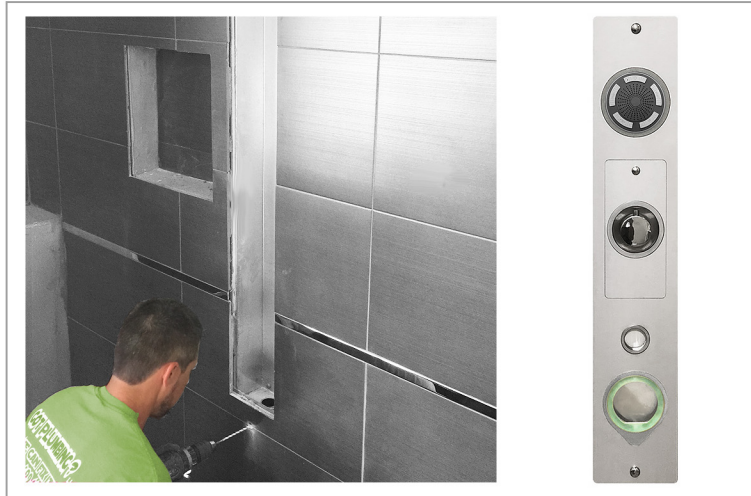


Installation Guide - Solar Flare Model



Before commencing installation **please read this guide carefully** and keep it handy for future reference.

Serene Steam is in compliance with the Uniform Plumbing Code (UPC)
with IAPMO - IGC- 154-2019 Standard.



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Important Notes Before You Begin, *Please Read*

All product parts and system models displayed in this manual may appear slightly different from your system ordered due to product upgrades, enhancements etc. and are subject to change without notice.

Required Parts For Installation

You will require a few general “Off the Shelf” plumbing parts for the installation which are not supplied as these parts will depend on a few factors such as the size water tubing your home uses, or perhaps you are doing a remodel or new construction etc. Once your plumber begins the installation process, he/she should know exactly which parts, or attachments to adapt to the Serene Steam system. Your installation may require further general parts from your local store that may not have been displayed here. (any additional parts that are not listed should be basic, and a plumber or contractor should know).

Additional Notes

Referring to your shower mixing valve (*not any part of Serene Steam*) and only mentioned in reference.

Your independent hot and cold mixing valve as described later, which is used for your main hot and cold shower features, and *NOT any part of Serene Steam*, should be a thermostatic, or pressure balanced valve, and must always open with cold water first when used. This is the preferred mixing valve, and is not connected to, nor required for the Serene Steam system to function in any way, ***this is simply a recommendation*** for your existing hot and cold mixing valve used to control your water flow through your independent shower head.

ALWAYS USE CERTIFIED PLUMBING PARTS WITH SERENE STEAM

The following ***“Off the Shelf” parts are required, and not supplied***

Additional unknown components may be required for your specific shower enclosure



Shark-bite fittings,
angles may vary



16 inch
1/2 fip x 3/8 comp
flex faucet supply



Flexible coupling



GE Iron Grip
silicone is
recommended
for installation
applications



Sanitary Tee



ABS Pipe
Increaser/Reducer



ABS pipe approx.
4-6 feet



RedGard, or alike
is recommended
for water-proofing

For best results, please read

The following descriptions below would be considered the essential requirements for best results when installing, and using Serene Steam.

Your hot water heater setting



Set your water heater to at least 135-140°F for best results. Serene Steam use is *IAPMO Certified & meets IGC-154-2019 standard.*

Your shower water pressure



Standard household water pressure should be between 50 and 55 PSI for best results.

Please check your water regulator is up to code, 50 PSI.

Your shower enclosure



Your shower enclosure should be sealed and adapted correctly for steam use.

May we also recommend



It is recommended to use a water softener and chlorine filter in your home to generally prolong, and protect your water fittings, and enjoy healthier water.

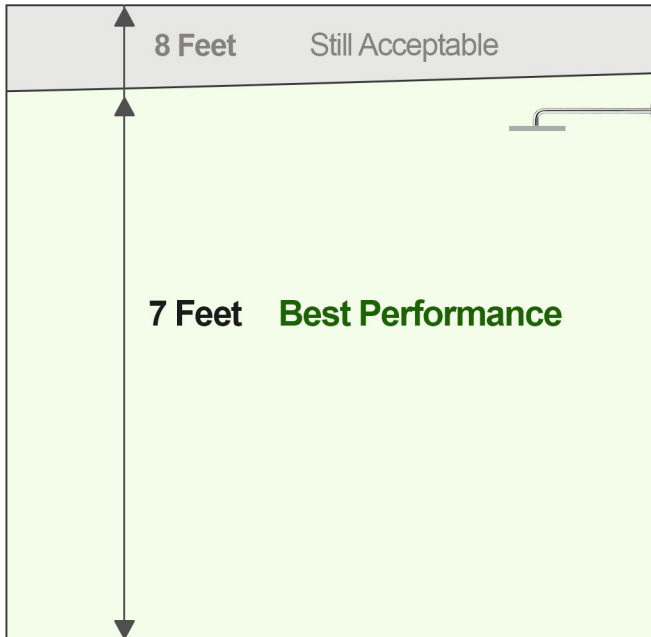


Not mandatory. However, It is recommended where possible to use 3/4 inch Pex tubing for your general household plumbing. You may require a reducing coupling to connect 3/4 tubing to the 1/2 inch connection on the Serene Steam rough-in.

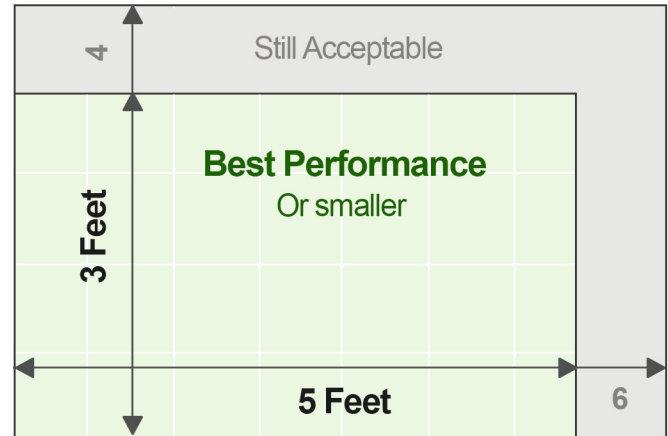
For best results, please read

The following descriptions below would be considered the preferred requirements for best results for your shower size when using Serene Steam.

SLANTED SHOWER CEILING HEIGHT



SHOWER FLOOR



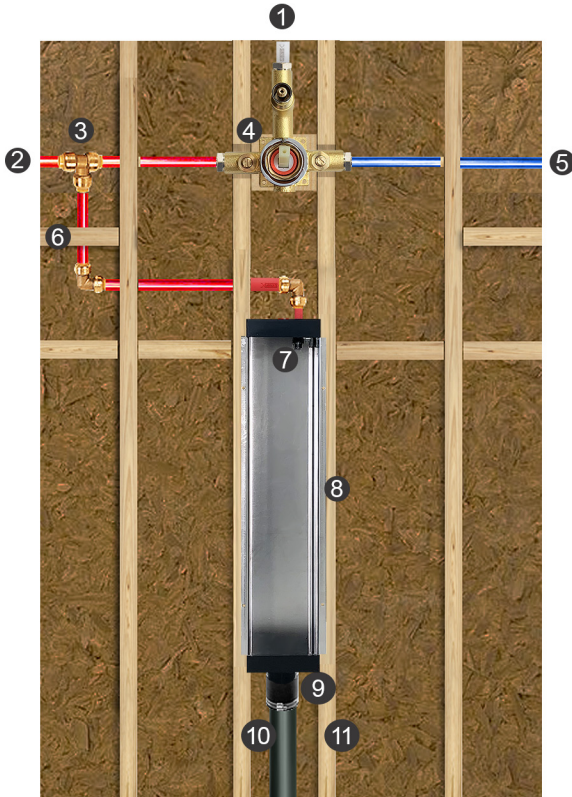
Best Performance = The perfect size of your shower

Still Acceptable = Still effective at this size

Or Smaller = The smaller, the most effective

The image displayed below is *quick reference* of the installation process

Detailed installation guide **must be followed as explained later**



- ① Water line to your shower head (shower head not included)
- ② Main hot water line
- ③ Tee connection on your hot water line flowing to the mixing valve as well as to the Serene Steam rough-in
- ④ Your hot & cold shower mixing valve (not included)
- ⑤ Your cold water line
- ⑥ Hot water line extension to Serene Steam rough-in
- ⑦ Connection point which will connect Serene Steam unit at completion
- ⑧ Rough-in fastened firmly between two studs
- ⑨ Flexible coupling connecting the rough-in to the drainage system
- ⑩ Black ABS pipe, part of your new drainage system
- ⑪ Your main verticle studs to support the rough-in (**MUST be created**)

Please note that this sample diagram may appear slightly different in your construction. However, it depicts an accurate example of a correct structure.

You are now ready to begin installation with the following steps



This is the most important step of your installation - Preparing The Drain

STEP 1

Whether you are remodelling or constructing from scratch, this image displays a typical drainage configuration underneath your shower floor.

← **A BEFORE INSTALLATION IMAGE**

Now add a sanitary tee as shown between the P-Trap and shower drain. Use the correct size fitting for your pipe, typically a 2 inch pipe is used. Now you have access to the tee which will connect to the Serene Steam rough-in.

Once the tee is in place, you will insert an amount of ABS pipe as shown (**at least 4 feet for now**), so that it can reach the Serene Steam rough-in drain connection later. In this process, you are simply creating a pipe structure so that it can connect to the drain section of the rough-in. **Once this vertical pipe connection is in place, its correct location should be in the horizontal center of your shower enclosure for best results, as noted on the next page.**

Drain assembly continued



AN AFTER INSTALLATION IMAGE

This is an animated image of how your new drain structure should now appear.

Please note: make sure that you initially run at least 4 feet of pipe for this vertical section as it will need to reach the rough-in later. It can be trimmed later to the correct height.

Real life images below for reference



This actual installation image displays the complete drain assembly which is connected to your drain using the tee, and located under the shower floor as described earlier.

Please note

This vertical pipe structure should now appear in the ***horizontal center*** of your shower as shown.



This actual installation image shows the tee connected to the P-Trap and drain underneath the shower floor as shown. This is how your drain should now appear.



Drain assembly completion

HERE IS A SAMPLE OF HOW YOUR SHOWER SHOULD NOW APPEAR



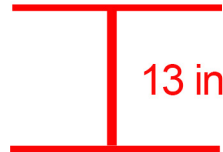
Make sure you have constructed your main vertical studs to support the Rough-in later. These studs and your drain assembly must be in the horizontal center of your shower enclosure as shown here, and mentioned again later.

Your final height of ABS pipe should be 13 inches up as shown.

REMEMBER:

The 13 inches should be calculated from the top of a **COMPLETED TILED** floor.

For example, after you add your floor concrete and tile, then your 13 inch measurement should be from the top of your finished tile.



13 inches from above a tiled floor

Inserting the Rough-In

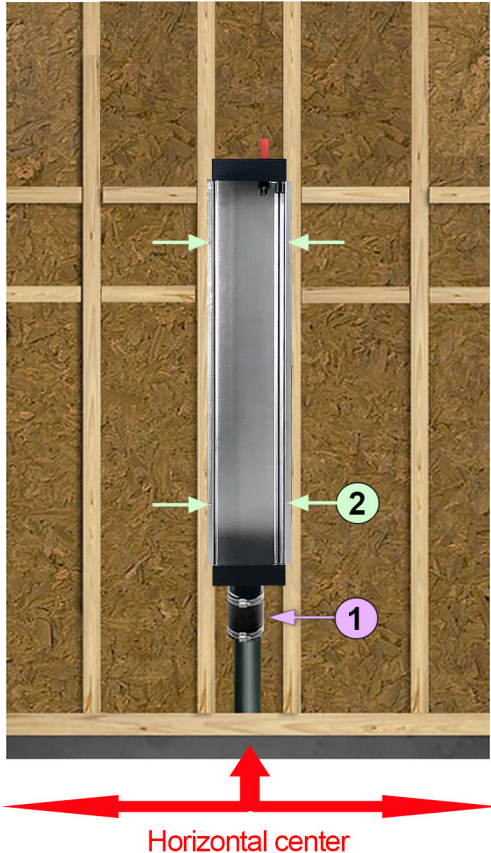
STEP 2

Install the rough-in by mounting it firmly onto your new drain extension, and between the studs as shown.

Position your studs with a distance between them so that they will support the flange of the rough-in as shown. The rough-in has a depth of 3 1/2 inches.

Please follow the color coded reference for this step.

- 1** Attach, and secure the flexible rubber coupling between the bottom section of the rough-in and ABS drain pipe as shown.
Remember: Your ABS drain will now extend vertically 13 inches above your shower floor. Before attaching the rough-in, measure 13 inches above an estimated finished floor which includes concrete, hotmop, tile etc.
- 2** Mount the rough-in onto the supporting studs using stainless steel wood screws.
- 3** Make sure that your drain extension was installed as close to the horizontal center of your shower enclosure as described earlier. This will ensure that the Serene Steam system will be in the horizontal center of your shower for best results during use.



Connecting the hot water line to the rough-in connection

STEP 3

Insert a **Tee connector** on your hot water line so that the extension section of the Tee joint can also connect to the water connection on the rough-in as shown.

Please follow the color coded reference for this step.

1 Your main hot water line

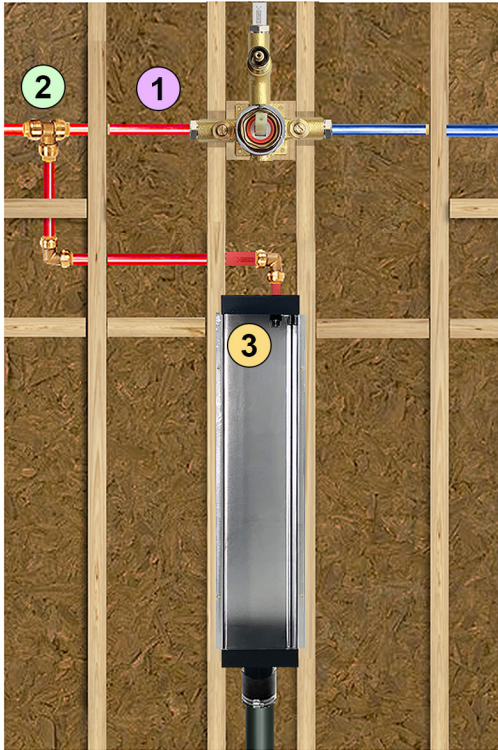
*The hot water inlet temperature is not to be greater than $60 \pm 2^\circ\text{C}$ ($140 \pm 3^\circ\text{F}$),
If necessary, install a certified ASSE 1070 temperature limiting device on the
water inlet line.*

2 Tee connector

3 Rough-in water connection

This step completes the installation process inside your wall for Serene Steam. Unless you have further unrelated steps to complete, the shower wall should now be ready to continue with your own construction.

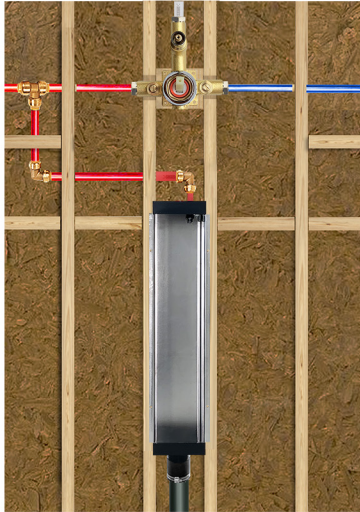
Note: Please make sure, as with any installation, that your existing mixing valve always opens with cold water first for your regular shower use.



Closing, and completing your shower wall

If all looks good, and you don't have any unrelated construction steps, you may now be ready to complete **your shower wall**. The types of materials, and methods used to close your shower wall should be known by your contractor, as he/she should construct with the correct city codes. Images and descriptions below are an accurate example for closing your wall with a Serene Steam rough-in now in place. However, your materials may differ slightly.

BEFORE EXAMPLE



AFTER EXAMPLE



Test all connections for any possible leaks BEFORE closing your wall

Detailed steps are displayed on the following page

Closing, and completing your shower wall

The images below are of a close up example which simply illustrates the correct way to seal the rough-in with your choice of materials to complete your wall. Figure “A” shows our concrete sample slightly transparent so you can see that the concrete is covering the complete frame only (flange) of the rough-in, and Figure “B” shows how it should actually appear as the **frame** of the rough-in is now completely covered, **it is important to cover the flange of the rough-in but do not go over.**

FIGURE “A”



STEP 4



Close, your wall with all materials and continue around the rough-in so that **only the opening** of the rough-in is exposed. You will essentially be closing your wall entirely above the rough-in flanges as shown..

← This is a sample image showing the materials slightly transparent (demo only) so you can clearly see where you should seal the materials up to, **and around the rough-in, over the flange.**

FIGURE “B”



Make sure that you extend your wall materials OVER THE FLANGE of the rough-in as shown above.

Closing, and completing your shower wall

It is important to waterproof any gaps that may appear between the rough-in and your materials used to close your wall. the images below show the difference between the correct method and the incorrect method, **please pay extra attention to this detail**, as the correct method as illustrated in **figure “B” must never be skipped.**

VERY IMPORTANT

FIGURE “A”

X



INCORRECT

Notice how the wall tile **has not** been correctly water-proofed yet. **Make sure it is!**

FIGURE “B”



CORRECT
Most Importantly



Use
RedGard
or similar
to waterproof

Notice how the wall tile **has** been correctly water-proofed leaving **no gaps** between the tile and rough-in. Waterproof around the entire rough-in part. **This is very important!**

Connecting the system to the rough-in water line

FINAL STEPS ATTACHING THE SYSTEM



STEP 5

Before connecting the system, first insert it inside the rough-in and mark the tile where you will drill the holes that correspond with the system to secure it to the wall.



Use a 1/4 inch drill bit suitable for your type of material so that you can achieve a perfect result. Once your holes have drilled, insert the red anchors.

Drill bit not included

Included
Anchors and
finishing screws



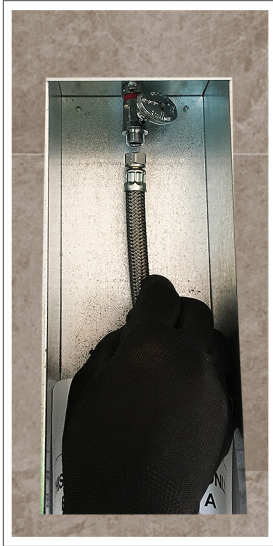
IMPORTANT

Please drill holes with care, and be mindful not to drill too far through your wall which may damage components.

If your red anchors are longer than the thickness of your drilled holes, simply cut them to size.

Connecting the system to the rough-in water line

FINAL STEPS ATTACHING THE SYSTEM



Attach the 16 " flex water line to the shut off valve inside the rough-in. Hand tighten only until water tight.



Now attach the other end of the flex water line to the back of the Serene Steam unit as shown. Hand tighten only until water tight.



Apply silicone **all around** the rough-in to avoid water dripping while system is in use.

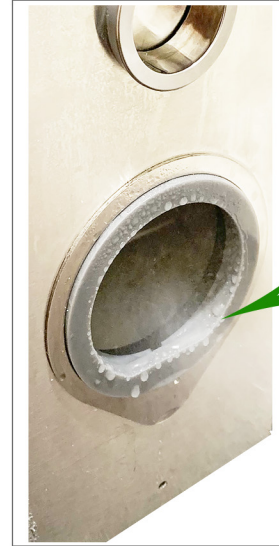
Installation is complete, you may now test the system

Some general notes



Allow 45 minutes
for the silicone to
set before testing.

Once the system is
secured in place and
is operational, it is
normal for a "Run-Off"
amount of water to flow
from the back of the
system into the rough-in
during use. The
"Run-Off is **NOT** visible
during use.



It is **normal** to
notice a small
amount of water
droplets around
the steam/hot
vapor exit flow
during use.



Set your water heater to 135 - 140 degrees Fahrenheit for best results

Serene Steam is in compliance with IAPMO - IGC- 154-2019 Standard.