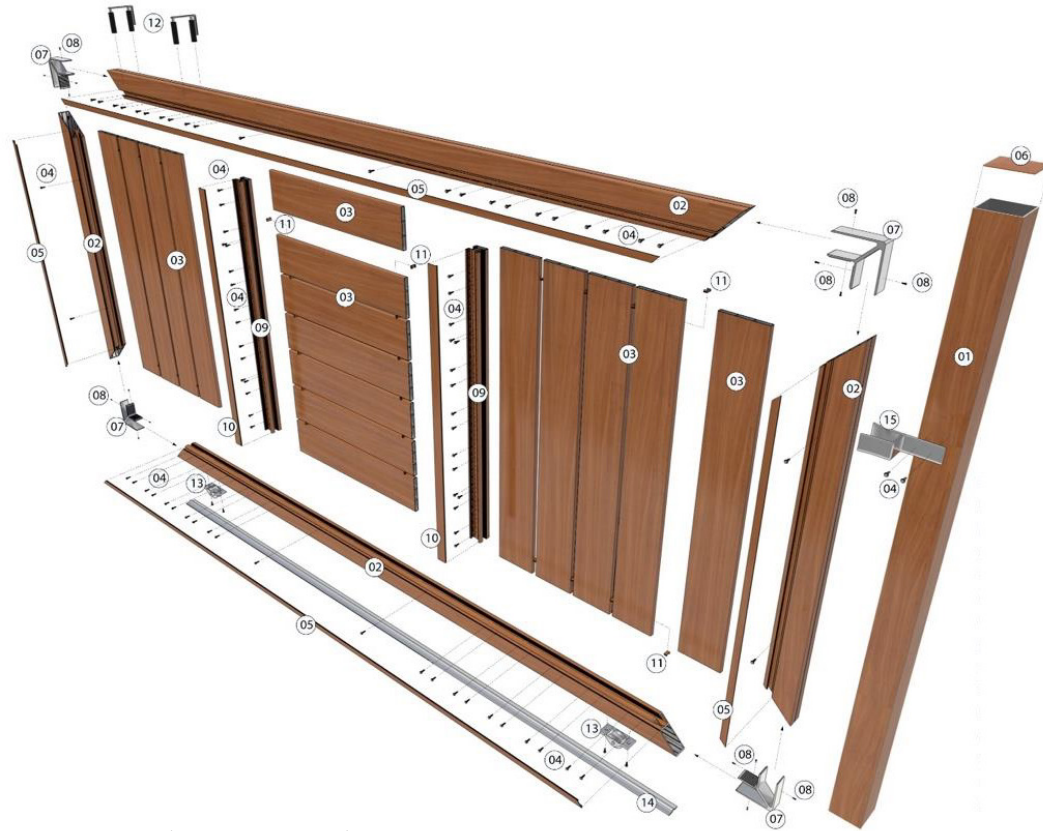11. ROUND CAP
12. KAGSLV
13. KAGSLV

1. Cut gate frame (KESGF6640).

2. Mitre gate frame (KESGF6640) corners 45 degrees.

3. Insert corner stake (KAGCSGFS).

4. Connect gate frame with corner stake (KAGCSGFS) and fix to gate frame (KAGSGF6640).

5. Install slats.

6. Attach top gate frame (KESGF6640) profile.

7. Screw slats to gate frame (KESGF6640).

8. Clip on infill (KESINFS).

9. Attach hinges (KASH).

10. Attach post (KEGS6565) to wall. NOTE: drill pilot hole.

11. Insert end caps (KAEC6565-R).

12. Attach hinges (KASH) to post.

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Sliding Gate

1. KESG100100
2. KESGF10050
3. KES10016
4. #10-16 HEX SCREWS
5. KESINFS
6. KAEC100100-R
7. KAGCSGFL
8. SMALL SCREWS
9. KESP2W5050
10. KESINFS
11. KASP08 (8mm Spacer)
    KASP16 (16mm Spacer)
    KASP24 (24mm Spacer)
12. KAGSGTRB
13. KAGSGBW
14. KESGT80
15. KAGSGGS

1. Cut gate frame (KESGF10050).

2. Mitre gate frame (KESGF10050) corners 45 degrees.

3. Insert corner stake (KAGCSGFL).

4. Connect gate frame with corner stake (KAGCSGFL) & fix to gate frame (KESGF10050).

5. Measure and cut posts (KESP2W5050) to suit design.

6. Install slats to secure posts (KESP2W5050) to gate frame (KESGF10050).

7. Install Slats.

8. Attach top gate frame (KESGF10050) profile.

9. Screw slats to gate frame (KESGF10050) .

10. Attach gate track (KESGT80) to ground using either bolts or concrete.

11. Fix sliding gate pack (KAGSGP) components (KAGSGTRB, KAGSGBW, KAGSGGS) to post or wall.

12. Clip on infill (KESINFS).

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BALUSTRADE / RAILING

Certified and ready to roll, Knotwood's Balustrade/Railing system is an eye-catching and safe alternative to traditional balustrade. The strength of Knotwood's engineered aluminum sections really shine through to provide comfort, safety and luxurious good looks all at the same time. Knotwood's balustrade supports all available Slats and Glass infill panels.
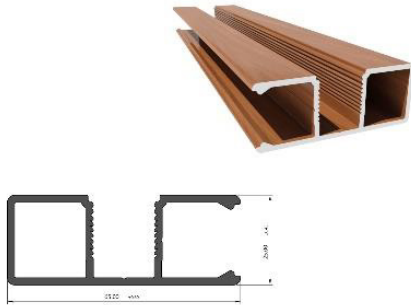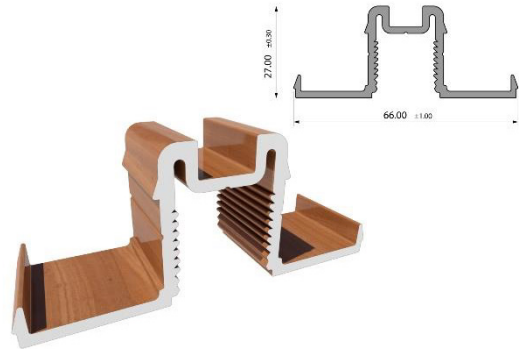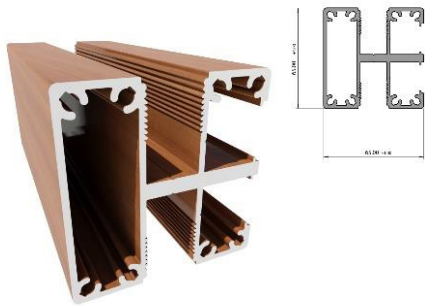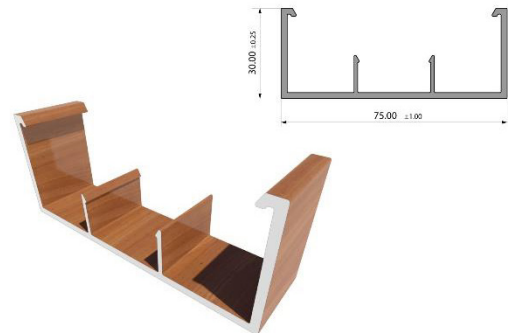
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Profiles

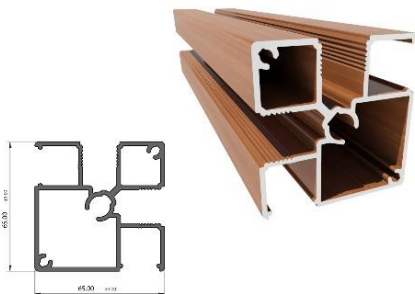**KESP1W6525 -** 65 x 25
(2-9/16" x 1" One Way Post/Top Rail)
STOCK
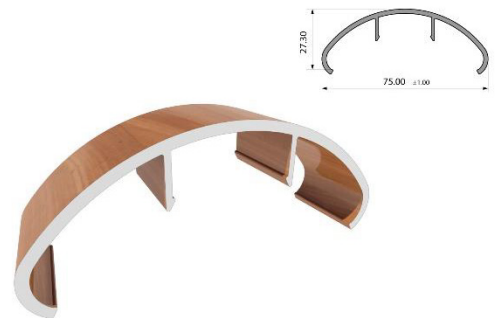

KESBF - 75mm (A)
(1" Handrail Base Clip)
STOCK

KESP2W6565 - 65 x 65
(2-9/16" x 2-9/16" Two Way Post)
STOCK

KESBTFR - 75mm (B)
(1" Handrail Clip Rectangular)
STOCK

KESP2C6565EF - 65 x 65
(2-9/16" x 2-9/16" Corner Post)
STOCK

KESBTFO - 75mm (B)
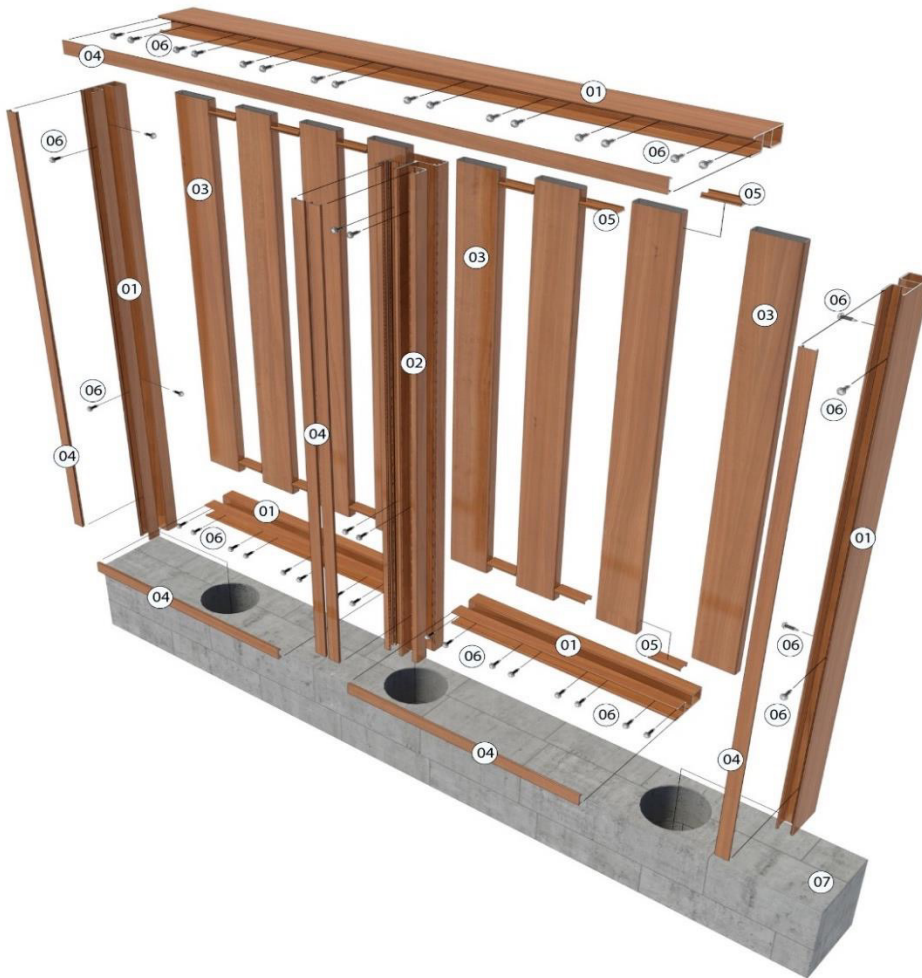(1" Oval Handrail Clip)
STOCK

Knotwood's range of railing/balustrade posts are supplied in 18'6" lengths. Infill panels can be made from the full range of Knotwood Slats or Glass panels.

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INSTALLATION

Guide only. Refer to Certification documents at **knotwood.com/downloads** for full details.

1. KESP1W6525
2. KESP2W6565
3. KES10016
4. KESINFS
5. KASP08 (8mm Spacer)
   KASP16 (16mm Spacer)
   KASP24 (24mm Spacer)
6. SCREWS
7. CORING OR BASE
   PLATE (KAOPBP65-10)

1. Core drill posts (KESP1W6525/KESP2W6565) into concrete.

2. Screw slats (KES10016) to either side of posts.

3. Screw (KESP1W6525) to slats at the bottom.

4. Install remaining slats and secure to bottom rail.

5. Screw (KESP1W6525) to slats at the top.

6. Clip on infill strips (KESINFS).

**See our video section at knotwood.com
for installation videos and more.**

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DECKING

You'll know your decking is safe because it's made from high-quality marine grade aluminum and can't rust, rot or crack. It has a durable finish backed by a limited lifetime warranty, so you don't have to worry about it fading, chipping or going chalky. The deck doesn't require expensive and time-consuming maintenance.
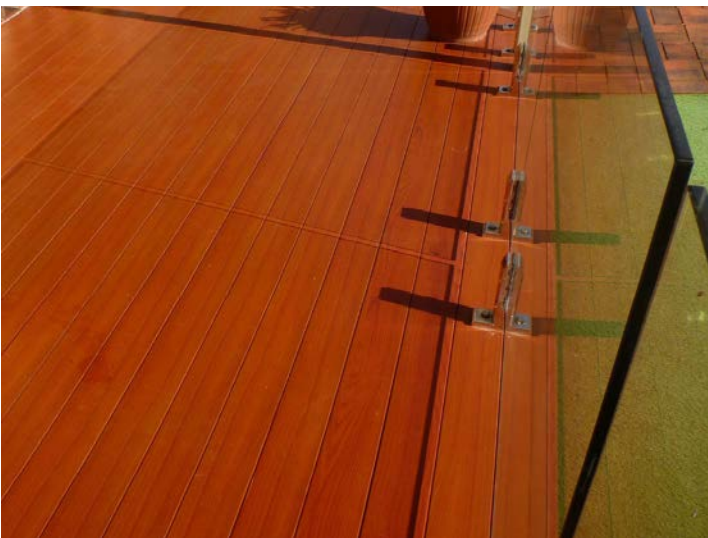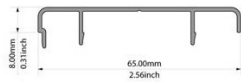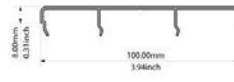
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Profiles

All profiles come in 18' 6" lengths in any available Knotwood or powder-coat finish. Any seams made should be made a the joists. Profiles are designed for 16" joist centers. Always consult the appropriate building codes when designing or constructing substructures.

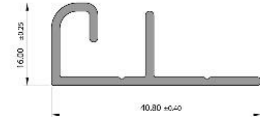**KESM6516 -** 65 x 16
(2-1/2" x 5/8" Self-Mating Slat)
NON-STOCK

KESM10016 - 100 x 16
(4" x 5/8" Self-Mating Slat)
NON-STOCK

KESM15016 - 150 x 16
(6" x 5/8" Self-Mating Slat)
STOCK
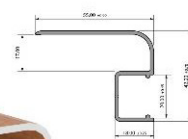
KED150 - 150 x 16
(6" x 5/8" Interlocking Decking/Cladding)
STOCK

KESTRADJ - 18' 6"
(Decking/Cladding Starter Strip)
STOCK

KESINFS - 18' 6"
(Small Infill Strip)
STOCK

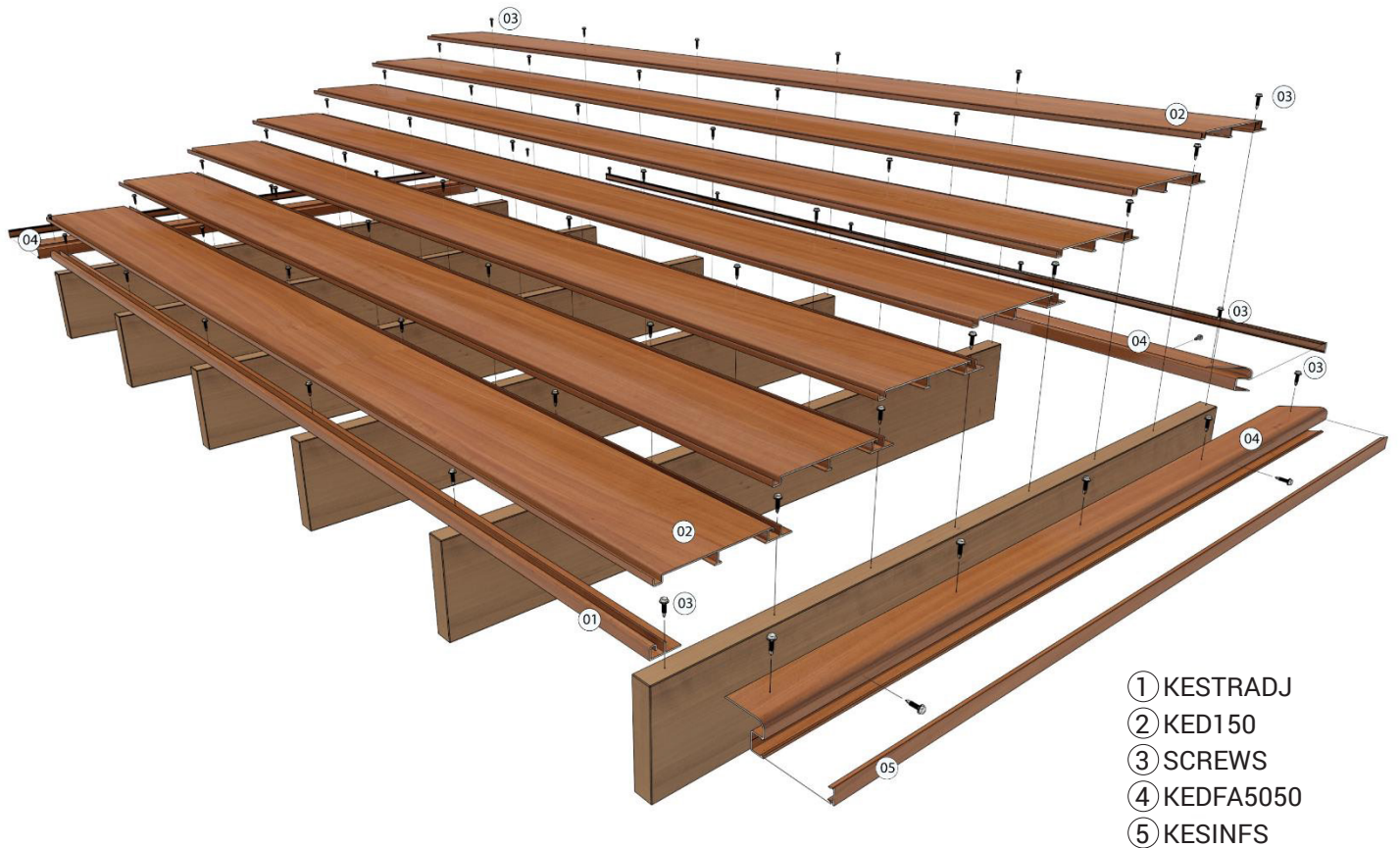**KEDFA5050 -** 18' 6"
(Decking/Cladding Concealed Finish Angle)
STOCK

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INSTALLATION

Interlocking Decking

1. KESTRADJ
2. KED150
3. SCREWS
4. KEDFA5050
5. KESINFS

1. Screw decking starter (KESTRADJ) to joists. NOTE: 16" centers.

2. Install decking board (KED100 / KED150).

3. Screw to joists.

4. Repeat until complete.

5. Mitre decking finishing angle (KEDFA5050) 45 degrees.

6. Screw to decking boards.

7. Clip infill (KESINFS) into finishing angle channel (KEDFA5050)

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Self-Mating Decking

① KESM15016
② KESM15016
③ SCREWS
④ KAEC15016-R
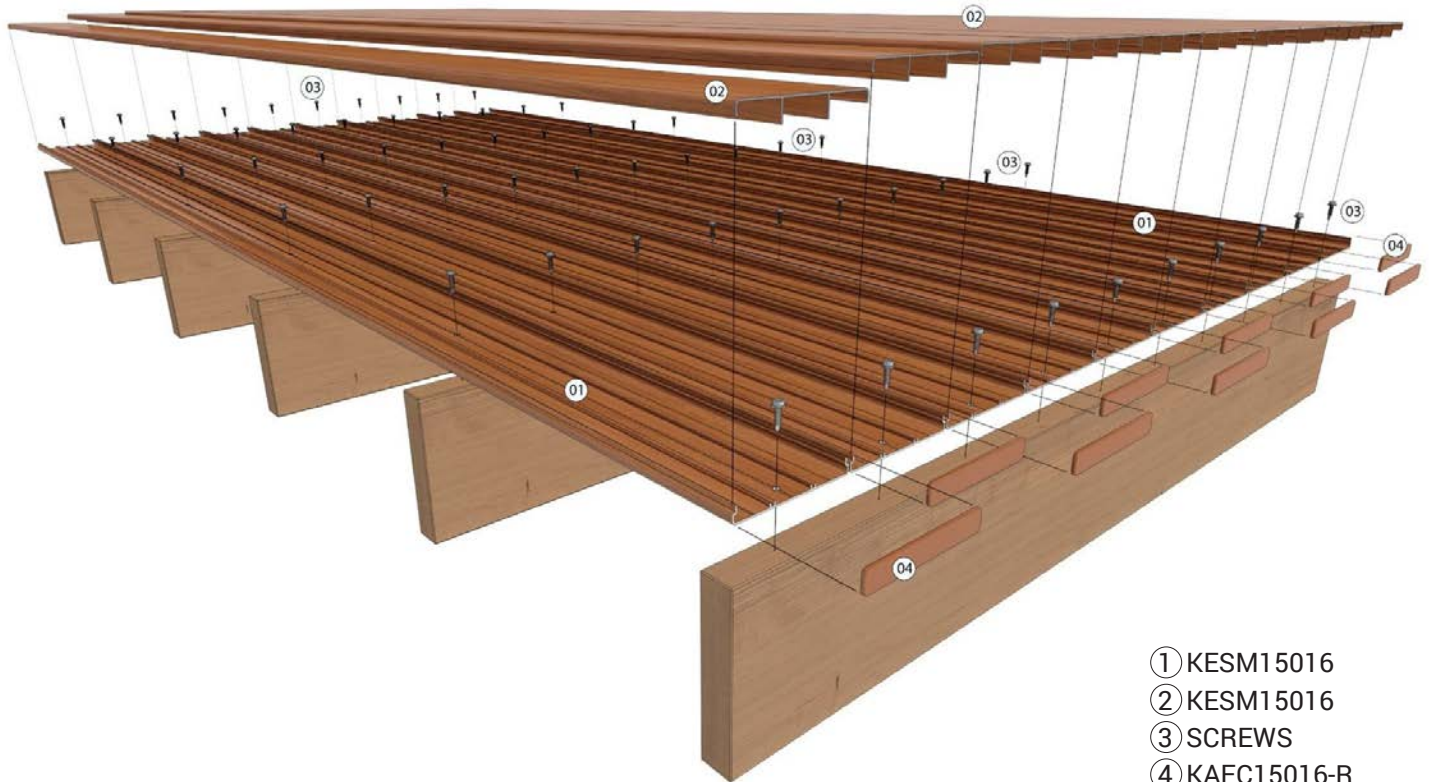
1. Cut and position self-mating slat (KESM15016).

2. Screw self-mating slat to joists (KESM15016).

3. Attach top self-mating slat (KESM15016).

4. Insert end cap(s) (KAEC15016-R).

5. Allow a few mm for expansion.

6. Repeat steps 1 to 4.

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CLADDING

Coated in Knotwood's award winning woodgrain finish, our cladding meets the highest finishing standards in the world. Backed by an industry leading limited lifetime warranty you can be sure that Knotwood cladding won't let you down. The unique hidden fastener system creates a clean finish that hides any unsightly screws or rivets. The interlocking system makes Knotwood cladding a smart choice when water penetration is a concern. Knotwood cladding requires next to no maintenance providing the benefits of wood without the drawbacks.
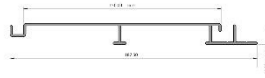
KNOTWOOD

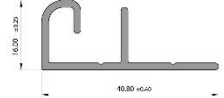### IT'S NOT WOOD, IT'S ALUMINUM

Profiles

Cladding comes in 18' 6" lengths in any available Knotwood or powder-coat finish. Accessories come in 18' 6" lengths. Always consult the appropriate building codes when designing/constructing substructures.

KED100S - 4" x 5/8"
(Decking/Cladding
Board)
NON-STOCK

KED150 - 150 x 16
(6" x 5/8" Interlocking
Decking/Cladding)
STOCK

KEDSTRADJ - 18' 6"
(Decking/Cladding
Starter Strip)
STOCK

KECFBF - 18' 6"
(Decking/Cladding Female
Flashing Base)
STOCK

KECFTTLM - 18' 6"
(Decking/Cladding Male
Flashing Top Clip)
STOCK

KECFJBF - 18' 6"
(Decking/Cladding Female
Joiner Base)
STOCK

KECTJM - 18' 6"
(Decking/Cladding Male
Top Joiner)
STOCK

KECIECLM - 18' 6"
(Decking/Cladding Male
Internal/External Corner)
STOCK

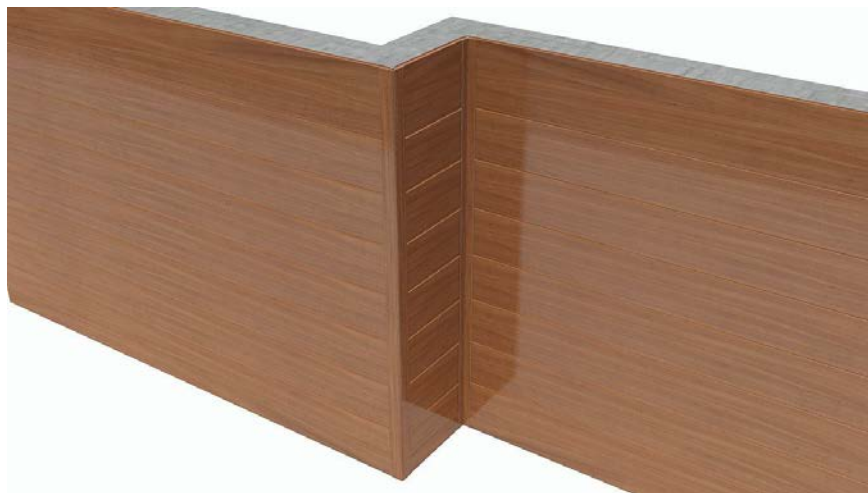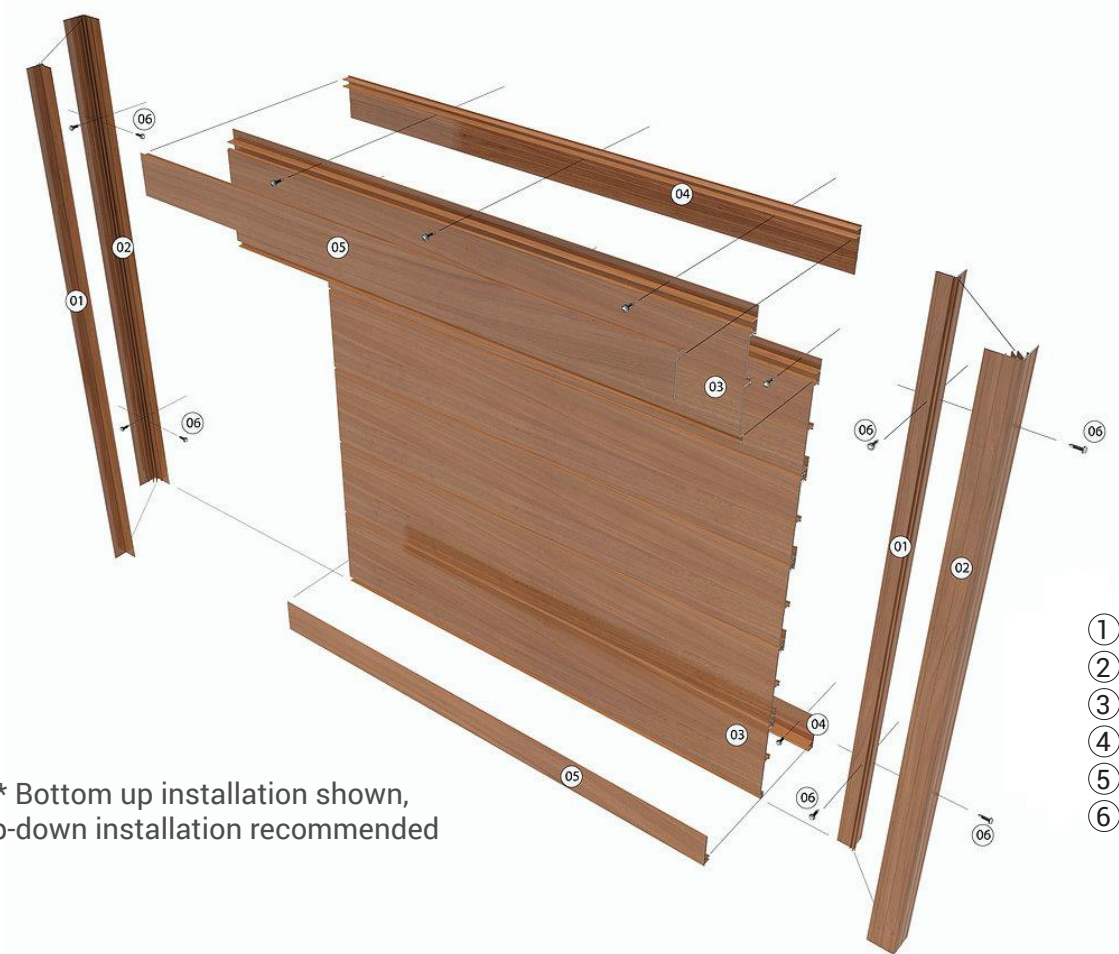**KECIECF -** 18' 6"
(Decking/Cladding Female
nternal/External Corner)
STOCK

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INSTALLATION

* Bottom up installation shown,
top-down installation recommended

1. KECIECLM
2. KECIECF
3. KED150
4. KECFBF
5. KECFTTLM
6. SCREWS

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1. KECIECLM
2. KECIECF
3. KED150
4. RAIN SCREEN (Per Spec)
5. BATTENS 6" Center (Per Spec)
6. KEDSTRADJ

* Bottom up installation shown,
top-down installation recommended
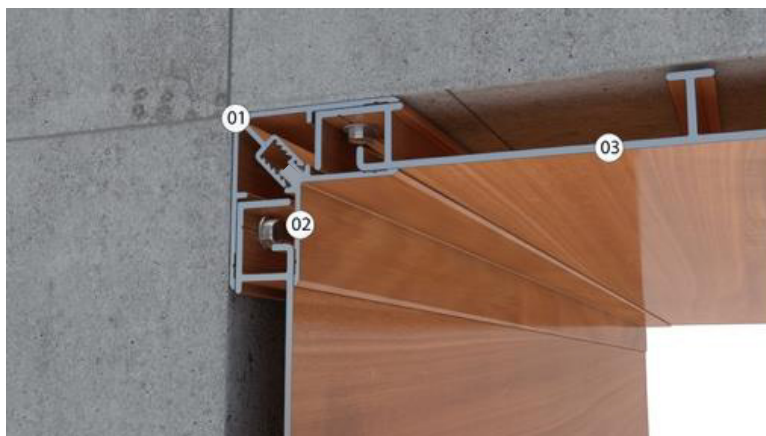
Starter Piece

1. KEDSTRADJ
2. KED150

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① KEDSTRADJ
② KED150

* Bottom up installation shown,
top-down installation recommended

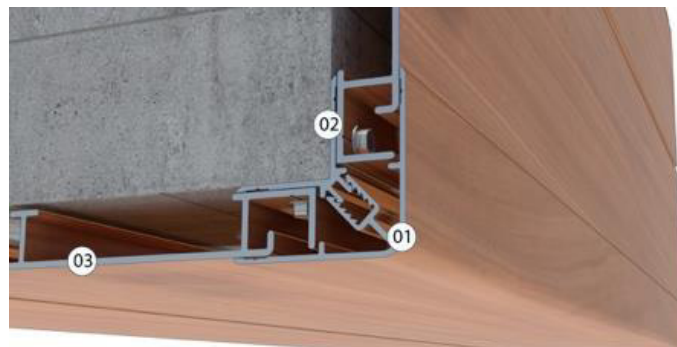## Inside Corner

① KECIECF
② KECIECLM
③ KED150

KNOTWOOD

IT'S NOT WOOD, IT'S ALUMINUM

Outside Corner


① KECIECF
② KECIECLM
③ KED150

Finishing Pieces

① KECFTTLM
② KECFBF
③ KED150

KNOTWOOD

IT'S NOT WOOD, IT'S ALUMINUM

BATTENS AND PERGOLAS

Knotwood's Clip-Batten system is as revolutionary as it is eye-catching. A built-in bracket provides a unique floating look that hides unsightly bolts and provides a look you simply can't get anywhere else. Not only can you create stunning features, but the versatile system can be used to create an oasis in the form of a pergola or trellis.
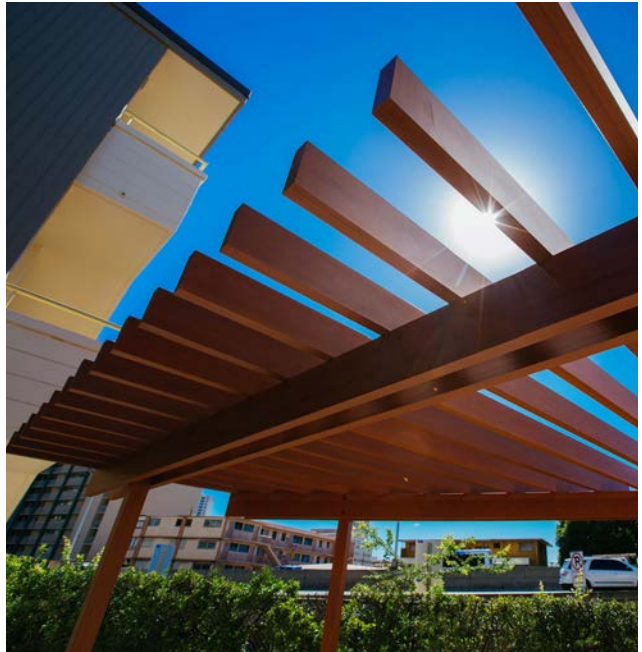
KNOTWOOD

IT'S NOT WOOD, IT'S ALUMINUM

Profiles

Clip-Batten Profiles are designed for spans of up to 18' 6" without a joint. Wind loads may vary in different regions. Consult an engineer if unsure about the systems viability for a specific application. Profiles come supplied in any available color in an 18' 6" standard length. Battens are 36" on center.

KEB5050F - 50 x 50
(2" x 2" Batten Part B)
STOCK
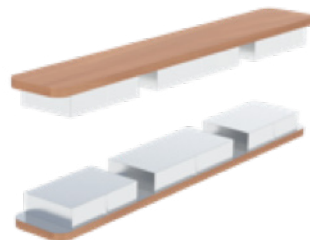
KEB10050F - 50 x 100
(2" x 4" Batten Part B)
STOCK

KEB15050F - 50 x 150
(2" x 6" Batten Part B)
STOCK

KEB20050F - 50 x 200
(2" x 8" Batten Part B)
STOCK

KEB5050M - 50 x 50
(2" x 2" Batten Part A)
STOCK

KAEC5050-R   (2" x 2" Caps)
KAEC10050-R (2" x 4" Caps)
KAEC15050-R (2" x 6" Caps)
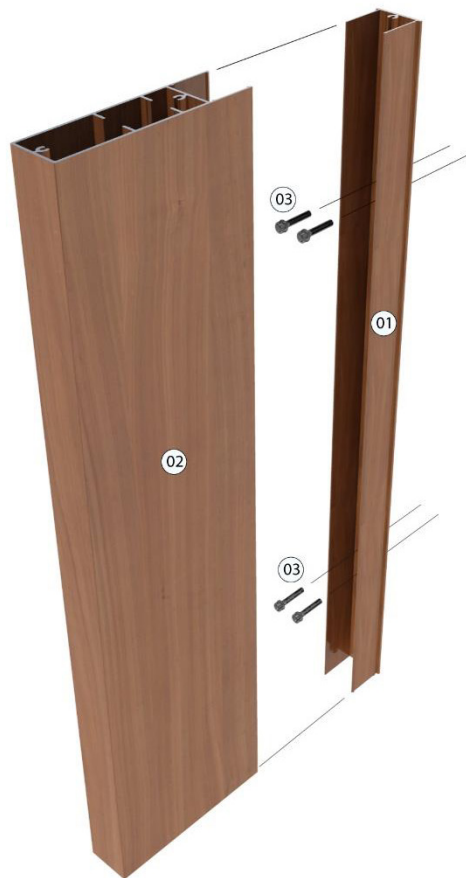**KAEC20050-R** (2" x 8" Caps)

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INSTALLATION

Any Part B can be used with the Part A Bracket. Installation Guides are for reference only.

Architectural Battens

1. KEB5050M
2. KEB15050F
3. SCREWS
4. KAEC5050-R   (2x2 Caps)
   KAEC10050-R (2x4 Caps)
   KAEC15050-R (2x6 Caps)
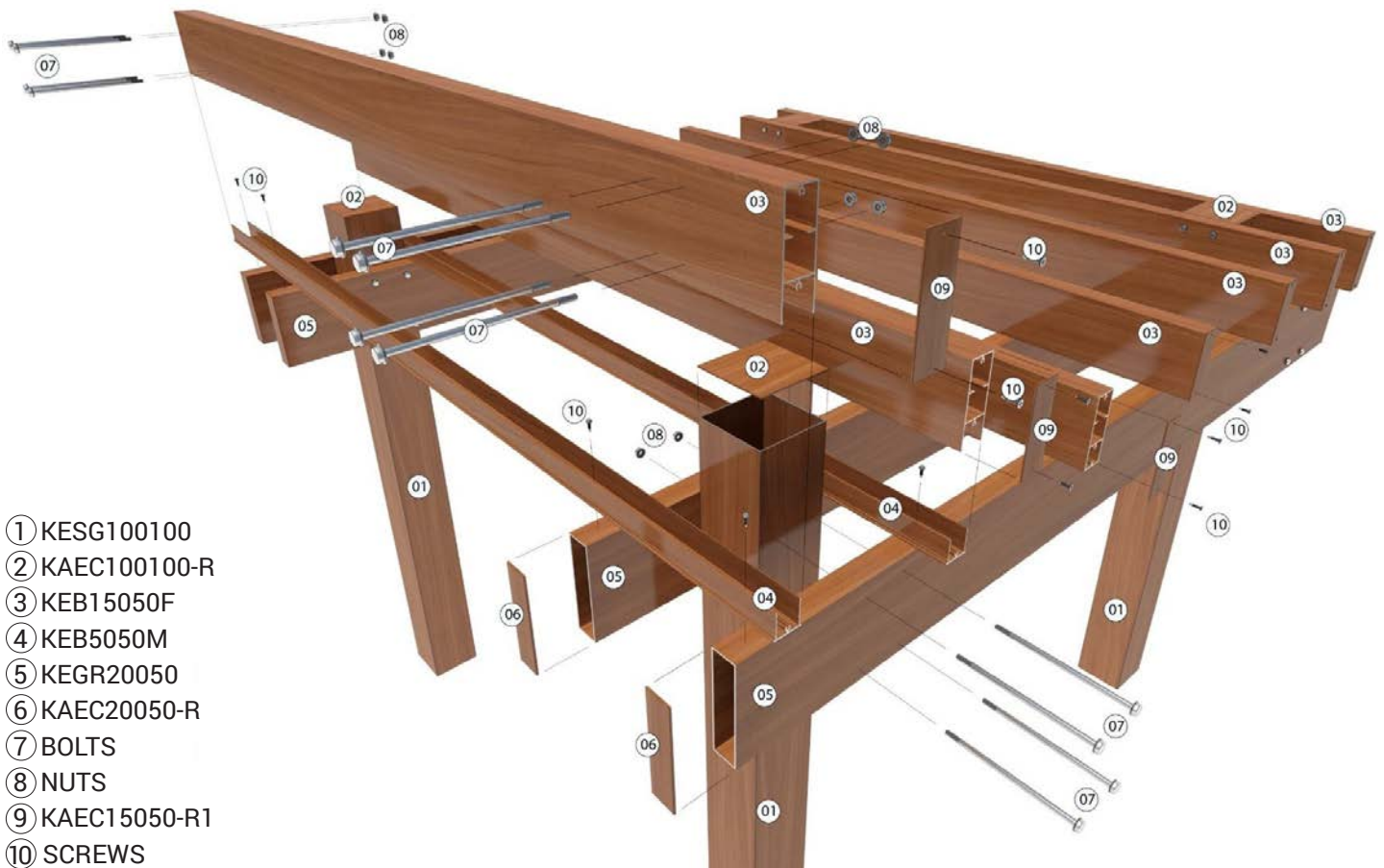   KAEC20050-R (2x8 Caps)

1. Attach KEB5050M to wall.

2. Clip KEB15150F onto the KEB5050M.

3. Repeat until complete.

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Pergolas

1. KESG100100
2. KAEC100100-R
3. KEB15050F
4. KEB5050M
5. KEGR20050
6. KAEC20050-R
7. BOLTS
8. NUTS
9. KAEC15050-R1
10. SCREWS

1. Install posts into ground (KEGS100100).

2. Bolt rails (KEGR20050) to posts (KEGS100100).

3. Screw (KEB5050A) to (KEGR20050) to either side of the posts.

4. Clip (KEB15050F) to (KEB5050M) and secure to posts with bolts.

5. Secure the remainder of the (KEB5050M) to rails at the desired spacing.

6. Clip the (KEB15050F) onto (KEB5050M)

7. Screw end caps (KAEC15050-R/KAEC20050-R) to batten and rails.