

Section 1: Description

An ideal solution for indoor or outdoor installations, the Apex Coping System finishes the top ledge of your Endless Pool quickly and easily. The Apex Coping System contains 1" (25mm) thick straight boards and corners to match your pool size. The locking mechanism between the adjacent boards is tongue and groove, assuring a strong and flush expansion joint.

Section 2: Additional Considerations

If installing the Optional Ascent Skirting, the pool should be framed prior to installing the coping system. Refer to the *Ascent Skirting Framing Supplemental Guide* for detailed information.

It's recommended to install the Apex Coping System once the pool is AT LEAST half-way filled with water. The hydrostatic load will cause the pool walls to deflect laterally. The deflection can have a significant impact on the coping, resulting in undesirable gaps if installed prior to filling. For this reason, it's recommended to allow the pool walls to begin to deflect prior to installing the coping.

Section 3: Parts List

The Apex Coping System contains Front Width Rail kits, Side Rail Kits (for sides AND rear of pool), Rear Corner Kit, Front Corner Kit, and a hardware kit. The number of rail kits included in the shipment is dependent upon the size of the pool. The quantity of components included in the hardware kit is also dependent on the size of the pool.

Qty	Description
1	Standard Apex Coping Hardware kit:
1	Coping Installation Bracket
2	Roll of Double Sided Foam Tape
33	PVC Shim
1	3/16" (5mm) HSS Drill Bit
1	#3 Phillips Head Bit
62	#12 x 2" (51mm) Self-Drilling Pan Head Screw
1	Clear Silicone
62	Coping Plug

Qty	Description
1	Large Apex Coping Hardware kit:
1	Coping Installation Bracket
3	Roll of Double Sided Foam Tape
39	PVC Shim
1	3/16" (5mm) HSS Drill Bit
1	#3 Phillips Head Bit
83	#12 x 2" (51mm) Self-Drilling Pan Head Screw
1	Clear Silicone
83	Coping Plug

Section 4: Additional Materials/Tools Required

Lengths of dimensional 2x4 rot-resistant wood are required to support the outer perimeter of the coping boards at the front of the pool. The amount of lumber required is dependent upon the size of the pool and options purchased.

- Power Drill
- Phillips Head Screwdriver
- Circular Saw
- Tape Measure
- Level
- Utility Knife
- Loose Leaf Paper
- Paper Towels
- 2x4 Block

Section 5: Framing Instructions

If the optional Ascent Skirting is being installed, the walls that are being skirting should be framed at this point (Refer to the *Ascent Skirting Framing Supplemental Guide*). **If the front pool wall has already been framed for Ascent Skirting, proceed to Section 6.**

The Apex Coping requires a wood substrate at the front of the pool to support the front coping boards. The framing must be constructed using pressure treated lumber or a similar rot-resistant wood. The size of the frame is dependent on the coping option purchased. The Standard Apex Coping system requires the framework to extend 12" (305mm) beyond the outside top flange (Fig. 1A). If the Apex Coping with Power Unit Installed Under Coping option was ordered, the framework must extend 18-1/2" (470mm) beyond the top flange (Fig. 1B).

Determine which Apex Coping option was purchased prior to framing. The framing shown below will need to be supported by additional bracing that's appropriate for the skirting material being used.

Framing For Standard Apex Coping

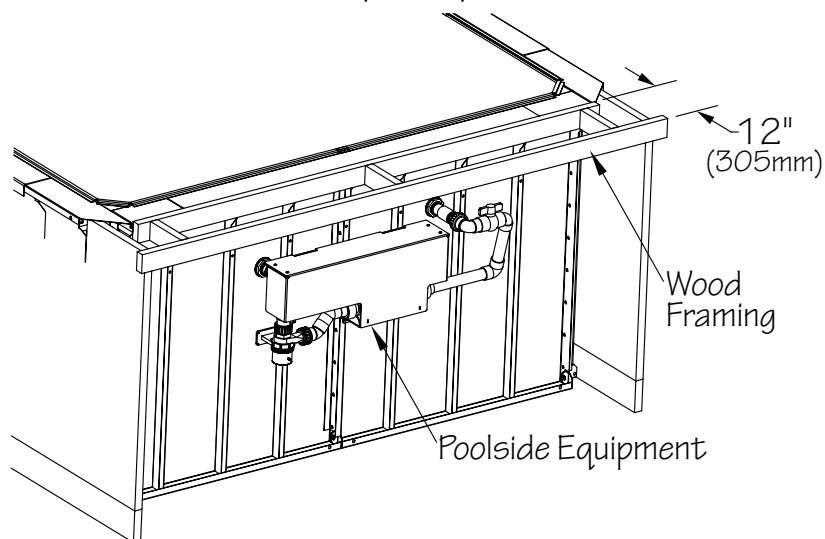


Fig. 1A

Framing For Apex Coping With Power Unit Installed Under Coping

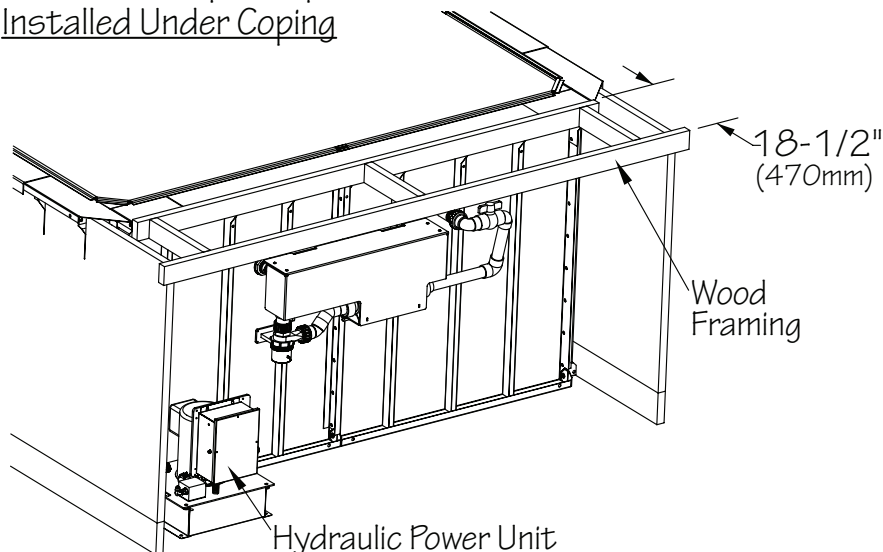


Fig. 1B

Section 6: Apex Coping Plan Views

The illustrations below and on the following page are plan views of the Apex Coping system. There are two coping configurations: Standard and Power Unit Installed Under Coping. The difference between the two is the width of the coping boards at the front of the pool. Refer to the chart and illustration below for the Standard Apex Coping Plan layout or on the following page for the Apex Coping with Power Unit Installed Under Coping Layout.

Standard Apex Coping Plan View

Length/Width	Qty of Coping Boards
6ft (1,83m)	2
7ft (2,13m)	2
8ft (2,44m)	2
9ft (2,74m)	3
10ft (3,05m)	3
12ft (3,66m)	4
13ft (3,96m)	4
14ft (4,27m)	5
15ft (4,57m)	5
16ft (4,88m)	5

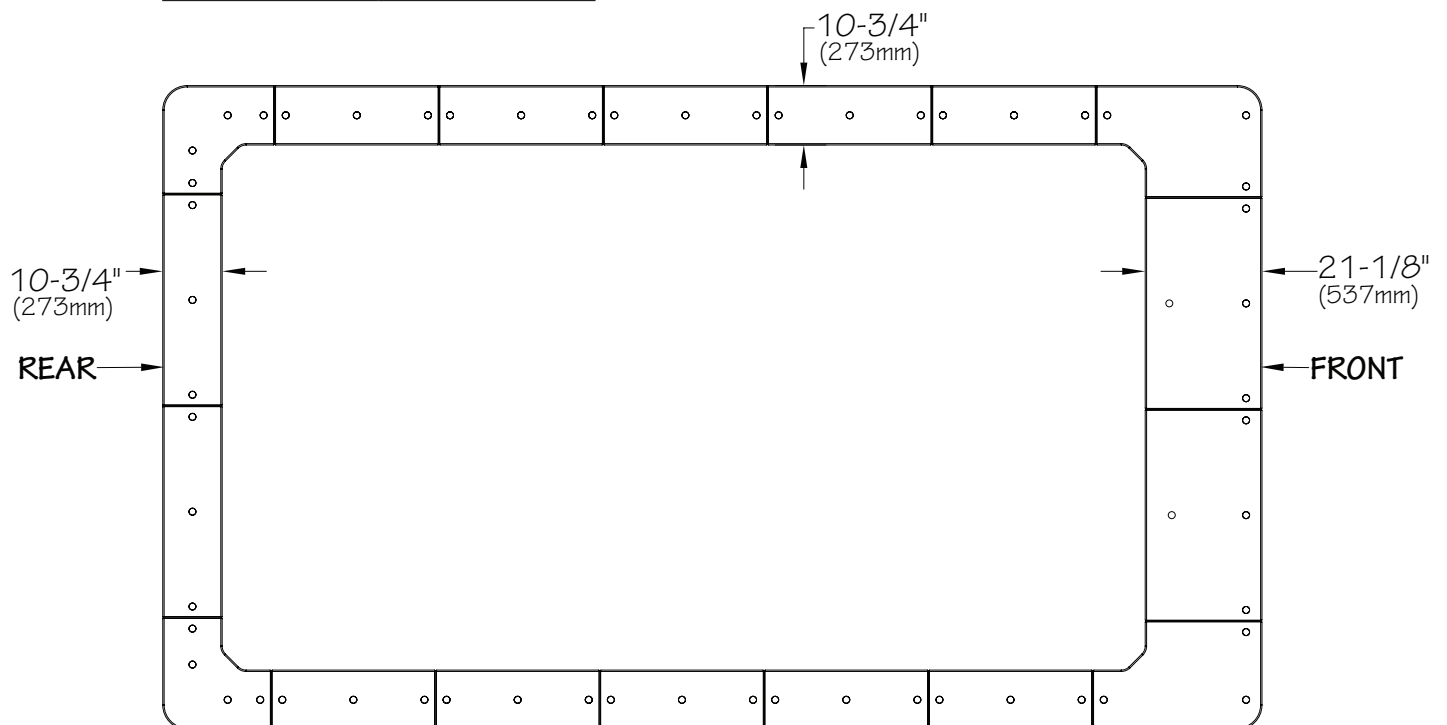


Fig. 2A

Apex Coping with Power Unit Installed Under Coping Plan View

Length/Width	Qty of Coping Boards
6ft (1,83m)	2
7ft (2,13m)	2
8ft (2,44m)	2
9ft (2,74m)	3
10ft (3,05m)	3
12ft (3,66m)	4
13ft (3,96m)	4
14ft (4,27m)	5
15ft (4,57m)	5
16ft (4,88m)	5

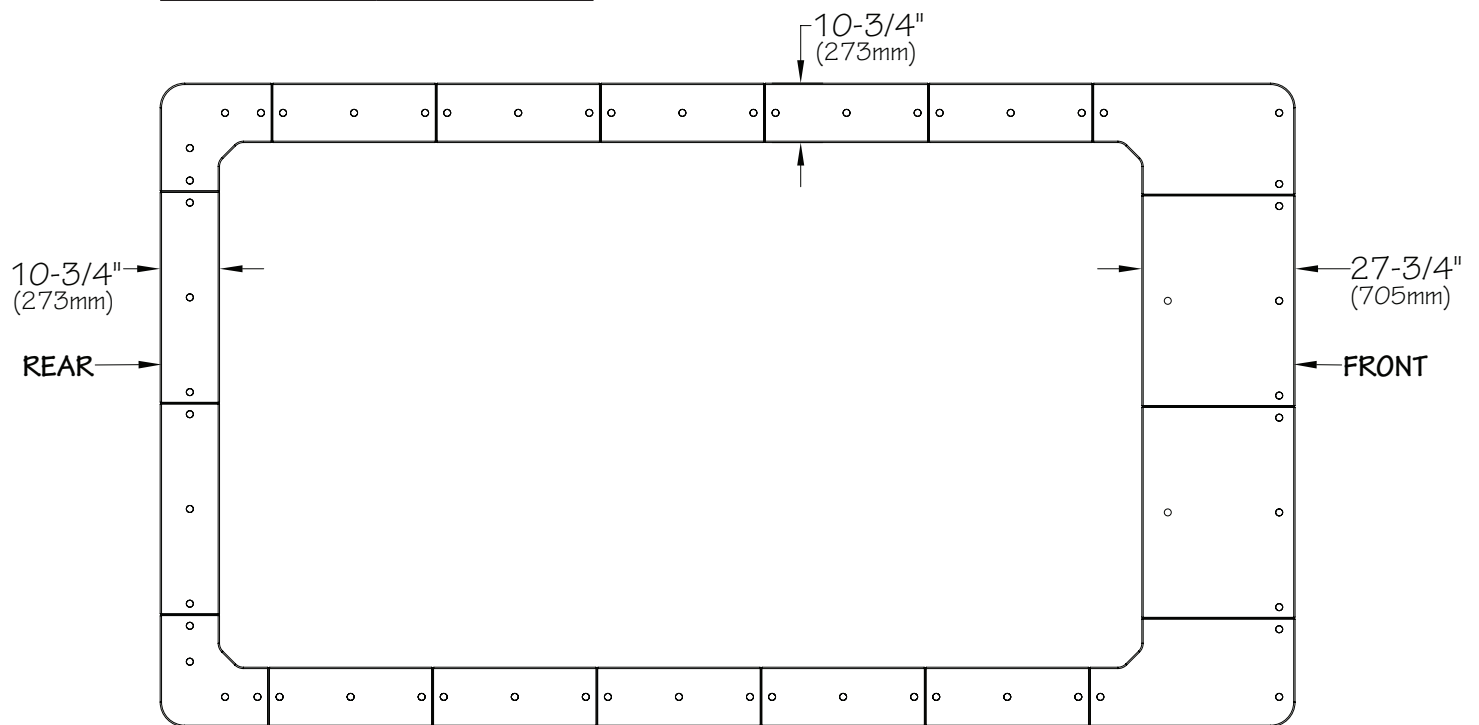


Fig. 2B

Section 7: Installation Instructions

Apex Coping Installation

1. Adhere the Double Sided Foam Tape to the Liner Hanger around the perimeter of the pool. In addition, adhere the tape to any wood framing around the perimeter of the top flange. **Do not remove the protective film from the tape at this time** (Fig. 3).

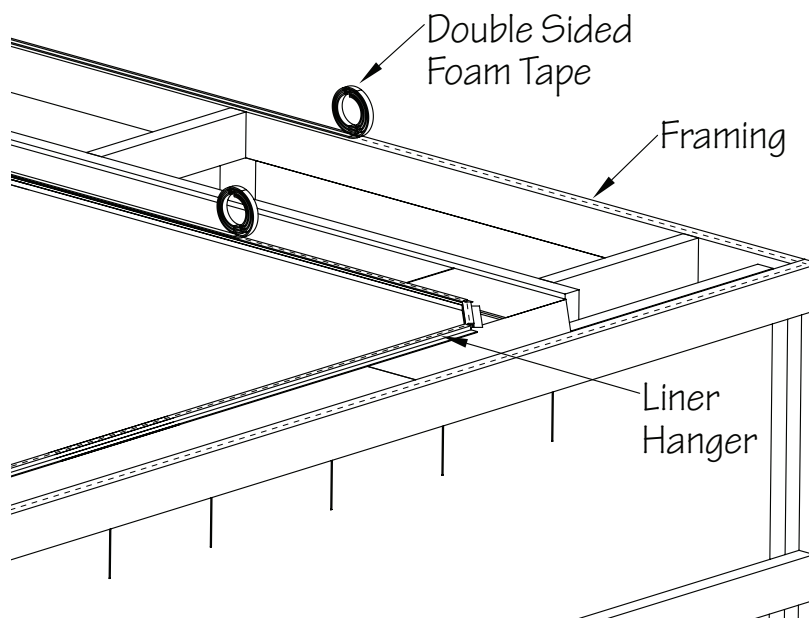


Fig. 3

2. Open the boxes and sort the coping boards. The labels on the boxes specify the lengths and widths that the boards are intended to be installed on. To further identify the side and rear width boards, measure the distance between the two notches cut into the tongue of the board and reference the table below to determine its location (Fig. 4).

Length/Width	Notch Distance (X)
6ft (1,83m)	1" (25mm)
7ft (2,13m)	1.75" (44mm)
8ft (2,44m)	2.5" (63mm)
9ft (2,74m)	3.25" (83mm)
10ft (3,05m)	4" (102mm)
12ft (3,66m)	5.5" (140mm)
13ft (3,96m)	6.25" (159mm)
14ft (4,27m)	7" (178mm)
15ft (4,57m)	7.75" (197mm)
16ft (4,88m)	8.5" (216mm)

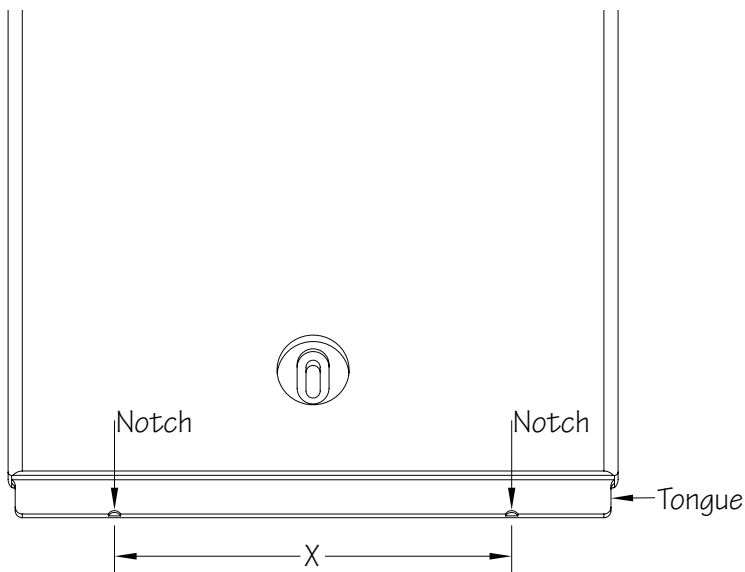


Fig. 4

3. Short lengths of PVC Shim are provided to support and level the coping boards on any inaccessible wall or wall that was not framed for Ascent Skirting. In the illustration below, the rear wall and far side wall are inaccessible, which require shim to make the top flange level with the liner hanger. For walls that are framed for Ascent skirting, the top 2x4 board should be level with the liner hanger.

For walls that require PVC Shim, apply two strips of tape to each shim, remove the protective film from the tape and attach the shims along the outside edge of the top flange as shown in Figure 5.

Loosely layout the coping system with an approximate 1/2" (13mm) overhang into the pool. To engage the boards, slide the tongue into the groove of the adjacent board. **Do not remove the protective film from the tape at this time.**

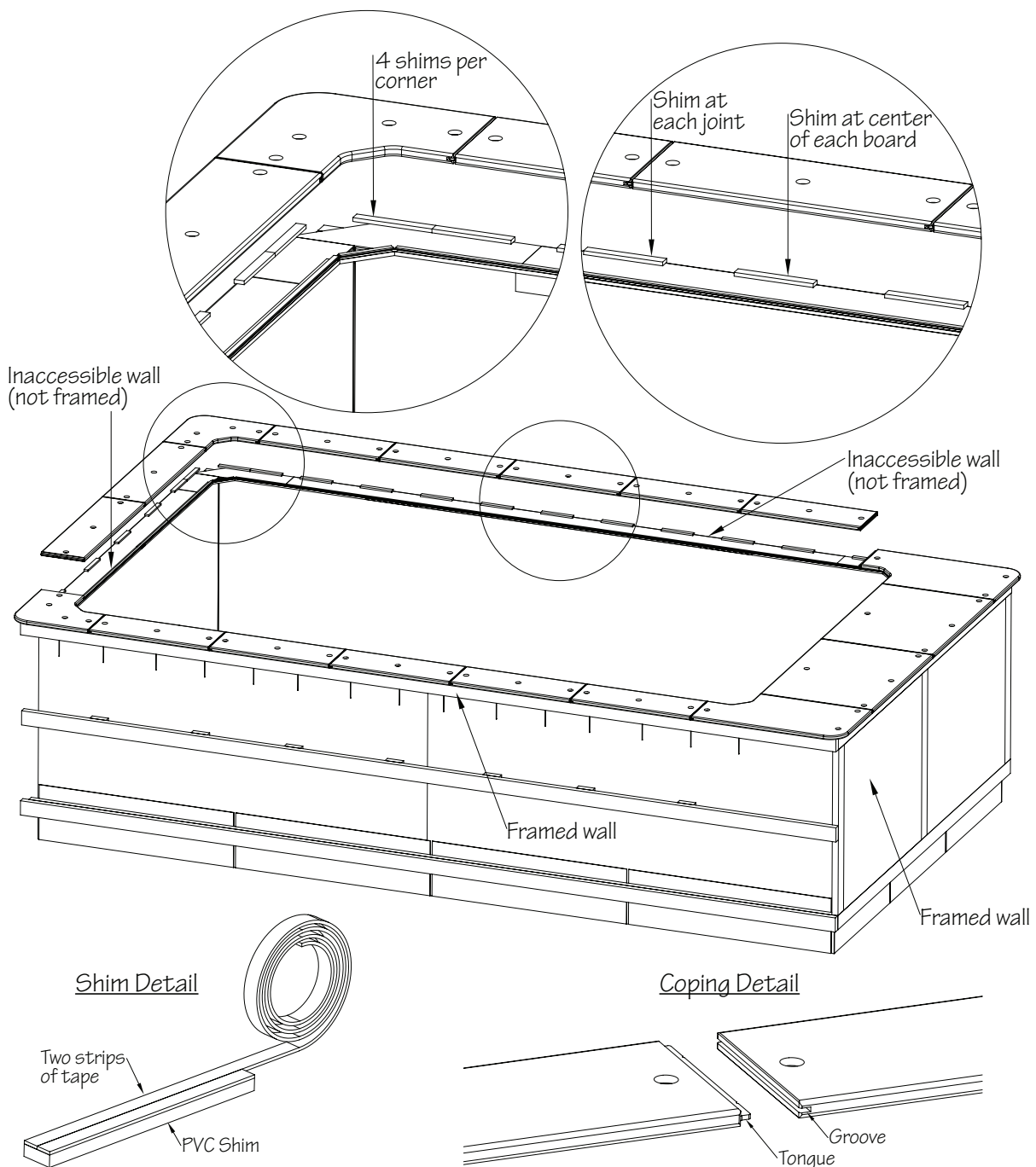
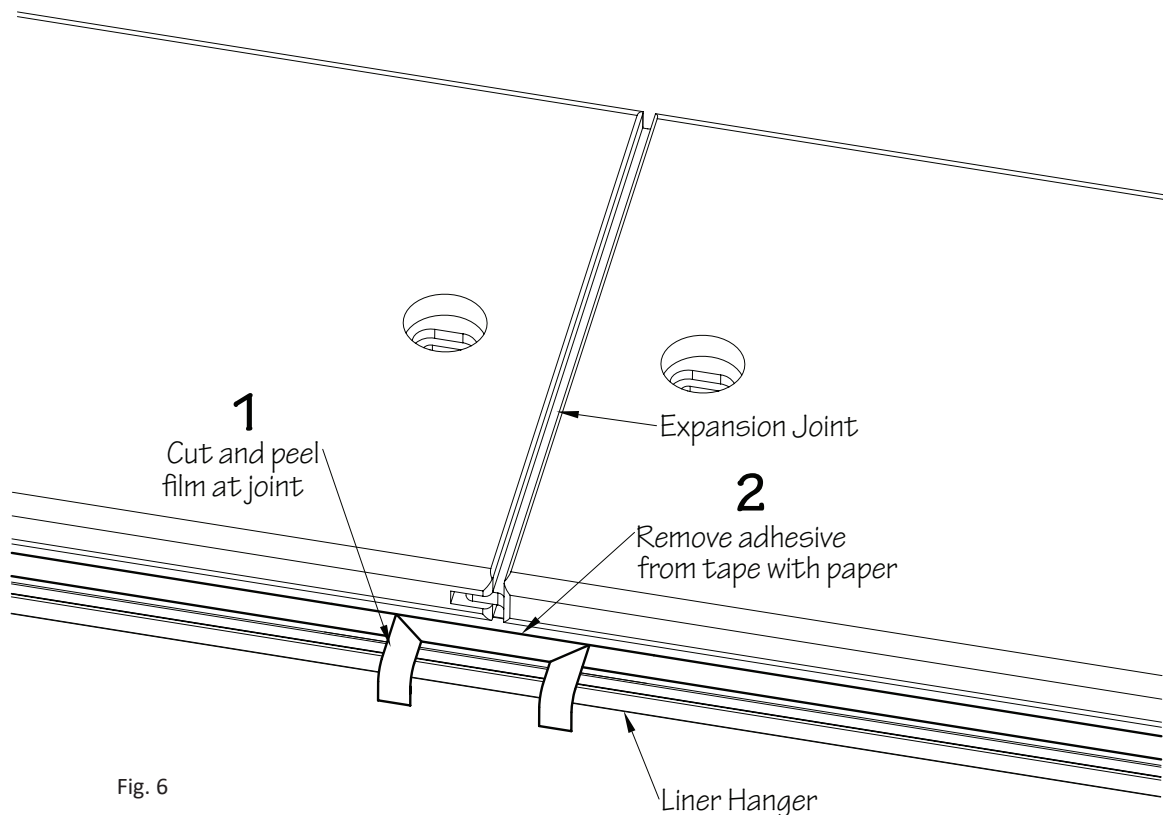


Fig. 5

4. Once loosely positioned, carefully slide the **side boards, rear width boards, rear corners, and front corners** away from the inside of the pool to expose the tape adhered to the liner hanger. **The front width boards (between the front corners) will be adjusted on the following page.** Using a utility knife, make a slit in the protective film of the tape at each expansion joint between boards. Peel the film approximately two inches from the slit and fold as shown in Figure 6 so that two “tabs,” one on each side of the joint, hang into the pool. **These tabs allow you to peel the film once the boards are repositioned over the tape.**

NOTE: If the boards are up against a wall, carefully disengage the tongue and groove at each expansion joint, creating a gap between the boards, to access the tape.

The adhesive from the exposed section of tape must be removed. This is best accomplished by sticking a piece of paper to the adhesive and then peeling the paper, removing the adhesive. Repeat if necessary to ensure adhesive is removed. **The intent of this step is to prevent the boards from adhering to the tape when they are repositioned. The boards will need to be adjusted several times before they are permanently adhered to the tape and fastened to the top flange.**



5. At the front of the pool, carefully slide the width boards (between the front corners) towards the inside of the pool to expose the tape that was adhered to the wood framing. Using a utility knife, make a slit in the protective film of the tape at each expansion joint. Peel the film approximately two inches from the slit and fold so that two “tabs,” one on each side of the joint, are accessible once the boards are repositioned.

Again, remove the adhesive from the exposed section of tape to prevent the board from adhering once repositioned.

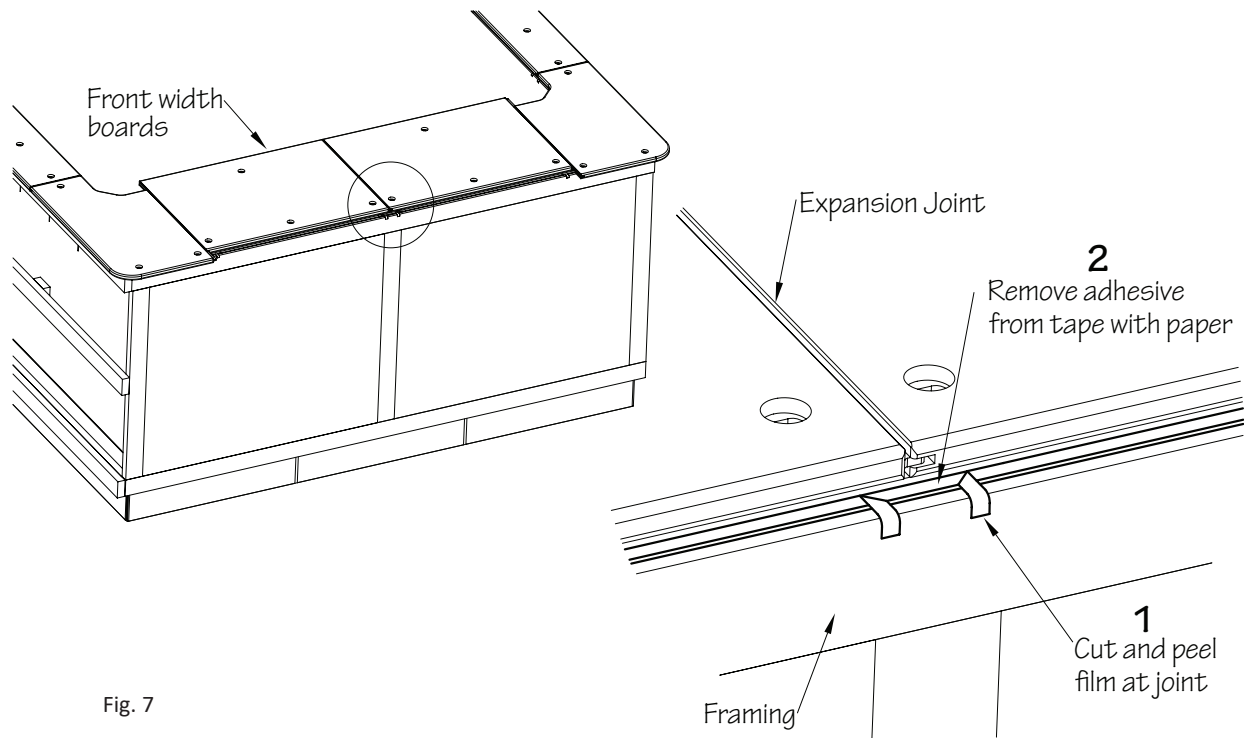
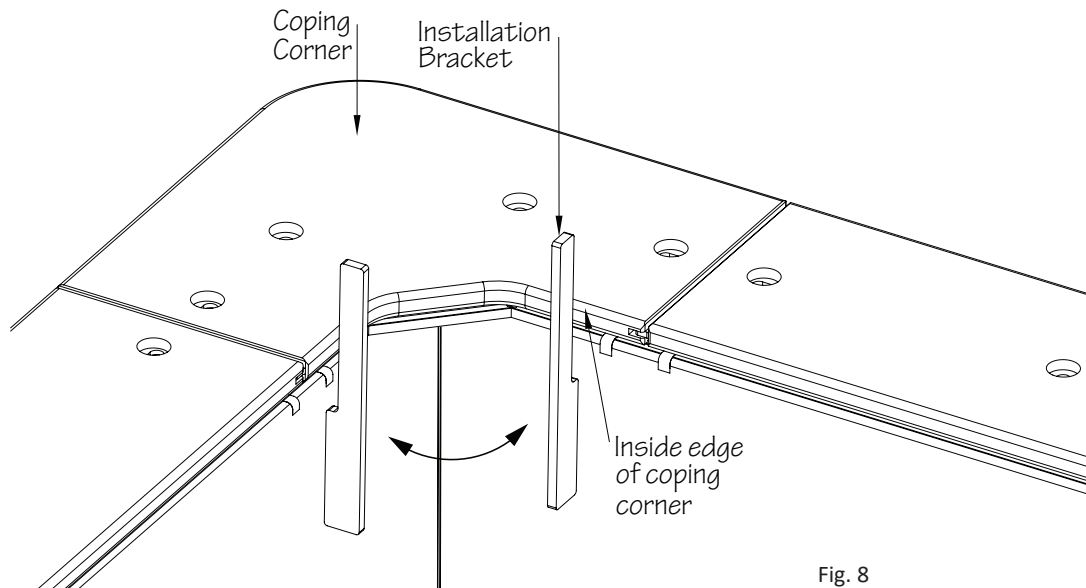


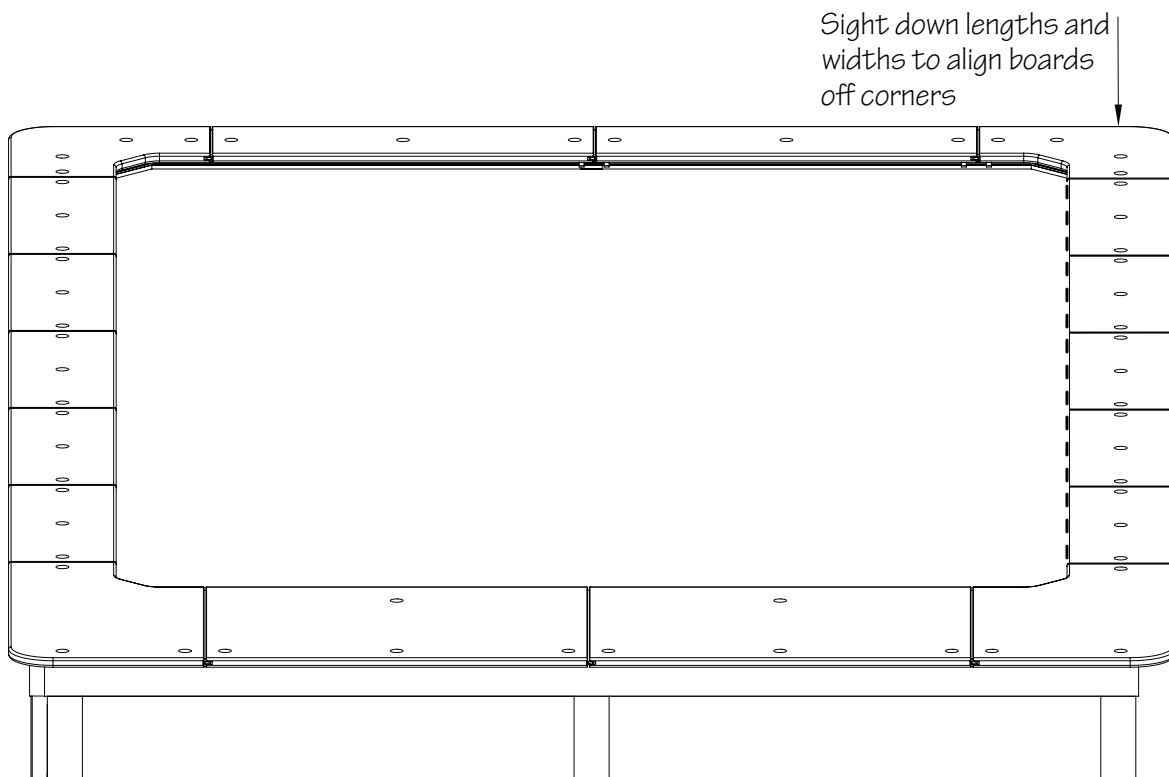
Fig. 7

6. Reposition all boards with an approximate 1/2" (13mm) overhang into the pool, making sure tabs of film are accessible.

7. An Installation Bracket is provided to set the overhang of the front and rear corners. Place the bracket against the inside pool wall as shown and adjust the corner so that the inside edge is making contact with the bracket. Reposition bracket to set the overhang on the adjacent wall. **Repeat for all corners** (Fig. 8).



8. Sight down the lengths and widths of the pool to align the remaining boards off of the corners that were set. **As the boards are being adjusted, continuously verify the overhang of the corners using the Installation Bracket** (Fig. 9).



9. When satisfied with the board alignment, remove the film from the tape under the corner by peeling the tabs. Apply pressure to the inside of the corner to adhere it to the tape. This will prevent the corner from being knocked out of alignment when pre-drilling and fastening it to the top flange. Use the provided drill bit to pre-drill holes into the top flange using the mounting holes in the corner as a template. **Loosely attach** the corner with the provided self-drilling screws using hand screwdriver. **Repeat for all corners** (Fig. 10).

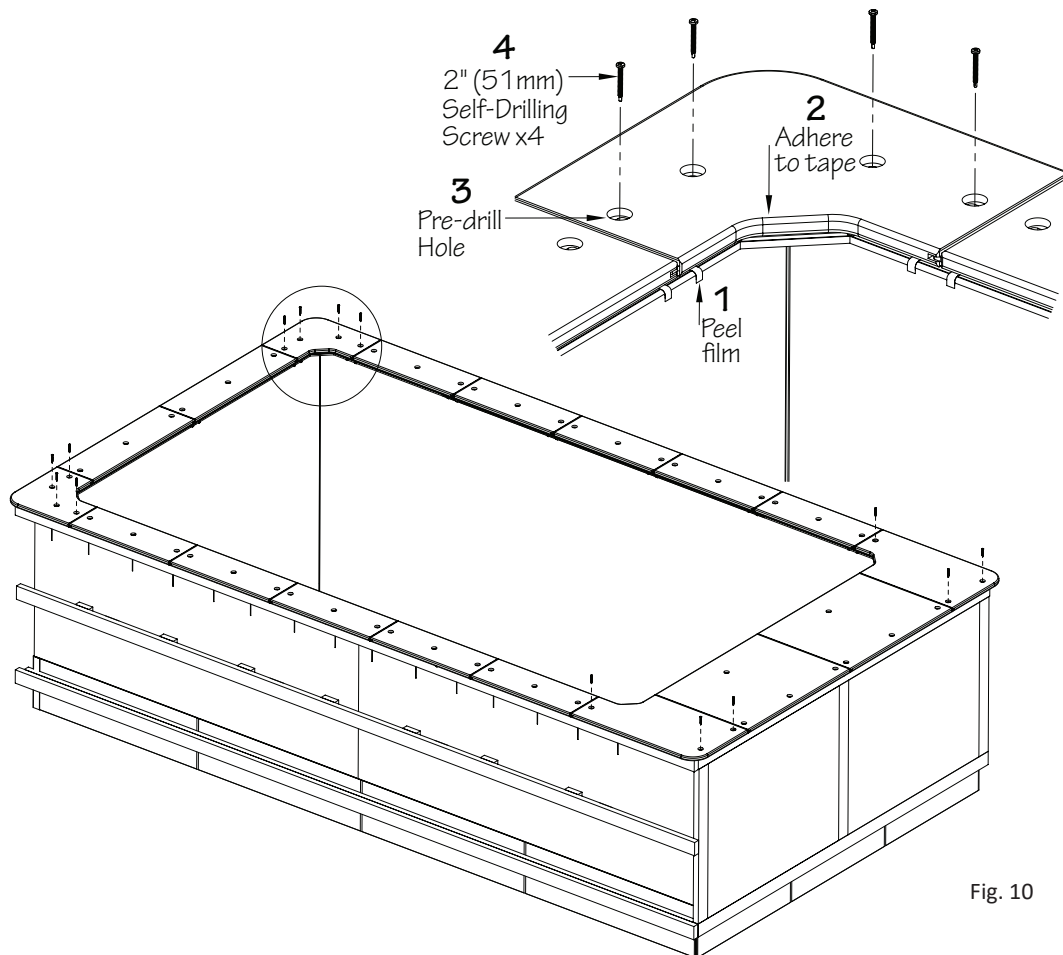


Fig. 10

10. Space the gaps between the boards evenly. Once satisfied with the spacing, sight down the lengths and widths of the pool to verify board alignment (Fig. 11).

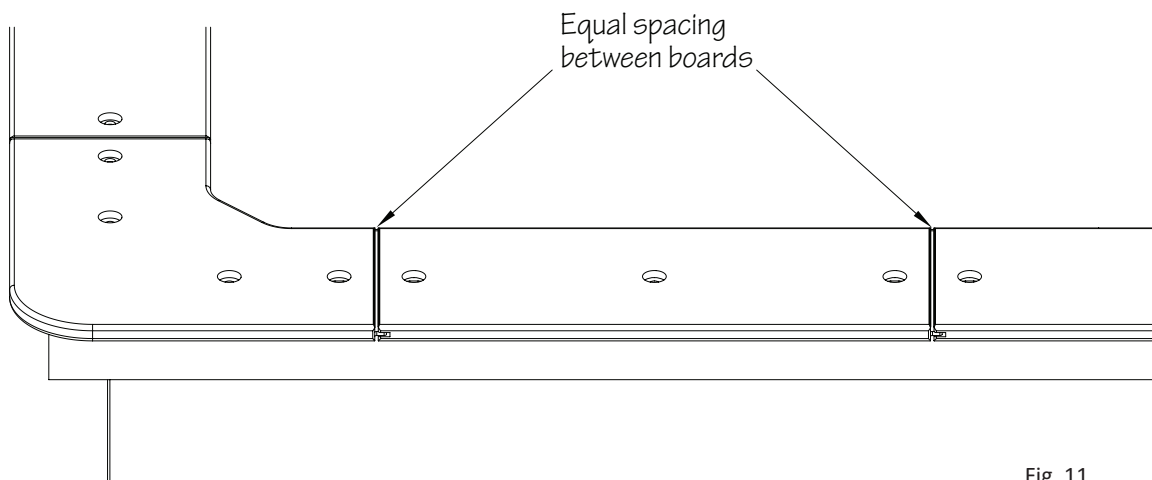


Fig. 11

11. Remove the film from the tape under the coping board. Apply pressure to the board to adhere it to the tape, maintaining board alignment and spacing. Pre-drill holes and attach the board so that screws are snug. Hand tighten or set drill to low torque setting. **DO NOT OVERTIGHTEN SCREWS.** The coping may bow or warp if screws are overtightened. **Repeat for all coping boards** (Fig. 12).

NOTE: At the front of the pool, the film will be peeled from the tabs that were created along the outside framing.

Once all length and width boards are fastened to the top flange, tighten the screws that secure the corners so that they are snug. Hand tighten or set drill to low torque setting.

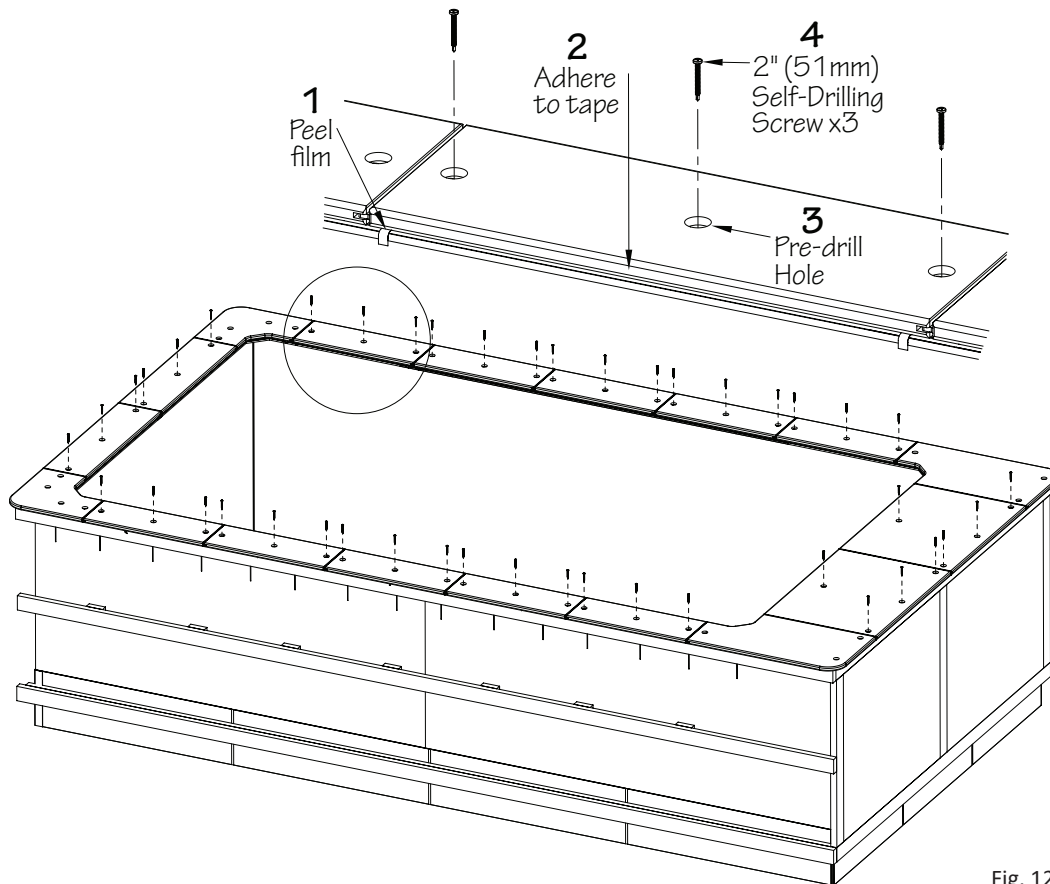


Fig. 12

Concealing the Fasteners

Plugs are provided to conceal the holes in the material for the fasteners, giving the top surface of the Apex Coping a clean and finished look. It's recommended to use the flat surface of a 2x4 piece of lumber to seat the plugs in the hole.

1. Apply a heavy bead of silicone around the inside perimeter of the hole in the coping material.
2. Making sure the finished side of the plug is facing up, carefully insert the plug in the hole. **DO NOT FULLY SEAT IN HOLE.**
3. Carefully recess the plug using a wood block, making sure it's flush with the coping board. **ONCE INSTALLED, AVOID TOUCHING THE PLUG. IT MAY TAKE SEVERAL DAYS FOR THE SILICONE TO FULLY CURE.**

NOTE: Spare plugs are provided in the event that the plug sinks further into the hole than desired. To remove, partially drill into the plug with a self-drilling screw and lift plug out of hole.

