



Module and Luxury Bath Installation Manual

For use on the following models:

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GENERAL INSTALLATION

Congratulations! You have just purchased the finest bathing fixture available. Proper installation and maintenance will ensure years of beauty and trouble-free usage. The installation and maintenance instructions are found in this manual and should be read thoroughly before installation begins.

Before installing product, please check the following and read all instructions carefully:

- It is recommended that you read the entire manual before proceeding with installation. Installation tips found in other product installation sections may be useful.
- Check entire unit for damage prior to installation. If there is any damage, DO NOT install. All damage must be reported prior to installation for factory warranty coverage.
- Verify color coordination of bathing unit with other fixtures. DO NOT install if color is not compatible. National is not responsible for color variation after product has been installed.
- **IMPORTANT!** Before you begin installation, ensure that the walls and floors meet the fire and safety requirements of the local building codes and/or FHA/HUD Minimum Property Standards. The following instructions do not take precedence over these standards.
- Casting plaster, mortar beds or other foundations are optional for NATIONAL FIBER GLASS models that have a water capacity of fewer than 40 gallons as the bottom will support a 300 lb. load with minimal deflection. If the model includes a bathing well that holds **40 gallons or more**, a suitable plaster or mortar bed is required under the module.

PRECAUTIONS

- Always use hand truck to transport modules.
- Always use plumbers putty to seal/seat drain to module.
- Always drill from the finished side of fixture to prevent unnecessary damage to unit.
- Do not use interior, cut or trimmed surfaces to test if unit is level and plumb.
- Do not use shipping bolts or remaining bolt holes to install or secure multi-piece units.
- Never use bath mats. The suction adhesion may cause damage to the module finish.

Cleaning

Proper cleaning and maintenance of your gelcoat or acrylic finish will preserve the high gloss finish of the bathing module. Wipe the surface with a soft damp cloth or sponge using a non-abrasive spray or foam bathroom cleanser recommended for the care of fiberglass products. DO NOT use any cleaning products containing abrasives or solvents as these products will damage and dull the surface finish. Harsh chemicals should never be used on acrylic or gelcoat surfaces.

Warranty

National Fiber Glass Products warrants, to the original purchaser, that the White Water Whirlpool System for a period of one (1) year, the G.L.S series shower/bath and the acrylic bathing fixture for a period of three (3) years and the gelcoat bathing fixture for a period of seven (7) years will be free of defects in material and workmanship. See owners manual or contact National for detailed warranty requirements and coverage.

Customer service

Product concerns, maintenance questions or additional information can be received by contacting the

National Fiber Glass Products customer service department by phone or fax.

phone: (815)886-5900

fax: (815)886-5936

ONE PIECE SHOWER/BATH & SHOWER INSTALLATION INSTRUCTIONS

FRAMING AND PLUMBING ROUGH-IN (figure 1)

NOTE: Allow for the complete module including bonnet when framing.

1. Construct a framing pocket with appropriate height(H), width(W) and depth(D) as shown in **fig. 1**. Ensure corners are square and walls are plumb. Provide plumbing access.
2. Install support blocking at mounting flange heights.
3. Finish supply plumbing rough-in. Do not allow rough-in to protrude into framing pocket.
4. **FOR SHOWERS:** Finish drain assembly and rough-in per code.
5. Measure and record locations of valves, spouts and shower arms.
6. Place insulation between studs to reduce noise. (optional)

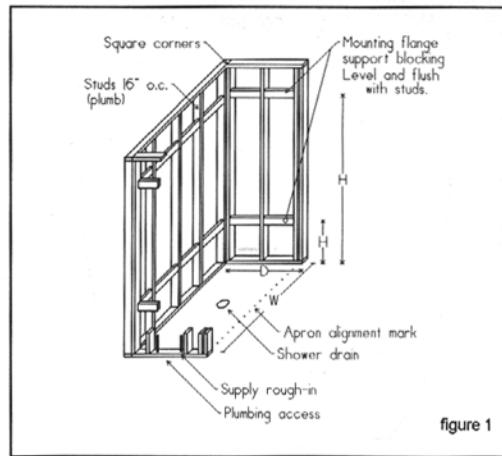


figure 1

INSTALLATION INSTRUCTIONS (figure 2 and detail 2A)

1. Move module to framing pocket.
2. **FOR SHOWER:** Assemble drain hardware to module using plumber's putty. Water tight installation of drain andfaucetry is the responsibility of the installer.
3. **NOTE: Prepare and lay a mortar bed if required.**
4. Tip the top of module forward and slide bottom into pocket.
5. Carefully push the top of module into pocket until the flanges contact framing.
6. Ensuring the apron remains in contact with floor, level and plumb the module shimming as necessary. **Do not use interior, cut or trimmed surfaces to test if unit is level and plumb.**
7. **FOR BONNET:** Place bonnet onto module and check alignment of seam. Shim behind module flanges to minimize variation. Remove bonnet for later installation.
8. Drill pilot holes(1/8") through the reinforced mounting flange 8" on center.
9. Fasten the module to framing using a minimum of 1 1/2" low-profile screws in the following order: (see detail 2A)
NOTE: Verify unit is level & plumb after each flange is secured.
 - a) One at the bottom of each vertical flange.
 - b) One at the top of each vertical flange.
 - c) The horizontal flanges from front to back
 - d) The horizontal flanges across the back.
 - e) The remainder of the vertical flanges.
10. **FOR BONNET:** install bonnet at this point by following the "BONNET INSTALLATION PROCEDURES".
11. Mark fixture locations and drill holes from the finished surface of module.
12. Complete and finish supplies and drain plumbing.

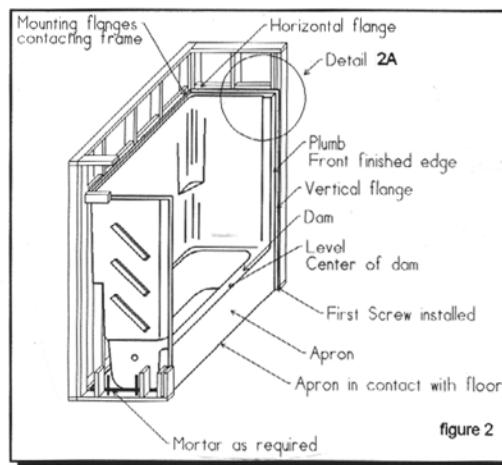
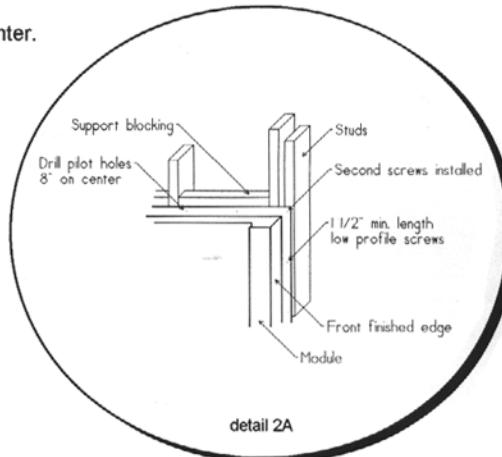


figure 2



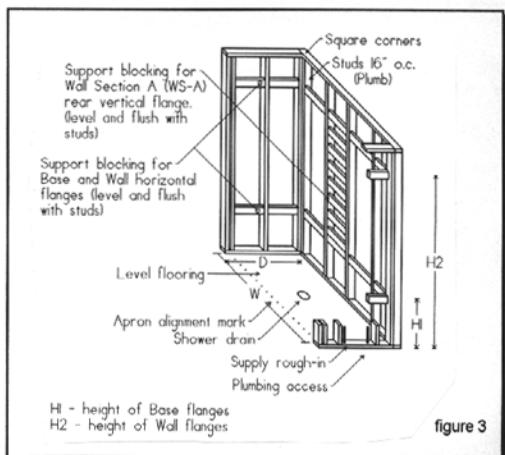
detail 2A

MULTI-PIECE SHOWER AND SHOWER/BATH INSTALLATION INSTRUCTIONS

FRAMING AND PLUMBING ROUGH- IN (figure 3)

NOTE: Allow for the complete module including wall sections and bonnet when framing.

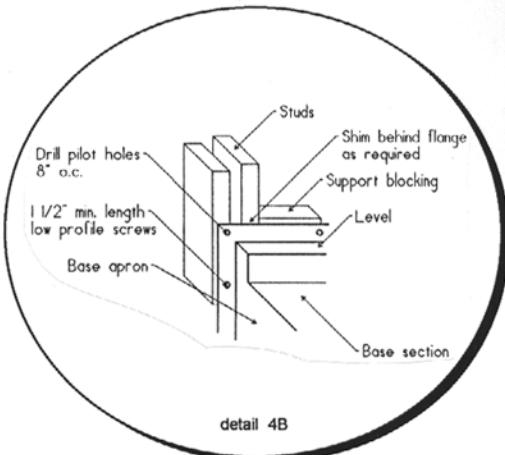
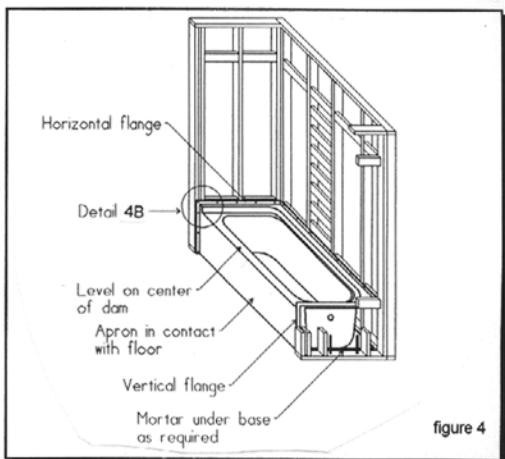
1. Construct a framing pocket of appropriate height (H), width(W) and depth(D) as shown in fig. 3. Ensure corners are square and walls are plumb. Provide plumbing access.
2. Install support blocking at mounting flange heights H1 and H2 to provide mounting surface for base and wall section horizontal mounting flanges.
3. Install support blocking to provide mounting surface for wall section "A" (WS-A) rear vertical mounting flange.
4. Finish supply plumbing rough-in. Do not allow rough-in to protrude into framing pocket.
5. **FOR SHOWERS:** Complete drain assembly and rough-in per code.
6. Measure and record locations of valves, spouts and shower arms.
7. Place insulation between studs to reduce noise. (optional)



BASE SECTION INSTALLATION (figure 4 and detail 4B)

NOTE: For transport purposes, the sections of this unit are bolted. DO NOT use these bolts or bolt holes to install or secure product.

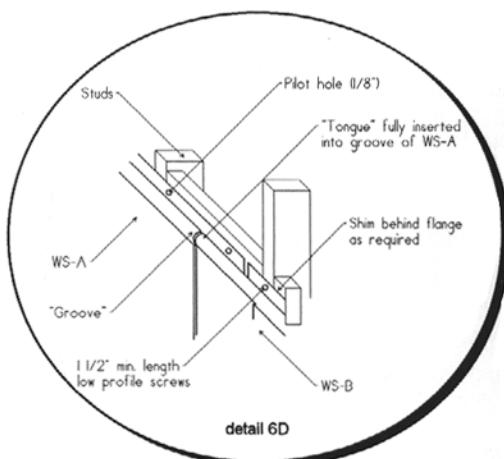
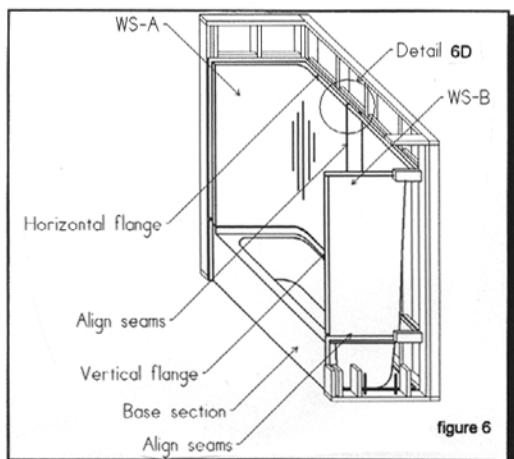
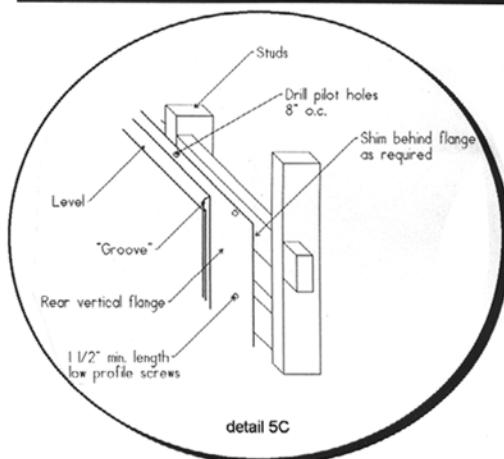
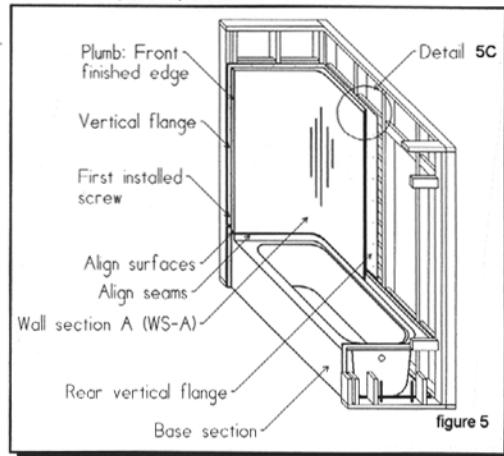
1. Remove shipping bolts and separate components.
2. Move Base section to framing pocket.
3. **FOR SHOWER:** Assemble drain hardware to Base section using plumber's putty. Water tight installation of drain and faucetry is the responsibility of the installer.
4. **NOTE: Prepare and lay a mortar bed if required .**
5. Place Base into pocket ensuring the flanges contact framing.
6. Ensuring the apron remains in contact with floor, level and plumb the Base shimming as necessary. **Do not use interior, cut or trimmed surfaces to test if unit is level and plumb.**
7. Drill pilot holes(1/8") through the Base's reinforced mounting flange 8" on center. Fasten the module to framing using a minimum of 1 1/2" low-profile screws in the following order: (see detail 4B)
NOTE: Verify unit is level & plumb after each flange is secured.
 - a) One at the bottom of each vertical flange.
 - b) One at the top of each vertical flange.
 - c) The horizontal flanges from front to back and across the back.
 - d) The remainder of the vertical flanges.



WALL SECTION INSTALLATION (figure 5 and detail 5C, figure 6 and detail 6D)

NOTE: Of the two Wall sections, the one exhibiting an additional vertical mounting flange is designated Wall Section "A" (WS-A) the other section is hereafter referred to as Wall Section "B" (WS-B).

1. Place **WS-A** onto **Base** and align seams shimming as required. It is recommended that shims be tacked in place to prevent slippage.
2. Place **WS-B** onto **Base** inserting its "tongue" into the "groove" of **WS-A**. Align all seams shimming as required.
3. **FOR BONNET:** Place bonnet onto wall sections and check alignment of seams. Shim behind wall section flanges to minimize variation. Remove bonnet.
4. Tack all shims in place.
5. Remove **WS-A** and **WS-B**.
6. Fill the shipping bolt holes of the **Base** with a fungus resistant (non-mildewing) silicone.
7. Place **WS-A** onto **Base**, align seams and drill pilot holes (1/8") through the vertical and horizontal mounting flanges 8" on center.
8. Ensuring alignment is maintained, fasten **WS-A** to framing using 1 1/2" min. length low profile screws. Start at the bottom of the front vertical flange and end at the bottom of the rear vertical flange.
9. Place **WS-B** onto **Base**, align seams/surfaces and ensuring the "tongue" is fully inserted into the "groove".
10. Drill pilot holes(1/8") through its mounting flanges 8" on center.
11. Ensuring alignment is maintained, fasten **WS-B** to framing using 1 1/2" minimum length low profile screws.
12. **FOR BONNET:** At this point install bonnet following the "BONNET INSTALLATION PROCEDURES" on page 6.
13. Mark fixture locations and drill holes from the finished surface of the module.
14. Complete and finish supply and drain plumbing.



BONNET INSTALLATION INSTRUCTIONS (figure 7)

NOTE: Excess bonnet apron length may be removed with a saw. Carefully cut bonnet from finished side to minimize chipping of finished surface.

1. Reinforce the top of the bonnet apron for its entire width by installing a 2"x4" wood section behind the apron.
2. Place bonnet onto module and align seam. Shim as required.
3. Drill pilot holes (1/8", 8" on center, through the reinforced mounting flanges of the bonnet.
4. Apply fungus resistant (non-mildewing) silicone to seam of bonnet.
5. Fasten bonnet to framing using 1½" minimum length screws.

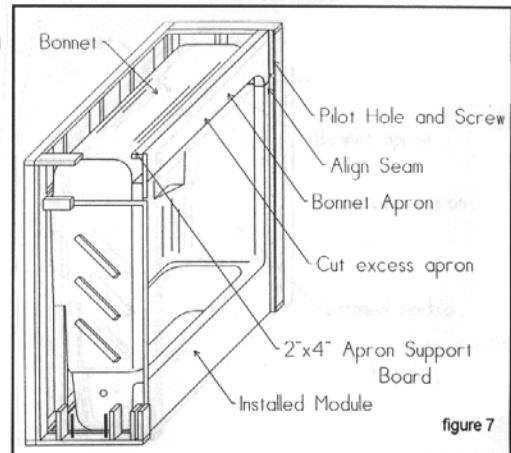


figure 7

LUXURY SOAKING AND WHIRLPOOL BATH INSTALLATION INSTRUCTIONS

LOCAL AND STATE BUILDING CODES MUST BE OBSERVED. ONLY QUALIFIED LICENSED PLUMBERS AND INSTALLERS SHOULD ATTEMPT INSTALLATION.

ALWAYS PROTECT THE BATH SURFACE DURING INSTALLATION AND CONSTRUCTION. INSPECT TUB FOR DEFECTS AND DEBRIS PRIOR TO PLACING PROTECTIVE MATERIALS IN TUB BOTTOM. AVOID WALKING OR STANDING IN TUB DURING INSTALLATION AND CONSTRUCTION.

NEVER USE BATH MATS IN YOUR BATH. THE SUCTION ADHESION MAY CAUSE DAMAGE TO THE FINISH.

WHIRLPOOL BATHS

WHIRLPOOL BATHS REQUIRE ACCESS TO THE PUMP AFTER INSTALLATION FOR FUTURE SERVICE. ACCOUNT FOR 14" HIGH BY 24" WIDE PUMP ACCESS DURING FRAMING PRIOR TO INSTALLATION. FOR ELECTRICAL INSTALLATION AND ELECTRICAL TESTING, PLEASE REFER TO WHITE WATER™ WHIRLPOOL OWNERS MANUAL.

WATER TESTING

NATIONAL WHIRLPOOLS UNDERGO CAREFUL FACTORY WATER TESTS PRIOR TO LEAVING THE MANUFACTURING FACILITY. HOWEVER, DAMAGE MAY OCCUR IN HANDLING THAT CAN CAUSE UNNECESSARY DAMAGE IN THE CONSTRUCTION PROCESS. IT IS NECESSARY TO PERFORM A WATER TEST PRIOR TO INSTALLATION BY FOLLOWING THESE STEPS:

1. CONNECT TRAP TO BATH DRAIN.
2. FILL BATH USING TEMPORARY WATER SUPPLY.
3. CLOSE DRAIN AND FILL TUB 2" ABOVE JETS.
4. TURN ON WHIRLPOOL SYSTEM AND ALLOW TO RUN FOR 10 - 20 MINUTES.
5. CHECK FOR LEAKS.
6. TURN PUMP OFF AND ALLOW WATER TO STAND IN BATH FOR APPROXIMATELY 10 MINUTES.
7. CHECK FOR LEAKS IN STRUCTURE, PIPING AND FITTINGS.
8. DRAIN BATH.
9. TURN OFF POWER TO WHIRLPOOL USING CIRCUIT BREAKER.

IT IS NECESSARY TO PERFORM THIS WATER TEST AS NATIONAL IS NOT RESPONSIBLE FOR DAMAGE THAT MAY HAVE BEEN DISCOVERED AND PREVENTED BY PERFORMING THIS TEST.

GENERAL FRAMING

- 1) Types of installations: a) Drop-in or Deck, b) Framing pocket or a Combination of these methods.
- 2) The flooring under the bath should be level and strong enough to support the bath, water and bather(s). A minimum load rating of 35 lb./sq. in. is required.
- 3) All baths MUST be supported under the tub area.
- 4) Shimming under bathing area may be required to level the bath's deck.
- 5) A mortar bed under the bath is always recommended especially if the floor is irregular or otherwise out-of-level.
- 6) Secondary support for the bath's deck is also required.
- 7) NEVER SUPPORT THE BATH FROM THE DECK OR LIP. Tub should be supported by the subfloor and/or bedding.
- 8) Provide for pump access panel when installing whirlpool baths to allow for future pump service.

DROP-IN OR DECK INSTALLATION FRAMING (figure 8 and figure 9)

1. Kneewalls must be constructed to support the bath deck. Therefore, the deck opening and wall height must be determined. Using figure 8 and the formulas below as a guide, determine the deck opening and kneewall height.

W_0 = Width of tub deck - 1 1/2"

D_0 = Depth of tub deck - 1/2"

H_0 = Height of tub lip + Mortar bed thickness - 3/4"

2. Construct and anchor kneewalls.
3. Complete plumbing rough-in.
4. Fill stud spaces with insulation to reduce noise and absorb vibration.
5. As shown in figure 9 attach 3/4" plywood to the top surface of the framing.
6. Place bath into opening and center. Mark location of bath lip on plywood and remove bath.
7. Prepare and lay mortar bed.
8. Place bath into opening and center using alignment marks. Ensure deck lip contacts plywood.
9. Complete supply and drain plumbing.
10. Complete whirlpool electric in accordance with the White Water™ Whirlpool Owners Manual.
11. Test supplies and drains for leaks and operation of whirlpool.
12. Complete plywood attachment and finish deck using figure 9 as a guide.
13. Fill the seam between the bath lip and tile using a fungus resistant (non-mildewing) silicone.

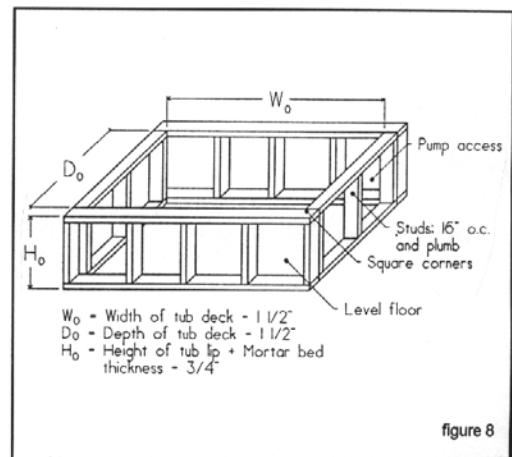


figure 8

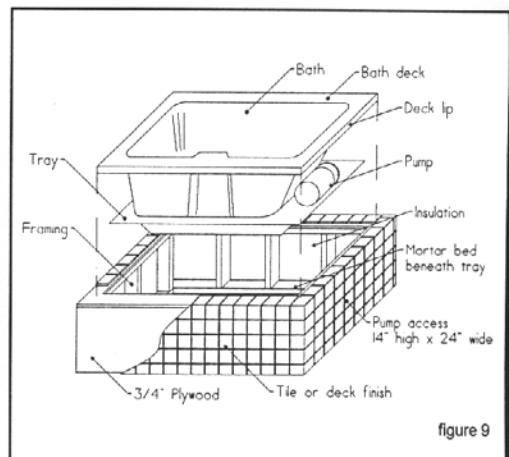
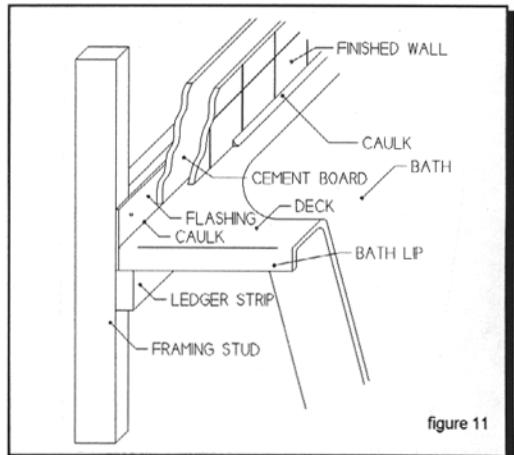
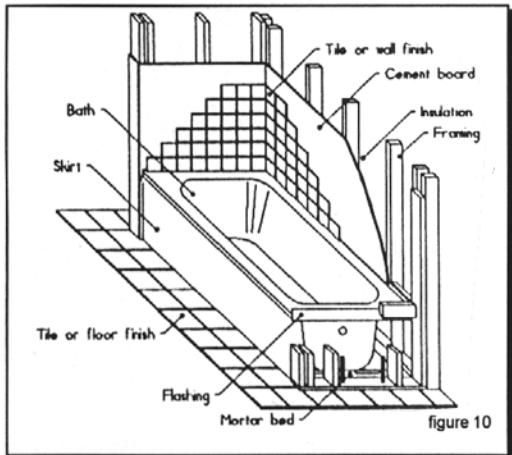


figure 9

FRAMING POCKET INSTALLATION (figure 10 and figure 11)

1. Construct a framing pocket per figure 10 with appropriate height(H_o), width(W_o) and depth(D_o). Ensure corners are square and walls are plumb. Provide plumbing and pump access as required per code.
2. Install support blocking at mounting flange heights.
3. Finish supply plumbing rough-in. Do not allow rough-in to protrude into framing pocket.
4. Move bath to framing pocket.
5. **NOTE: Prepare and lay a mortar bed if required.**
6. Carefully place bath into framing pocket until the flanges contact framing, as per figure 11.
7. Ensure the apron or skirt remains in contact with floor, level and plumb the bath, shim as necessary. **Do not use interior, cut or trimmed surfaces to test if unit is level and plumb.**
8. Drill pilot holes(1/8") through the mounting flange 8" on center.
9. Fasten the bath to framing using 1½" (min.) low-profile screws in the following order periodically verifying unit is level and plumb:
 - a) Once at the bottom of each vertical flange.
 - b) Once at the top of each vertical flange.
 - c) The horizontal flanges from the front to the back.
 - d) The horizontal flanges across the back.
 - e) The remainder of the vertical flanges.
10. Complete and finish supplies and drain plumbing.



WHIRLPOOL SYSTEM INSTALLATION

For electrical installation and detailed whirlpool instructions, refer to White Water™ Whirlpool Owners Manual.

To receive additional information regarding the care or installation of a National Bathing Product, please contact National - phone: (815)886-5900, fax: (815)886-5936 or address: 5 Greenwood Avenue, Romeoville, IL 60446.