

# HALE PET DOOR™

## INSTALLATION INSTRUCTIONS

### WALL MODEL

Please read these instructions carefully and completely before attempting to install your pet door; they will guide you through the steps and precautions needed for a wall installation. Photos and illustrations have been added to help our customers understand various instructions. To reach an experienced installer for free consultation, please call 1-800-646-4773. Hale Pet Doors are designed for ease of installation and are ideal for masonry or wood framed homes. Any person with a working knowledge of power tools and basic home construction can install the Hale Pet Door. It is important to note however, that the product warranty may be affected if returns have been modified in any way other than specified by these instructions. The door must be properly installed and caulked to prevent moisture from entering your walls. If you have questions or problems, please call us or contact a professional in your area.

NOTE: These instructions are written for wood or metal stud framed wall installation. Your Hale Pet Door™ “wall model” can also be installed in any brick or block wall construction and with exterior brick, stucco, or siding.

#### A SAFETY REMINDER!

**Always wear eye protection and gloves when appropriate.**

**Step 1:** Before installation, be sure that you have the proper size pet door for your pet. If in doubt larger is better. It may be harmful for your pet to use a pet door that is too small. A good general rule is to install the pet door so that the distance from the floor to the top of the passage opening is above the shoulder of your largest pet. Remember that there will be a short tunnel for your pet to navigate. You don't want them to have to crawl through or hunch over as this can hurt an animal's hips.

**Step 2:** Take a brief look at the large illustration of the wall model and become familiar with various components of the pet door wall model. This will not only help in understanding the terms used in these instructions but can be very useful should you need to call for technical support.

**Step 3:** Check the package you received to make sure that it contains all necessary parts.

Complete Kit includes:

Instructions	Warranty	5/8" #6 Phillips head screws
Nylon carpet	Flashing	GE Lexan® security cover
7/64" drill bit		
Hale Pet Door™ wall model (includes inner frame with attached tunnel and outer frame)		
Raincap included but use is optional		

Tools you may need: (varies depending on type of wall into which you are installing pet door)

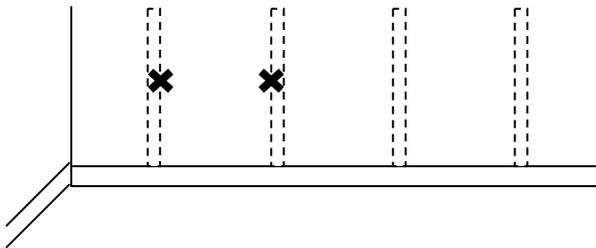
Drop cloths	Caulking	Caulk gun
Drywall saw	Tin snips	Electric drill
Stud finder	Pencil	5/16" Masonry bit
24" Level	Tape measure	Blue masking tape
Reciprocating saw	Circular saw with wood or masonry blade	

**Step 4:** Find a suitable area for the wall model. Most wall models have a vertical lifting security cover (**side loaded cover models are available as needed**). Make sure the area has no obstructions to hinder the removal of this cover. For installation in a framed wall, try to place the pet door between studs; a stud finder makes finding stud locations easy. Mark the stud locations and if possible, center the pet door between the studs. Look at the preferred location from both the inside and outside of the wall for signs that wiring, cable or plumbing may be inside the wall. Keep in mind upstairs bathrooms may have plumbing in the lower level walls.



Use a stud finder if necessary

**CAUTION:** Cutting a power line leading to an outlet or light switch or hitting a plumbing pipe with power tools can result in severe injury or death.



Studs in an exterior wall should be 16" on center, giving you 14" of room between studs.

**Step 5:** Lay down drop cloths on both sides of the wall where you will be installing your pet door to make for easier cleanup after installation. You may also wish to tape the interior drop cloth to the baseboard with blue masking tape. This will help prevent any debris from falling into the crack between the drop cloth and the carpet.



**NOTE:** You may wish to reverse steps 6 and 7. Pencil marks can be difficult to remove from walls and you may wish to cut a small hole in the wall to check for obstructions before you draw the entire pattern.

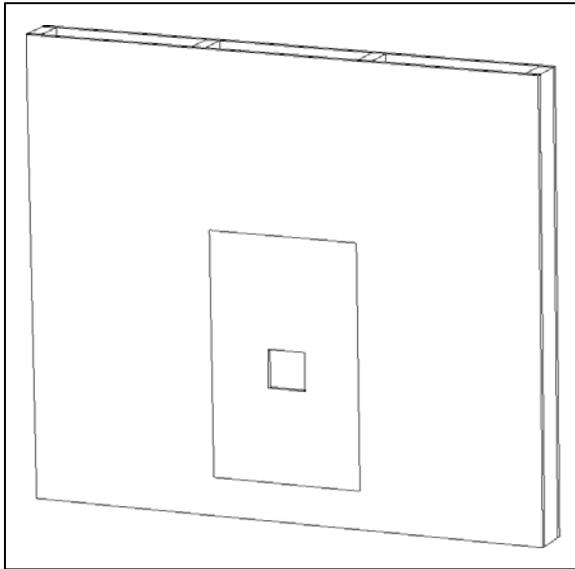
**Step 6:** Draw a pattern on the inside wall according to your pet door size with a pencil. Wall openings are listed below according to pet door size. For special size pet doors the opening may be determined by measuring the tunnel. Make sure your opening is square and level.

Pet Door Size	Rough Opening Width x Height
Small	7 3/8" x 9 3/8"
Small Medium	8 1/2" x 11 1/2"
Medium	10 1/2" x 14 1/2"
Tall Medium	10 1/2" x 18"
Large	13" x 18"
Tall Large	13" x 21 5/8"
Tall Large Plus	13" x 25 5/8"
Extra Tall Large	13" x 29 5/8"
Extra Large	16" x 21 5/8"
Extra Large Plus	16" x 25 5/8"
Giant	17 5/8" x 29 5/8"



Measure and mark the hole carefully, making sure it is square and level.

**Step 7:** Open a small hole somewhere near the center of the drawn pattern on the inside wall as shown below in the drawing or at the bottom of the area as shown in the picture. Shine a flashlight through the opening and look for obstructions within the wall. The small opening is much easier to patch should obstructions be found. If nothing is seen or if the



Look and feel for obstructions through a small hole before you cut out the entire hole for the pet door



insulation is blocking your view, you may reach inside the wall and feel for obstructions that may not have been seen.

**Step 8:** If the wall area is clear then you may proceed to cut the inside wall within the drawn pattern; a drywall saw is most generally used on the inside. Push the insulation up into the wall above and/or beside the rough opening. You may wish to replace the cut out piece of



Cut the opening with a drywall saw.



Remove interior piece of drywall and save.

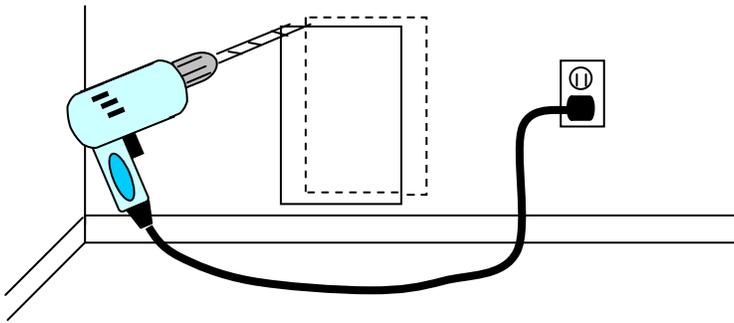


Push the insulation into the wall out of the way.

sheetrock back into the rough opening temporarily and lean the pet door against it to hold it in place. This will help prevent dust being blown into the house when you cut the exterior wall.

**Step 9:** Proceed with the wall cutout by drilling completely through the outer wall from the inside at each corner of the cutout pattern. A long drill bit may be required to do this. (A 12" long drill bit can usually be purchased for \$4-\$8 to help with this.) Be sure the drill is held straight so that the inner and outer holes are drilled in-line. If you have exterior brick or

stucco walls, be sure to use a masonry bit rather than the same bit you used on the interior wall.



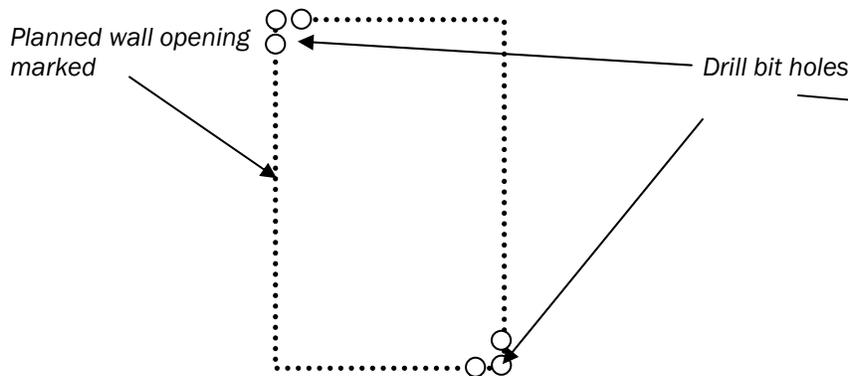
Drill reference holes to the outside wall at the corners.



Measure and mark the outside wall carefully

**Step 10:** On the outside wall, find the reference holes you drilled in Step 9 and draw your square on the wall. Again, measure carefully and make sure the exterior opening is both square and level and in line with the interior opening you previously cut.

**Step 11:** Drill out two corners diagonal from each other (**top left and bottom right OR top right and bottom left**). Depending on the construction of the wall you may want to use a 7/8" flat blade boring bit (**for wood surfaces**) or a 5/16" regular bit. If you use a 5/16" bit, drill three holes close together (**shown below**) then wiggle the bit until you have connected the three holes. This will allow you enough room to get a reciprocating saw blade into the holes. (**You can also drill the holes on all four corners if desired, to make it easier to cut down and across with the reciprocating saw rather than sawing upwards.**)



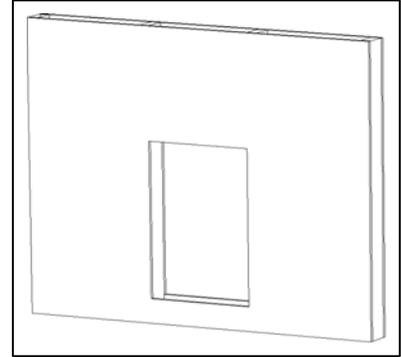
Drill out corners first to make it easy to insert saw blade.



A reciprocating saw easily cuts the exterior hole, although other types of saw can be used.

**Step 12:** After the holes (from Step 11) are connected, use a reciprocating saw to cut out the rough opening along the marked lines. If you do not have a reciprocating saw, you can use a key saw or circular saw to start the hole and a hand saw to cut out the entire rough opening. If you are cautious, a circular saw can be used on the outside wall. Use the proper blade for the circular saw depending on the type of outside material being cut.

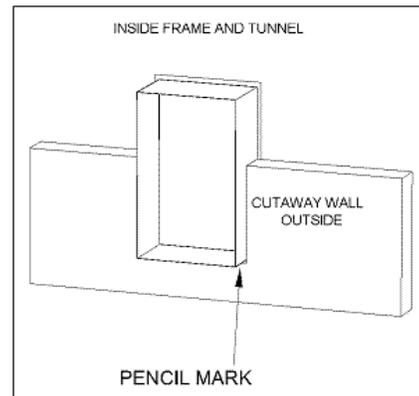
For example, we recommend using a diamond blade to cut through stucco. There is no need, nor is it advisable, to frame the inside of the wall cutout. The Hale Pet Door™ Wall Model is completely self-framing. After the opening is cut from the outside, remove the interior piece of sheetrock from the inside hole.



**Step 13:** Place the inside frame with attached tunnel through the wall cutout. From the outside, reach through the opening and hold the inside frame tight against the wall. Mark the tunnel with a pencil along the outside wall on all sides as shown.



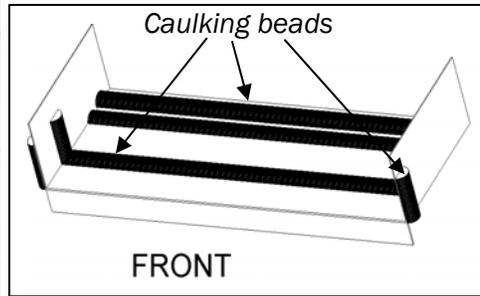
Hold pet door tightly against interior wall and mark with pencil from exterior to get correct tunnel depth.



**Step 14:** Remove the interior pet door frame and tunnel from the hole. Carefully cut the tunnel along the pencil mark with metal snips to make the tunnel the correct depth for your wall. Be cautious when cutting metal so you don't accidentally cut yourself on the removed piece. Discard the metal strip that you have cut off the tunnel.

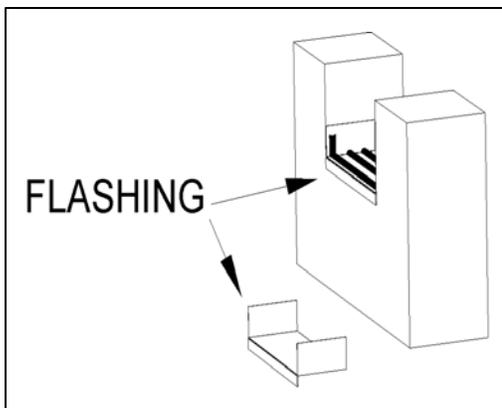


Use tin snips to cut the tunnel to the correct depth.



**Step 15:** The “Flashing” is a thin piece of aluminum with three flanges designed to aid with water containment and diversion. Caulk the flashing with latex caulking as follows: Apply two large beads on the bottom approximately 1/2" from the rear and another generous bead on the bottom and sides approximately 1" from the front. Apply a bead on the outside of both vertical flanges at the front. The bottom pre-drilled holes of the outer frame should sit directly above the bottom front bead of caulking when it is installed.

Caulk the flashing before inserting into exterior hole.

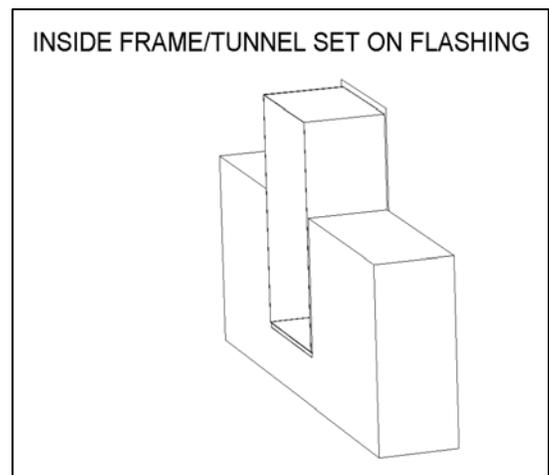


**Step 16:** Place the flashing into the bottom of the wall opening. The flashing should have the two side flanges pointing upward and the outside flange downward and against the outside wall as shown.

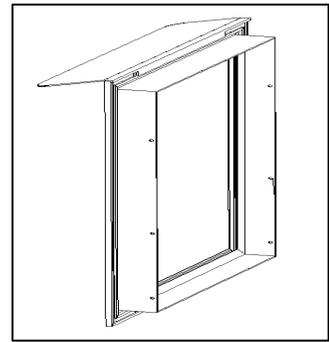


**Step 17:** Insert the inside frame and tunnel back into the opening. From the outside, pull the inside door frame tightly against the inside wall and push the flashing snug against the outside wall.

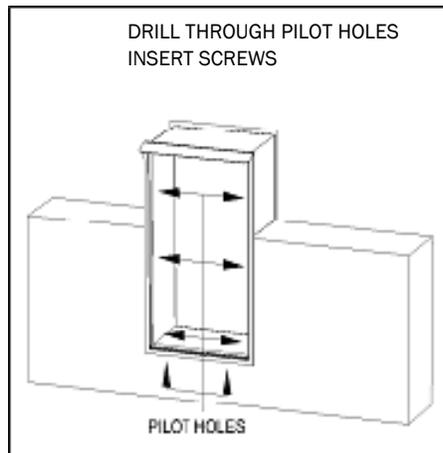
Make sure you pull the inner frame and flashing tightly against the house walls.



**Optional Step:** The raincap attachment is a Hale exclusive design to aid in water containment and diversion. If your pet door is being installed in a protected area (i.e. indoors between two rooms, under a covered porch, etc.) you may omit this step. The raincap is designed to keep water out of the pet door itself and is not required for installation. If you choose to use the raincap for your wall installation, attach it at this point as shown in the graphic to the right. It should simply hook onto the top of the outer frame.

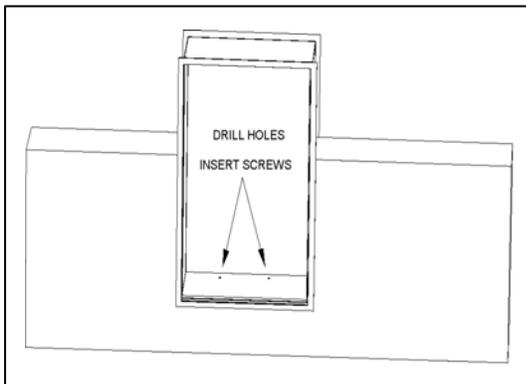


**Step 18:** Sleeve the outside frame into the tunnel. With both pet door frames firmly pulled against their respective walls, drill two more holes through the tunnel and bottom flashing using the supplied 7/64" drill bit and the existing pre-drilled holes (in the outer frame) as guides. Insert supplied screws into the drilled holes. Next, drill holes in the sides of the tunnel again using the pre-drill holes (in the outer frame) as a guide. The number of side screws varies with the size of the pet door.



Sleeve outside frame into tunnel and pull firmly together.

**Step 19:** Drill two holes through the bottom of the tunnel evenly spaced and approximately 2" to 2 1/2" back from the inside of the outer frame using the supplied 7/64" drill bit. Insert the 5/8" #6 screws provided and tighten to attach the flashing to the tunnel.

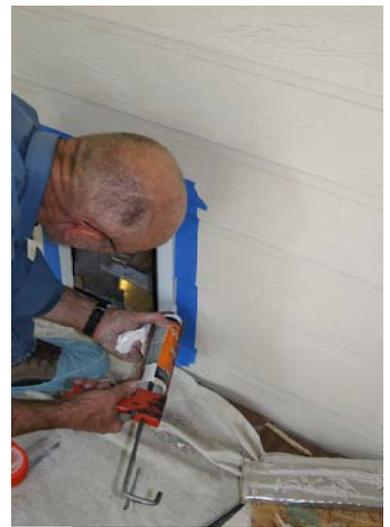


Drill holes into sides and bottom of tunnel and secure with screws. Number of holes will vary depending on the size of the pet door ordered



You should be drilling through one of your caulk beads when attaching the flashing to the tunnel.

**Step 20:** Use a caulking sealer between the outside frame and the outside wall at the top and both sides. **DO NOT CAULK AT THE BOTTOM OF THE OUTSIDE FRAME.** This will restrict the drainage of moisture should any accumulate inside the pet door. You may also caulk around the whole perimeter of the inner frame, if desired, although this is not required. You may wish to outline the door with blue masking tape before you caulk to make a cleaner caulk line and to make cleanup easier. If you do decide to use the tape, allow the caulk to dry for a few minutes before you remove the tape.



Tape and caulk around the door perimeter to seal the pet door. **DO NOT** caulk the outside.

**Step 21:** Measure the width of the tunnel between the door frames and mark measurement on the back of the carpet. Trim the included carpet to the correct width to cover the distance between the door frames. You may wish to dry fit the carpet into the tunnel to verify the width before using adhesive. **NOTE:** The carpet length has been pre-cut for each size of door so you should not have to trim the length. After making sure the carpet is cut correctly, install it into the tunnel using a common construction glue to keep the carpet in place. **DO NOT use silicone to attach the carpet as the odor will not dissipate as it is trapped between the flaps.** To make it easier to install the carpet in the tunnel when the adhesive has been applied, use a caulk gun to apply the adhesive directly to the sides and bottom of the tunnel. Roll the two ends of the carpet inwards and set into the bottom of the tunnel. Carefully unroll one side of the carpet and press firmly to the side of the tunnel and the adhesive. Press the carpet tightly into the bottom corner of the tunnel. Push the carpet against the bottom of the tunnel and work it into the other bottom corner. Finally, unroll the second side of the carpet and press it firmly against the other side of the tunnel.



Apply the construction adhesive directly to the sides and bottom of tunnel.

Roll the two ends of the carpet inward and place in bottom of tunnel.

Carefully unroll the carpet pressing firmly against sides and bottom of tunnel.

**Step 22:** Peel the protective covering from the GE Lexan® security cover and set it aside for a couple of hours before installing it into the front frame. A drying period will prevent the inner flap from sticking to the newly uncovered GE Lexan® security cover. The cover will slide easily into place in the built-in frame and can be easily locked and unlocked with the positive action pin bolt lock.

Installing the standard top loading security cover. It can also be ordered side-loading.



**Step 23:** If desired, place the wall pieces you removed in the pet door box and give to the customer to keep them for possible future use. They can usually be used to patch the wall if the need to remove the pet door ever arises.

**Step 24:** Remove the drop cloths and clean up the area. You may use any standard ammonia free window cleaner to wipe down the flaps and remove any fingerprints or residue from the installation.



Wrap up any installation debris in the drop cloths for easy removal.



Vacuum the area both inside and outside.



Clean both flaps with window cleaner.

## TECHNICAL SPECIFICATIONS:

**Flaps:** Double flaps (one flap on each door surface) made of flexible 3/16" clear PVC vinyl.

**Inner Frame:** Inner frame made of two separate metal extrusions. Three sides entrap the security cover. Both extrusions are .063" wall thickness.

**Outer Frame:** Extruded 6063-T5 aluminum with .063" wall thickness. Designed to sleeve into the inside frame.

**Alnico5 Magnets:** A 1/4" rod magnet 1 1/2" long made from an aluminum, nickel and cobalt alloy known for its strength and durability. Door size determines number of magnets.

**Strikes:** Made of ferrous stainless steel. 1 1/2" long, 3/4" tall and 1/32" thick. U shaped with interior prongs, when pressed onto the vinyl flap, the barbed prongs hold firmly.

**Weather-stripping:** Flap is surrounded by 1/2" nylon pile for maximum insulation. Nylon is woven into a backing 9/32" wide and 1/32" thick.

**Tunnel:** Pre-assembled .040" aluminum wrapped around and riveted and sealed to the inner flange of the inside frame. Attached to outer frame at install.

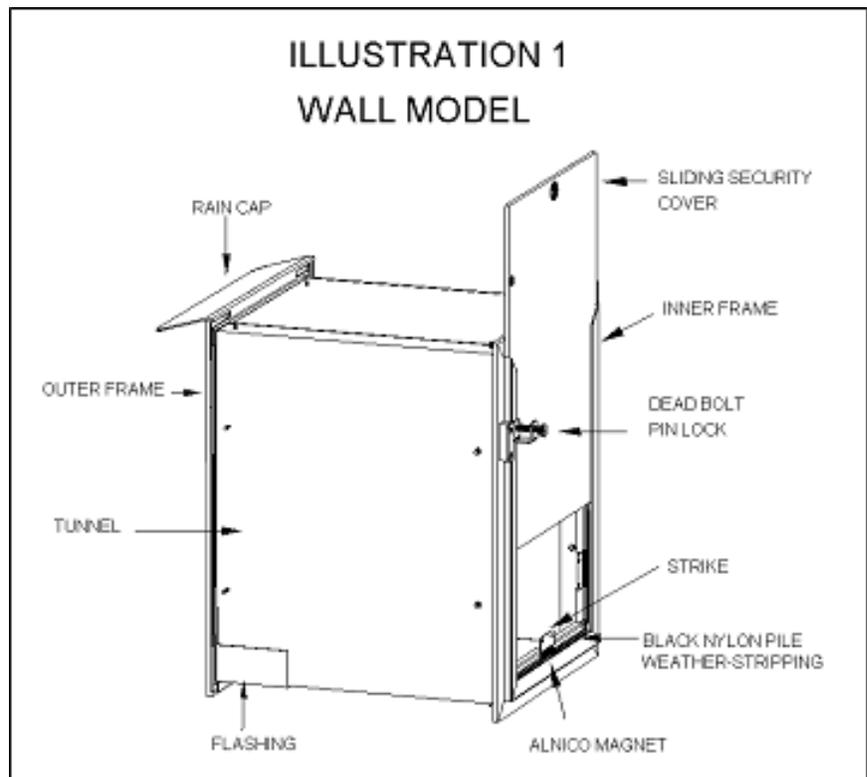
**Security Cover:** 3/16" thick GE Lexan® polycarbonate sheet. Extremely shock and impact resistant. Has a 3/8" diameter locking hole and a 3/4" diameter handle hole.

**Pin Lock:** A 1/4" diameter positive action steel pin encased with 5/32" thick fabricated plated steel.

**Nylon Carpet:** Stain, mold and mildew resistant carpet. Covers both inner walls and bottom of the tunnel.

**Flashing:** Metal strip added to bottom of tunnel to make sure that any water is shunted to the outside of the wall.

**Raincap:** An awning like attachment that hooks to the outside frame for use in diverting water and preventing it from entering the pet door from above. It is included as a standard component of the wall model but its use is optional.



# HALE PET DOOR™

## WALL MODEL INSTALLATION

### EXTERIOR FINISHES

The Hale wall model pet door is designed to be easy to install into almost any wall type. As the following pictures show, it has been installed in walls with various finishes including brick, stone, stucco, vinyl, aluminum, and wood. The installation process is virtually the same for all wall finish types with the variations being the way the exterior surface is cut. Please use the appropriate tools for each job and call for technical support if needed.



Brick

Painted Brick



Stone



Stucco



Vinyl Siding

Aluminum Siding

