



# Owner's Manual

## NanaWall HSW75

### Single Track Sliding Frameless System

This Owner's Manual contains instructions on the installation, operation, maintenance and warranty of the NanaWall HSW75 Single Track Sliding Frameless System. This manual is to be used by the installer for installation and is to be kept by the Owner for reference. Replacement parts can be ordered directly through NanaWall Systems.



# Installation Instructions

The installation of the HSW75 System requires a working knowledge and experience in the use of tools, equipment and methods necessary for the installation of aluminum doors, storefronts, and/or partitions. This practice assumes a familiarity with preparing a proper and structurally sound opening, proper structural support for stacking bays and proper anchorage and assumes an understanding of the fundamentals of building construction that affect the installation of large horizontal single track sliding systems. A crew of at least 2 persons is needed. These systems can be heavy. Use safe lifting techniques to avoid injury and product damage.

Highly recommended is using an independent NanaWall Certified Installer, if available, or, at least, an installer who has some experience in installing NanaWall systems.

**IMPORTANT: READ COMPLETE INSTRUCTIONS BEFORE BEGINNING INSTALLATION. INSTALL AS RECOMMENDED; OTHERWISE, THE UNIT MAY NOT FUNCTION PROPERLY AND ANY WARRANTY, WRITTEN OR IMPLIED, WILL BE VOID.**

## CAUTION:

As regulations governing the use of glazed windows, doors, storefronts and/or partitions vary widely, it is the responsibility of the building owner, architect, contractor or installer to insure that products selected conform to all applicable codes and regulations, including federal, state, and local. Nana Wall Systems, Inc. can assume no obligation or responsibility whatsoever for failure of the building owner, architect, contractor, or installer to comply with all applicable laws and ordinances and safety and building codes.

Please pay special attention to the thickness of glass.

The NanaWall glass thickness for the panels is based on the Glass Association of North America (GANA) recommended minimum glass thickness for fully tempered Interior butt glazed fixed glass panels.

The HSW75 system is shipped with all necessary components. However, not included are screws, bolts, shims, etc. to anchor the unit to the opening. The frame is shipped knocked down and needs to be assembled. Panels are pre-assembled with glass, ready to be attached to the installed frame. In most cases, all rollers, pivots, brushes and lockings are pre-attached to the panels.

## DESCRIPTION OF SUPPLIED PARTS

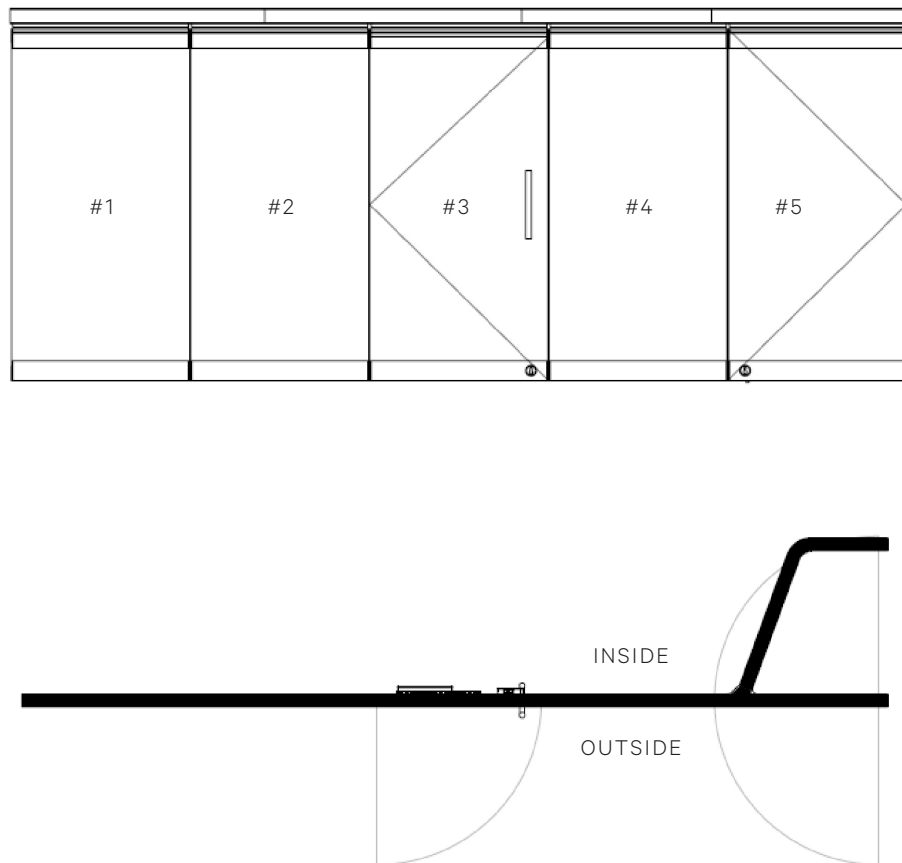
First look for an envelope in the shipment, which contains drawings of the elevation, the layout of the unit and an Installation Manual. This information together with the Custom Product Drawings provided by NanaWall at the time of order will be needed for a successful installation. As there is **no “standard” configuration** for HSW75 units, see **Diagram 1** which shows the elevation and layout of a 5 panel unit to illustrate the installation process. Some items may not be applicable for your unit. Inspect the custom product drawing, indicating size, configuration and labeling of the unit ordered.

Check all parts carefully before assembly. Depending on the unit ordered, some of these parts may already be pre-installed on the panels. **Check that the sizes of the frame components and panels match with what was ordered.**

The elevation drawing shows the sequence and number of panels, which depends on the model ordered.

**The drawing is always viewed from the outside, but the locking shown is what is on the inside.** The panels are pre-assembled with two upper carriers for each sliding panel and with specified locking. **The sequence of labeling of panels starts from the left looking from outside with the left most panel labeled Panel #1.**



**DIAGRAM 1: EXAMPLE OF A 5 PANEL UNIT**

Panel #1: sliding panel

Panel #2: sliding panel

Panel #3: sliding panel

Panel #4: sliding panel

Panel #5: double action end panel (non-sliding) with pivot box or  
double action end panel (non-sliding) with floor closer



Other components include:

- Push/pull handles, other handles or other hardware, as ordered may not be pre-attached to the panels and will be in the hardware box or shipped separately.
- The layout drawing of your unit shows the upper track components consisting of the head track in the opening, the stacking route(s) and the stacking bay(s), how they are labeled and how they have to be connected. The joints for the segments are indicated and necessary connectors for connecting different upper track pieces are provided.
- The location of the removable head track (RHT) portion to insert the rollers on panels is indicated on the layout drawing.
- The overhead door closer and the conversion box of single/double action sliding panels are pre-attached to the top rail, but the locking receiver to be installed on the side of the head track will be in the hardware box.
- To prevent the panels from coming off the top track, stoppers have to be installed at the ends.
- Specified floor sockets, pivot points, pivot boxes and floor closers
- Crank handle for single/double action sliding panels, if any.

## HANDLING OF COMPONENTS

1. Upon receipt, inspect the shipment to ensure it is in good condition.
2. Make sure that all components and hardware, which might be shipped separately does not get lost.

3. Store in a clean and dry location and protect against defacement or damage, especially to the edges of panels.

## PREPARATION OF THE OPENING AND SUPPORT STRUCTURE ABOVE

Make rough opening width at least 1/2" wider than the outside unit frame width and rough opening height about 3/4" taller than the total unit height depending on how level the support structure above is. See Sheet 2 of the Installation Manual. It is important that the opening be the correct size.

Product performance that includes operation, depends on having the gap between the bottom of the panel and the top of the finish floor be maintained at 7 mm (1/4") and also the gap between the top of the panel and the bottom of the head track to be maintained at a nominal gap of 25 mm (1"). The running carriages can be adjusted, if needed. The finish floor needs to be absolutely level across the length of the opening and in the stacking bay.

The track length and layout have been supplied based on the configuration and sizes chosen and approved. Please refer to the layout drawing of your particular HSW75 project for the correct location of the support structure (by others) for the support of the head track at the opening, stacking route and stacking bay. It is important that the system is properly supported at the top and at the proper locations.

**IMPORTANT:** Any application should take into consideration the following:

1. As the HSW system is a top-hung system, it is essential that a proper substrate with the proper size and thickness be used for the support structure



above not only as support for the head track in the opening but support of the head track at all locations including the stacking bay and stacking route.

2. The structural integrity of the support structure is critical for proper operation. **Vertical deflection of the header under full live and dead loads should be the lesser of  $L/720$ th of the span and  $1/4"$ .** It should be designed to accommodate the total weight of the panels in the opening and in the stacking area.
3. Structural support for lateral loads (both windload, if any, and other lateral force) must also be provided.
4. A qualified engineer or architect should be used to determine the proper construction details and support structure to be used in your particular application.
5. The rough opening should be reasonably level, plumb and square at all points. There should be no unevenness or bowing. Make sure that the header is not tilted or twisted. There should be no bumps on the floor. The sides should be in the same vertical plane and not offset of each other. A transit/laser and other similar precise measuring equipment should be used. **YOU NEED TO ADJUST THE FLOOR AT THE OPENING TO MAKE IT ABSOLUTELY LEVEL.**
6. **See Sheet 10 – 15 of the Installation Manual** for drawings of bottom door closer, pivot box, pivot point and floor sockets to determine sizes of holes or slots that need to be made in the finish floor and substrate below. As there are different size floor sockets available, please verify the type of sockets for this order. If planning to cut into a post tensioned concrete for bottom door closers, pivot boxes and sockets, a structural engineer and architect has to be consulted.
7. The finish floor will need to be perfectly level with no

unevenness - both in the opening area and stacking area. For the installation of bottom door closers, pivot boxes and floor sockets in concrete slabs and wood, the substrate should be a minimum of 4" thick, these components should be fully embedded into the concrete or wood and the clear edge distance in concrete or wood should be a minimum of 2".

8. Floor sockets, pivot boxes and bottom door closers will need to be installed at precise locations **after** all panels are installed and final adjustments are made.
9. Installations into heavy gage all metal studs must have wood backing.
10. **For better performance it is strongly recommended that all dead loads such as upper levels, roof, etc. be constructed and reasonable time for it has been allowed to settle before a unit is installed.**

To avoid future problems, do not install your unit until the rough opening and the support structure have been correctly prepared.

## UNIT INSTALLATION

The Installation of the unit is described in the HSW75 Installation Manual:

- Sheet 1. Required Tools
- Sheet 2. Rough Opening and Unit Dimensions
- Sheet 3. Head Track in "kd" (knocked down) Condition
- Sheet 4. Assembly of Head Track
- Sheet 5. Head Track Shimming
- Sheet 6. Installation Sequence of Panels
- Sheet 7. Panel Alignment and Height Adjustment
- Sheet 8. Stopper Installation
- Sheet 9. Drilling Holes for Floor Sockets
- Sheet 10. Pivot Box Installation and Adjustment of Locking Receiver



- Sheet 11. Centered Pivot Point and Bottom Door Closer Installation
- Sheet 12. Pivot Point Top Track for Single/Double Action End Panel
- Sheet 13. Single/Double Action End Panel Installation
- Sheet 14. Offset Pivot Point and Floor Closer Installation
- Sheet 15. Offset Pivot Point Top Track for Single Action End Panel
- Sheet 16. Installation of Profile Cylinder
- Sheet 17. Height Adjustment of Top Brush

## A. FRAME ASSEMBLY AND INSTALLATION

Since there can be an infinite number of variations of stacking options and configurations, it is not possible to have step by step specific instructions that will apply to all units installed. Below are general instructions that focus on the installation of a 5 panel unit as shown in **Diagram 1**. This may not exactly apply to your particular unit. Please refer to the Custom Product Drawings for your specific project.



**The key to having a properly installed and operating HSW75 system is to install a perfectly level upper track at the correct height from the level finish floor, then after the panels are installed, placing sockets in the floor such that they are precisely aligned to the panel locking.**

### Step A1

Look for the labels on the different upper track segments and set them on the floor as per the layout of the head track.

### Step A2

Attach as many of the upper track pieces together that could be supported and installed easily as one piece. Use the connectors and set screws provided.

**See Sheet 4 of the Installation Manual.** Make sure that the correct angles between segments are maintained and that the transitions between the track segments are perfectly aligned and smooth.

### Step A3

The roller access head track section is a removable section in the head track (RHT). This section will need to be later removed when the panels are installed.

### Step A4

The head track is pre-drilled in the factory with anchorage holes at spacing's of about 10" (250 mm) for 5/16" (8 mm) diameter screws or bolts. **See Sheet 3 of the Installation Manual.**

The correct fastener spacing in the support structure within the opening depends on substrate material, design windload pressures (if exterior) of project, panel height and other requirements of the project. **All anchoring details and requirements should be determined and verified by the project structural engineer.** Please pre-drill any additional anchorage holes as needed.

The spacing of anchorage devices in the stacking bay should be every 4" and in the stacking route every about 10" (250 mm). Please pre-drill any additional anchorage holes as needed.

Use appropriate anchorage devices depending on the project lateral load requirements and adjacent substrate material and construction. If the factory pre-drilled holes are sufficient, then 8 mm (5/16") diameter screws can be used. Make sure they are corrosion resistant and that the screw head is small enough to fit inside the slot in the middle of the head track, otherwise it will interfere with the running carriages. Anchorage devices should penetrate (embedment) or hold sufficiently to the opening to withstand necessary lateral loading.



Attention should also be made to the minimum edge distance that must be maintained for different substrates. Generally, for wood frame, minimum embedment is 2 1/2" and minimum edge distance is 3/4", for concrete minimum embedment is 1 1/4" min. and minimum edge distance is 2".

#### Step A5

For all anchorage options, set the assembled part of the upper track into the rough opening at the proper position relative to the support structure and the finish floor.

#### Step A6

Support the upper track temporarily in a safe manner.

#### Step A7

Place hard plastic horseshoe shims tightly at every fixing point between the upper track and the header. Anchor the head track with appropriate screws through the pre-drilled holes or as needed. See Sheet 5 of the Installation Manual.

#### Step A8

Assemble and install other segments of the upper track in a similar manner. Make certain that the angles between different upper track components are exact. If the stacking bay has parallel legs, make sure that the legs are exactly parallel.

**IMPORTANT: ADJUST EACH ANCHORAGE POINT AS NEEDED TO MAKE THE UPPER TRACK ABSOLUTELY LEVEL AND PLUMB. USE A TRANSIT/LASER AND OTHER SIMILAR PRECISE MEASURING EQUIPMENT TO MAKE THESE DETERMINATIONS. MAKE SURE NO SHIMS ARE FORCED TO ENSURE THAT THE UPPER TRACK IS NOT BOWED.**

Upper track segments must be joined such that they are even, tight, and aligned perfectly.

Otherwise, the running carriages may wear out prematurely, which will then not be covered by warranty. Placing shims at the meeting points of track segments may help in keeping the segments even, even though there may not be anchorage holes at this point. See Sheet 5 of the Installation Manual.

Make sure that all surfaces of the upper track are clean and free of any debris, especially cuttings from drilled holes.

Do not attach anything from the side against the head track.



Do not drill any holes for sockets, pivot points, and floor closers, yet!

## B. PANEL INSTALLATION FOR ALL SLIDING PANELS

As there can be many possible configurations, panel installation will vary with each unit. Below are guidelines for a 5 panel unit shown in Diagram 1. Determine the interior/exterior side of the panels and install them such that they are facing the correct direction. Please also refer to E. PANEL INSTALLATION OF A SINGLE/DOUBLE ACTION END PANEL (NON-SLIDING) after following the instructions in C and D.

#### Step B1

Check all the carriers on all the folding panels. **Make sure all the locking nuts are securely tight.** Do not make any adjustments on the carriers, yet.

#### Step B2

Before inserting the panels, add stoppers at the very ends of the top track to prevent panels from coming off the track. See Sheet 8 of the Installation Manual.



Then remove the roller access head track section (RHT). See **Step 0 on Sheet 6 of the Installation Manual**. Hang sliding panels by inserting the carriers on each panel into the opening in the head track in the proper sequence. Make sure that the orientation of the guiding rollers of the carriers on each panel is on the proper side. See the custom product drawings for the correct orientation (straight line with rollers on top of the elevation). See also **Sheet 6 of the Installation Manual**.

**IMPORTANT: IF THE GUIDING ROLLERS ARE NOT ORIENTED CORRECTLY, THE PANELS WILL NOT STACK PROPERLY.**

#### Step B3

Install additional sliding panels, including any single/double action sliding panels (Panel #3), in the same manner.

#### Step B4

After you inserted all sliding panels, reinstall the removable head track (RHT) and make sure that the joints are aligned perfectly.

**IMPORTANT: DO NOT INSTALL ANY SINGLE/DOUBLE ACTION END PANELS (NON-SLIDING), YET.**

Do not drill any additional holes for sockets, pivot points and floor closers, yet!

**CAUTION! DO NOT USE THE CRANK HANDLE TO DISENGAGE THE UPPER ARM OF THE TOP RAIL OF ANY SINGLE/DOUBLE ACTION SLIDING PANELS UNTIL ALL THE PANELS AND LOCKING RECEIVERS OR SOCKETS ARE INSTALLED AND IN PLACE. THE UPPER ARM OF THE TOP RAIL HAS TO BE SECURED TO**

**THE HEAD TRACK VIA THE CONVERSION BOX AND THE QUICK RELEASE LOCK ON THE PIVOT SIDE HAS TO BE SECURED TO THE SOCKET IN THE PIVOT BOX IN THE FLOOR BEFORE THE SINGLE/DOUBLE ACTION SLIDING PANEL CAN FUNCTION PROPERLY. OTHERWISE, IT WILL NOT BE STABLE AND CAN FALL AND HURT SOMEBODY.**

### C. GAPS AND ADJUSTMENT

After inserting all the sliding panels, slide them to the correct closed position and offset them to one another so that any side protruding locking mechanism is not in the way. See **Sheet 7 of the Installation Manual**. Check if all panels are vertically straight and if you left enough space for the single action end panel (non-sliding). See **Sheet 8 of the Installation Manual**. Between panels there should be an even gap of 4 mm (about 5/32") from top to bottom. Any problems may be due to the head track not being absolutely level. A difference of 1/16" or less in the level of the head track between the two corners of a panel can cause a 1/4" shift of the panel from the vertical position enough for a panel not to close properly.

The horizontal spacing between the bottom of a panel and finish floor should be 7 mm (about 1/4") consistently across the width of the panel.

If the gaps are not correct, then adjust the upper track by removing or adding shims above the head track as needed. The upper track has to be perfectly level.

If there are still issues on the gap between panels and the gap at the bottom not being correct, then the running carriages can be adjusted. The carriages on the panels are normally set from the factory to have a gap of 25 mm (1") from the bottom of the head track to the top of the top rail. See **Sheet 7 of the Installation Manual**.



To adjust the height of the panels, remove the end cap on the side of the carrier of the top rail and loosen the set screw holding the carriage bolt and the nut using a 22 mm open jaw wrench. Clamp on the flat part of the bolt that is located near the bottom of the roller with the 11 mm open jaw wrench and adjust the height. Counter-clockwise rotation = less floor clearance; clockwise rotation = more floor clearance. **After final adjustments make sure to really tighten down the nut first and then the set screw to secure the bolt/axle from turning.**

After you adjusted all sliding panels, measure the width for the single action end panel (non-sliding) again and make sure it fits into the opening. If necessary use the stopper in the top track to adjust the dimension. The stopper on the inside of the top track at the end of the plain of the opening should be touching the running carriage and is used as a reference point on that side for the overall width of the unit.



**Now you can start drilling holes for sockets and pivot boxes! Do not install the single/double action end panel (non-sliding), yet!**

#### D. SOCKETS AND PIVOT BOX

Holes and slots in the floor for the sockets and pivot boxes have to be made at exact precise spots. There is no second chance if the hole/slot location is off. **See Sheet 9 and 10 of the Installation Manual.**

With a laser, find the center line of the head track on the floor along the length of the opening, and mark it with a chalk line. Close the unit such that the panels are in the correct closed positions by offsetting them to one another so that any side protruding locking mechanism is not in the way. Make sure the panels are straight and the correct 4 mm gap between panels is maintained. **Start with the panel furthest away from the parking bay** and add blue masking tape underneath the approximate location of

the locking bolts. Slowly and carefully engage the locking points until it touches the tape. The tip of the locking bolts should make a mark on the blue tape that would be the center point of the socket hole.

From the custom product drawings and the locking type on the panels, drill the appropriate size socket holes. If concrete, use a diamond core drill bit with the proper diameter size. Also for the pivot box chisel out the appropriate space needed.

Slide the proper sockets and pivot boxes into the holes. If necessary, use suitable material to fix them in place.



**Now you can start drilling holes for sockets, pivot points and floor closers for the single/double action end panel (non-sliding)!**

#### E. PANEL INSTALLATION FOR SINGLE/DOUBLE ACTION END PANELS (NON-SLIDING) CENTERED AND OFFSET INCLUDING PIVOT POINT AND FLOOR CLOSER INSTALLATION

Holes and slots in the floor for the pivot points and floor closers have to be made at exact precise spots. There is no second chance if the hole/slot location is off. **See Sheet 11-15 of the Installation Manual.**

##### Step E1

Start at the bottom and use the chalk line as a reference line. Measure the overall width of the panel and compare it with the dimension on the custom product drawing. To this dimension add 3/16" (4 mm) at each end to make sure the correct 3/16" (4 mm) gap between the panels and between the panel to the wall is maintained. Then the panel has to fit in the remaining opening.

##### Step E2

For the center pivot end panel (non-sliding) with pivot point, the dimension for the center of the pivot axle to the adjacent edge of the panel (end cap) should be 1 11/16"



(43 mm) plus the additional 3/16" (4 mm) for the gap to the wall. **See Sheet 11 of the Installation Manual.** This means we have a total of 1 7/8" (47 mm) to the edge of wall. Mark this dimension on the chalk line. If concrete, use a diamond core drill bit with 1 1/4" diameter. Install the pivot point and if necessary, use suitable material to fix it in place. Then install the top pivot axle into the top track. Start inserting the upper flush part into the top track, turn it a 1/4 counter clock wise, push it up higher and turn it another 1/4 clock wise. Before you fix the axle with the 2 set screws in place, please use a transit/laser or other similar precise measuring equipment to line up the center of the bottom pivot point with the center of the top axle. **See Sheet 12 of the Installation Manual.**

In preparation for the installation of panel #5, take off the end cap and top cover on the inside. Screw the adjustable bracket onto the threaded bolt of the top axle and make sure that the set screw at the side is loose. Now you can install panel #5 by lifting the pivot axle, that is installed underneath the bottom of the panel, on top of the bottom pivot point. Line the top axle with bracket up with the shoe that is inserted into the top profile and connect both parts with one another. **See Sheet 13 of the Installation Manual.**

Before you finally tighten down all screws, make sure that all dimensions are set correct, the panel can be opened and closed with the right clearance and check if the panel is plumb and level. Then fix all screws in place and secure the top axle by fixing the set screw from the side. Afterwards put the top cover with end cap back on.

### Step E3

For the offset pivot end panel (non-sliding) with pivot point, the dimension for the center of the pivot axle to the adjacent edge of the wall should be 1/16" (2 mm) and it should be offset to the chalk line by 2 1/16" (52 mm). Please check custom product drawing for swing direction (inside/outside). **See Sheet 14 and 15 of the Installation**

**Manual.** Mark this point and if concrete, use a diamond core drill bit with 1 1/4" diameter. Install the bottom pivot point and if necessary, use suitable material to fix it in place. Then install the receiver box for the top axle by hanging it off on the side of the top track and fix it slightly with the 2 set screws. Use a transit/laser or other similar precise measuring equipment to line up the center of the bottom pivot point with the center of the top receiver box.

The 2 offset pivot brackets are installed on panel #5 already. When you start installing this panel, set the bottom pivot axle on top of the pivot point and line up the top bracket with the receiver box at the top. Take the top axle out of the accessory box and connect the bracket and the receiver box by sliding it in from underneath. Fix the top axle with the set screw from the side. Before you finally tighten down all screws, make sure that all dimensions are set correct, the panel can be opened and closed with the right clearance and check if the panel is plumb and level.

### Step E4

For the center pivot end panel (non-sliding) with floor closer, the dimension for the center of the pivot axle of the floor closer to the adjacent wall should be 2 7/16" (62 mm). **See Sheet 11 of the Installation Manual.**

Mark this dimension on the chalk line. Then mark the dimensions of the box on the floor and if concrete, cut and chisel out the concrete to recess the floor closer into the floor. Position the box at the right location in relationship to the edge of the wall.

Make sure that the full underside of the box rests on a flush and level surface and fix it **temporarily** into place. Then install the top pivot axle into the top track. Start inserting the upper flush part into the top track, turn it a 1/4 counter clock wise, push it up higher and turn it another 1/4 clock wise. Before you fix the axle with the 2 set screws in place, please use a transit/laser or other similar precise measuring equipment to line up the center



of the axle of the floor closer with the center of the top axle. **See Sheet 12 of the Installation Manual.**

In preparation for the installation of panel #5, take off the end cap and top cover on the inside. Screw the adjustable bracket onto the threaded bolt of the top axle and make sure that the set screw at the side is loose. Now you can install panel #5 by lifting the receiver shoe that is installed underneath the bottom of the panel, on top of the axle of the floor closer. Line the top axle with bracket up with the shoe that is inserted into the top profile and connect both parts with one another. **See Sheet 13 of the Installation Manual.**

Before you finally tighten down all screws, make sure that all dimensions are set correct, the panel can be opened and closed with the right clearance and check if the panel is plumb and level. Then fix all screws in place and secure the top axle by fixing the set screw from the side. Afterwards put the top cover with end cap back on.

After everything is installed and adjusted including the floor socket for the locking point of the pivot panel, use suitable material to fix the floor closer in place.

#### Step E5

For the offset pivot end panel (non-sliding) with floor closer, the dimension for the center of the pivot axle of the floor closer to the chalk line (CL of track) should be 2 1/16" (52 mm). The center point is then offset to the wall by 1/16" (2 mm). Please check custom product drawing for swing direction (inside/outside). **See Sheet 14 and 15 of the Installation Manual.** Mark this dimension on the floor. Then mark the dimensions of the box on the floor, too and if concrete, cut and chisel out the concrete to recess the floor closer into the floor. Position the box at the right location in relationship to the edge of the wall. Make sure that the full underside of the box rests on a flush and level surface and fix it temporarily into place. Then install the receiver box for the top axle by hanging it off on the side

of the top track and fix it slightly with the 2 set screws. Use a transit/laser or other similar precise measuring equipment to line up the center of the bottom axle of the floor closer with the center of the top receiver box.

The 2 offset pivot brackets are installed on panel #5 already. When you start installing this panel, set the bottom pivot axle on top of the pivot axle of the floor closer and line up the top bracket with the receiver box at the top. Take the top axle out of the accessory box and connect the bracket and the receiver box by sliding it in from underneath. Fix the top axle with the set screw from the side and add the cover with screw. Before you finally tighten down all screws, make sure that all dimensions are set correct, the panel can be opened and closed with the right clearance and check if the panel is plumb and level.

After everything is installed and adjusted including the floor socket for the locking point of the pivot panel, use suitable material to finally fix the floor closer in place. Before you put on the cover for the floor closer, make sure to measure how much to cut off to make it fit with the edge of the wall.

## F. FINAL STEPS

### Step F1

Close and lock all panels into position. For proper operation, follow the instructions in the Operation section of this manual. Check that the system operates and functions properly

### Step F2

For single/double action sliding panels, install the locking receiver on the side of the head track where the Conversion Box with bolt is located. **See Sheet 10 of Installation Manual and CAUTION in section B above.** Make sure the locking receiver is aligned to the locking bolt of the Conversion Box and tighten it with 2 setscrews to the top track. The first step to convert a single/



double action sliding panel into a single/double action door is by engaging the Quick Release Lock into the Pivot Box. Then use the crank handle on the Conversion Box to disengage the top rail from the upper arm and engage the Conversion Box with the locking receiver at the top track.

**Step F3**

Attach handles and other hardware that have not been pre-attached. Attach the profile cylinder (if any) to the locking gear by inserting it into the lock hole and attaching the set screw through the screw hole on the gear located at the edge of the panel. Cut the set screw, if needed.

**Step F4**

Open and close all single/double end panels (non-sliding). Move sliding panels into the stacking bay. The panels should move easily in the opening and should stack smoothly in the stacking bay. Check to see if all upper track components are properly installed. Check if all angles are correct. Each leg of the stacking bay track should be equidistant at all points.

**Step F5**

Correct any problems before you finish the trimming. Do not attach any trimming directly to the top track. Be sure that the removable head track piece can be accessed and removed if needed. If the head track is recessed into the ceiling, make sure any receivers installed on the side of the head track are accessible. The head track should not be subject to any loads from suspended ceilings, etc.

**PROTECTION OF THE UNIT DURING THE CONSTRUCTION PHASE**

It is important that during the construction phase the unit be kept closed, covered and protected from damage. During this phase, a unit is often subject to the most extreme conditions from all types of construction

operations that can permanently damage and destroy it. A unit can be damaged by cement splatter, tar, paint, weld splatter, falling objects, construction dust, sand blasting, etc. All temptations to use the large opening of an installed system for easy ingress and egress by tradesmen should be resisted.



# Operation And Maintenance Of Nanawall Products

## OPERATION OF A NANAWALL HSW75 – SINGLE TRACK SLIDING SYSTEM

For opening and closing the single track folding system, please observe the special notes on the following pages in as far as they relate to your unit.



**When operating the system similar to any other door, please do not place your fingers between the panels/pivot points.**

Only properly trained personnel should operate the unit.  
No children should operate the unit.

Do not force the system if not operating properly. If you encounter any difficulties in operating the unit, please have it inspected by a NanaWall certified installer as soon as possible.

The correct sequence of opening and closing of panels is dependent on the configuration ordered. Panels must be opened and closed in the right order and **only move one panel at a time** in a gentle manner.

### Opening and Closing a Unit.

1. For opening, if there are any single/double action panels, convert them to sliding panels as per instructions below.
2. If there are non-sliding end panels, open these panels first.
3. Disengage the locking points on each panel and move only one panel at a time. Operation of each type of lock as follows:
  - a. Profile Cylinder – turn with key or thumb turn.
  - b. Quick Release Lock – pull knob and lift up/down.
  - c. Concealed Locking – lift up/down edge bolt with hand or foot.
  - d. Automatic Locking – when adjacent panels are pulled together and properly aligned, the bolt automatically engages.
4. Note that there is a carrier at each upper corner of a sliding panel. Look at the head track within the opening and note the switches that lead the head track from the main opening to the stacking bay. Move the panel from the side in the direction of the stacking bay and the roller with top guide will follow the line in the switch to the right stacking location. If necessary, grasp the panel by the edges with both hands as high on the panel as possible to locate him in the right location.
5. Similarly, slide all the remaining panels through the appropriate switch into the stacking bay.
6. In most cases, panels can be pushed in place with one hand pushing on the edge of a panel. Move evenly **one panel at a time** and keep panels as vertical as possible and push into the stacking bay. Do not force. Avoid any pendulum movements, otherwise rollers may get damaged.
7. If there is more than one stacking bay, please be sure the panels are stacked in the correct stacking bay.
8. For closing, proceed with the sliding of the panels in reverse order. To pull the panels from the stacking bay, you will need to grasp panels by the edges with one hand as high as possible. Move evenly and keep panels as vertical as possible. Avoid any pendulum movements.
9. Make sure each panel is placed in its proper position in the opening and engage the locking point before moving the next panel. Do not force any locking point.



- Convert the single/double action sliding panels from sliding panels to swing panels as per instructions below.

### **CONVERSION OF A SINGLE/DOUBLE ACTION SLIDING PANEL FROM A SLIDING PANEL TO A SWING PANEL**

- When the unit is closed, it would be best to make sure all the locking points on every sliding panel are properly engaged. Pay special attention to the Quick Release Lock on the single/double action sliding panels to the Pivot Boxes on these panels. They have to be fixed in place first before you proceed.

**IMPORTANT: THE QUICK RELEASE LOCK ON THE PIVOT SIDE OF A SINGLE/DOUBLE ACTION SLIDING PANEL HAS TO BE SECURED TO THE SOCKET IN THE PIVOT BOX, FIRST, BEFORE YOU PROCEED AND THE SWING PANEL CAN FUNCTION PROPERLY. OTHERWISE, IT WILL NOT BE STABLE AND CAN FALL AND HURT SOMEBODY.**

- Using the crank handle supplied, turn the slot in the Conversion Box located on the upper arm of the top rail so the upper arm engages to the receiver on the side of the head track and disengages from the top rail. Turn about 8 revolutions in a counter clockwise direction until the bolt sticking out has disappeared.
- The single/double action sliding panel can now be used as a regular swing door with appropriate hardware.

### **CONVERSION OF A SINGLE/DOUBLE ACTION SLIDING PANEL FROM A SWING PANEL TO A SLIDING PANEL**

- Close the swing panel.
- Using the crank handle turn the slot in the Conversion Box located on the upper arm of the top rail so the upper arm disengages from the head track and engages to the top rail. Turn about 8 - 10 revolutions in a clockwise direction until there is a slight resistance.
- Release the Quick Release Lock on the pivot side to disengage the locking from the Pivot Box and if necessary unlock the profile cylinder.
- The single/double action sliding panel can now slide away just like all the other panels

### **RECOMMENDED MAINTENANCE OF NANAWALL PRODUCTS**

Some General Considerations on all Projects:

- It is important that the product is properly installed. A poorly installed unit will not function properly. This will cause more abnormal force or stress on the components and will lead to premature failure. When operating the unit, the panels should generally be able to be moved easily by one person. When moving across joint locations of head track transitions, there should be no bumps, otherwise the carriers may prematurely wear out. All locking points should engage smoothly. There should be no rubbing on the floor and no binding. When the unit is closed, the horizontal reveal between panels and the head track and between panels and the floor should be consistent. Please have all problems corrected



as soon as possible by a qualified technician or a NanaWall Certified Installer.

2. From time to time, due to building movement or settlement, a unit may need to be adjusted by a qualified technician or a NanaWall certified installer to compensate for any building change.
3. It is important that a unit is operated properly. Locking points should be gently opened and closed and not forced. Panels should be opened and closed in the proper manner and sequence. See the Operation section for proper operation.
4. Periodically check for worn or damaged components and replace as soon as possible. A unit with nonworking components will subject the other components to increased stress and lead to premature failure. A unit with worn or damaged components will compromise the performance level expected.
5. **Remove debris and other foreign bodies which have accumulated in the head track and sockets immediately to prevent damaging the carriers and maintain proper locking.** Clean and lubricate all movable parts and components as needed. Check brushes for proper seating and condition. Remove dust and any deposits from these brushes.
6. The finished aluminum or stainless steel surface needs periodic cleaning and maintenance. Its appearance may be marred by harsh chemicals, abuse or neglect. Frequency of cleaning depends on exposure and needs. For aluminum surfaces, generally warm soapy water should be sufficient. Stubborn stains and deposits may be removed with mineral spirits. Heavier accumulations can be removed with a mild solution of household detergent. For all surfaces, aggressive alkaline or acid cleaners

should not be used. Excessive abrasive rubbing should be avoided. Sealants and weather stripping may be affected by strong organic solvents.

7. All hardware, hinges and handles should be periodically cleaned with a soft cloth and mild cleanser. Excessive abrasive rubbing should be avoided.
8. It is highly recommended that a maintenance/ service contract be entered with a NanaWall certified installer, who can clean, lubricate and inspect on a periodic basis.

#### **MAINTENANCE CHECK LIST**

Following recommended check list of Maintenance Notes to be carried out on a regular basis by a maintenance person:

- a. Clean upper track
- b. Adjust brush sealing
- c. Check height adjustment and setting of each panel
- d. Check if all panel end caps are in place
- e. Check if all carriages can be moved easily
- f. Check if counter nuts and safety screws on carriages are adequately fastened
- g. Check if pin carriers in pivot panels are in the right position
- h. Ensure that the lower locks can be moved easily
- i. Check if floor sockets and pivot boxes are adequately fastened to the floor



- j. Remove any dirt from the floor sockets, pivot boxes and bottom door closers
- k. Ensure that any lock and profile cylinder can be moved easily
- l. For single/double action sliding panels, check position of the reversing gear

opening. The panels would need to be removed from the opening to install the glass. Panels can be laid flat on sawhorses.

**Please get in touch with NanaWall before you replace a glass pane in order to get the right material and instructions to glaze the panel!**

## GLASS INSTALLATION AND GLAZING

This section applies only if you need to install glass for any reason. Proper glass installation is critical, as, with the NanaWall single track sliding system, glass is a structural part of the panel.

Glass, with appropriate dimensions, thickness and specifications will be needed. Depending on the model, widths of all glass panels may not be equal. Contact NanaWall for the glass dimensions. Please note that glass is required to be safety glass – either fully tempered or laminated as specified for a particular order. Check with all applicable codes and regulations.

Glass shall meet the current requirements of ASTM C 1306 “Standard Specifications for Flat Glass” for quality, thickness and dimensional tolerances. Tempered float glass shall meet the current requirements of ASTM C 1048 “Standard Specifications for Heat-Treated Flat Glass - Kind HS, Kind FT Coated and Uncoated Glass.” All tempered glass shall have a permanent logo, which signifies Safety Commission 16 CFR-1201 and the safety glass test requirements of ANSI Z 97.1 (current editions) or other equivalent safety standards.

Follow all proper applicable glass installation and glazing techniques as recommended in the Flat Glass Marketing Association (FGMA) “Glazing Manual” and “Sealant Manual”. Always use suction cups to shift glass within an



**SOME SPECIFIC SUGGESTED MAINTENANCE  
FOR COASTAL SALT WATER AND OTHER  
EXTREME ENVIRONMENTS:**

Please note that the environment within one mile of a sea coast can be extremely corrosive. Products installed in this environment will typically deteriorate sooner than products installed in a less severe environment.

1. Open and close unit completely at least once a week and inspect all surfaces. Salt and other corrosive or abrasive materials such as sand must not be allowed to build up on any surfaces, including all hardware and sill. The sill and head jamb tracks should be free from all dirt and debris. There should be no standing water in the track in the sill. All hardware should be intact and operating properly.
2. All surfaces must be cleaned with a mild detergent soap and fresh water at least every month and more frequently if necessary. After washing, the surface should be rinsed thoroughly with clean water and allowed to dry. For cleaning, do not use abrasive household cleaners or materials like steel wool or hard brushes that can wear and harm finishes. Any glass cleaner used should not be allowed to run down on any other surface.
3. Any breaches in the paint coating, such as scratches, chips or areas of abrasion, must be repaired immediately.
4. Every 3 months, thoroughly clean and dry all upper and lower rollers and all hinges. Liberally apply lubricant such as Teflon spray (no grease) on the wheels and bearings of the rollers. Oil all hinges including the hinge pin with light weight lubricating oil or Teflon spray.
5. As with any painted surface exposed to corrosive environments, every 6 months apply a wax to the outside of the painted panel and painted track. If the system includes corner connections make sure the wax penetrates the connection joints.



# NanaWall Limited Warranty

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NanaWall is pleased to provide the following warranty to the owner of NanaWall products, including the initial purchaser and all subsequent owners ("Owner"), subject to all terms and conditions stated herein. This Warranty supersedes all previous product warranties and is the exclusive statement of all commitments and rights of NanaWall with respect to its products sold on or after May 1, 2022, to be installed in the United States (excluding territories) or Canada.

NanaWall shall have no obligation to respond under this Warranty until receipt of proper notice of a claim and an opportunity to respond. Upon notice and confirmation by NanaWall of a condition covered under this Warranty, NanaWall will respond in good faith and in a timely manner as follows:

## TEN YEAR COVERAGE.

**For ten (10) years from the date of delivery by NanaWall ("Delivery"), NanaWall will respond as follows:**

**Insulated Glass.** For an insulated glass unit with a permanent material obstruction of vision due to a premature failure of the glass seal, NanaWall will ship a replacement glass unit or panel. Exception: insulated glass units for cero® are covered for five (5) years from Delivery.

**Powder Coat or Baked-on Fluoropolymer Surface Finish of Aluminum Profiles.** For powder coat or baked-on fluoropolymer surface finish not functioning as an Effective Surface Material ("ESM"\*), NanaWall will, at its option, (1) assume reasonable costs to restore the finish using standard commercial refinishing techniques or (2) ship replacement parts. Uneven fading is not a covered condition due to environmental variables.

*\*An ESM is a finish without (1) substantial cracking, chipping, or peeling due to the deterioration of the finish (exclusive of mechanical damage); (2) chalking in excess of a numerical rating of 8 as per ASTM D 659; or (3) fading or color changes in excess of 5 NBS units as per ASTM D 2244.*

**Rollers.** For a roller with material or workmanship issues that significantly impair proper operation and function, NanaWall will ship a replacement roller.

**Wood and Other Remaining Components** (for product installed by an independent NanaWall Certified Installer or Approved Installer\*\*). For all remaining components of NanaWall products not otherwise addressed herein with a material or workmanship issue that substantially impairs operation and function, NanaWall will, at its option, (1) ship a replacement part or product or (2) ship any replacement part or replacement product in the same stage of fitting and/or finishing as originally supplied by NanaWall. This includes wood frame components, hinges, handles, locking mechanisms, tracks, beads, and weather-stripping.

## FIVE YEAR COVERAGE.

**For five (5) years from Delivery, NanaWall will respond as follows:**

**Laminated Glass.** For a laminated glass unit with permanent material obstruction of vision due to premature delamination, NanaWall will ship a replacement glass unit or panel.

**Wood and Other Remaining Components** (for product NOT installed by an independent NanaWall Certified Installer or Approved Installer\*\*). For all remaining components of NanaWall products not otherwise addressed herein with a material or workmanship issue that substantially impairs operation and function, NanaWall will ship a replacement part or product without charge in the same stage of fitting and/or finishing as originally supplied by NanaWall. This includes wood frame components, hinges, handles, locking mechanisms, tracks, and weather-stripping.



### THREE YEAR COVERAGE.

For three (3) years from Delivery, NanaWall will respond as follows:

**Anodized Surface Finish of Aluminum Profiles.** For anodized surface finish of aluminum profile not functioning as an ESM,\* NanaWall will, at its option, (1) assume reasonable costs to restore the finish on a non-compliant (non-ESM) material using standard commercial refinishing techniques or (2) ship a replacement part.

### ONE YEAR COVERAGE.

For one (1) year from Delivery, NanaWall will respond as follows:

**Screens.** For a screen part (excluding the screen mesh) with a material or workmanship issue that substantially impairs the function of the screen, NanaWall will, at its option, (1) ship a replacement screen or (2) upon return by owner, repair the screen without charge.

### ADDITIONAL SERVICE INFORMATION

This Warranty does not cover labor costs to remove existing parts or products, install a replacement part or product, costs to finish wood products, or the cost to repair or replace surrounding substrates, trim, or other work. Nor does it cover costs incurred due to delays or other construction costs, costs for late or damaged delivery, loss of revenue, loss of time, liquidated damages, inconvenience, or loss of use of the product or any parts or components. NanaWall reserves the right to determine whether or not a covered condition exists. If the claim is not covered under this Warranty, NanaWall may charge and collect a fee for on-site product inspections.

Any replacement part or product will be shipped to the location of original product delivery by NanaWall. Replacement products will be the closest equivalent current product and may not be an exact match to the original. If providing a replacement part or product is not commercially practicable, NanaWall may elect to refund the purchase price of the affected product in full satisfaction of its obligations.

**Wood.** Wood components must be properly finished on all sides promptly after receipt of unit before installation of unit, and prior to exposure to weather. Repair or replacement of a warped wood panel or frame can be delayed by up to 12 months from date of claim to allow the wood component to adjust to local environmental conditions.

**Glass.** Unloading the replacement glass/panel from the delivery truck is the responsibility of the owner. Due to the weight of the product, appropriate manpower and/or equipment will be needed to unload and move the glass/panel to the location for replacement. Depending on the size of the replacement part and interior building dimensions, it may not be possible to transport the glass/panel through the interior of the building. NanaWall is not responsible for any costs associated with moving the replacement glass/panel at the delivery location.

*\*\*Whether an installer is an independent NanaWall Certified Installer or Approved Installer is determined by the installer's status as of the date of delivery. NanaWall maintains information regarding the installers designated as Certified Installers or Approved Installers.*

### NOTICE PROCESS

Written notice of any claim under this Warranty with supporting documents such as photos or videos must be given to Nana Wall Systems, Inc. via email to [service@nanawall.com](mailto:service@nanawall.com) or via mail to 100 Meadowcreek Drive, Corte Madera, CA 94925, promptly when discovered. A condition will not be covered under this Warranty if there is a failure to notify NanaWall in writing (1) within 7 days of receipt of the product for any defect which an ordinary inspection would reveal, (2) within a reasonable time during the warranty period after an impairment in operation and use is manifest or a hidden defect is discovered, or (3) for claims first made after expiration of the coverage period outlined in this Warranty.



## DISCLAIMERS & LIMITATIONS

Any responsibility of NanaWall is contingent upon owner fulfilling its notice obligations as stated in this Warranty. The owner shall have no standing to assert a claim absent timely notice to NanaWall and an opportunity to cure. The remedies prescribed in this Warranty are the exclusive and sole remedies available to the owner who hereby waives any claim not encompassed herein. This exclusivity and waiver survive expiration of warranty coverages herein. In no event shall the liability of NanaWall or any seller of NanaWall product exceed the price paid for the product.

This Warranty is the sole and exclusive warranty for NanaWall products. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE DISCLAIMED. NANAWALL SHALL NOT BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES. Some state and federal laws may not allow disclaimers of implied warranties or exclusions of incidental or consequential damages, so these limitations or exclusions may not apply to you. Where federal law prohibits disclaimer of implied warranties, the duration of any implied warranty is limited to the duration of the relevant coverage period, if less than the statutory limitation period. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This Warranty may only be modified by a writing signed by an officer of NanaWall. Any action taken by NanaWall does not create a new warranty or extend the duration of the original product warranty. A failure by NanaWall to enforce a warranty provision shall not constitute a waiver barring subsequent enforcement.

## EXCLUDED CONDITIONS.

**This Warranty does not cover the following conditions, or any damage or issues caused in whole or part by the following:**

- Product selection, application, storage, handling, modification, or waterproofing; Movement of surrounding substrates, including deflection of the header of more than ¼", or any other stresses on product; Installation, flashing, or integration into the structure; Failure to prevent the effects of sheeting rain or water; Failure to install proper weep holes in sill where needed, and failure to properly drain water exiting weep holes in the sill; Failure to meet code or specification requirements.
- Finishing by anyone other than NanaWall, including but not limited to, not properly finishing all sides of wood products promptly after receipt of unit, before installation of unit and before exposure to weather, finishing exterior wood in dark colors, or not refinishing periodically; Discoloration of finish; Failure to immediately repair any breaches such as scratches, chips, or abrasions in any finish or aluminum profile.
- Condensation, frost, or mold caused by high interior relative humidity; Installation near swimming pools; Harsh chemicals such as road salt, solvents, acid, brick or mortar wash, or cleaning chemicals; Corrosion or tarnish on product installed within two (2) miles of any coastal area or body of salt water, or other harsh or corrosive environments or chemicals.
- Normal weathering, wear and tear; Failure to follow the NanaWall operation and maintenance instructions; Failure to operate the product for more than one month; Failure to clean and maintain aluminum surfaces in accordance with AAMA 609 and 610 or not maintaining adequate cleaning records.
- Imperfections in glass that do not affect the product's structural integrity or obscure vision and cannot be detected from within 10 feet as per ASTM C 1036; Accidental or spontaneous glass breakage; Glass breakage due to thermal or other stresses, or glass with film or other coatings applied to the surface; Industry accepted bow, warp or distortion in glass, and minor variations in glass color; Glass not installed as per NanaWall's instructions.



- Variations in wood grain or color; Warp within the allowable warp tolerance for wood panels per ANSI/WDMA I.S. 6A-01; Warpage on wood panels caused by leaving panels in the open position exposed to the elements or not engaging the locking points properly when in the closed position; Resin or sap bleeding from wood panels.
- Panel shrinkage or expansion caused by change in weather; Expansion or bowing of aluminum units caused by exposure to sunlight or caused by temperature difference between interior and exterior panel surfaces.
- Acts of God, falling objects, fire, accidents, external forces, or other conditions beyond NanaWall's control.
- Gas fill or retention levels in insulated glass units.
- Field testing of Product; Performance of the Product in conformance to any published NanaWall testing results (e.g. air infiltration, water infiltration, structural loading). Published test results measure the laboratory performance of a single sample of the product of a certain size and configuration. Performance during testing may vary depending upon handling, installation, use, maintenance, and testing.
- Products or components not supplied by NanaWall; Products that have not been paid for in full; Products ordered in larger sizes or special configurations beyond NanaWall's published specifications. Product with glass that is heavier than NanaWall specifications; Product that has been modified or altered in any manner.



# NanaWall Warranty Registration

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Must be filled out and returned to Nana Wall Systems, Inc., 100 Meadowcreek Drive, Corte Madera, CA 94925 within 30 days from date of purchase of the NanaWall in order for the limited warranty to become effective.

**NANAWALL ORDER #** \_\_\_\_\_

**PROJECT NAME** \_\_\_\_\_

Date of Purchase \_\_\_\_\_

Purchaser Name \_\_\_\_\_

## PROPERTY OWNER

Name \_\_\_\_\_

Address \_\_\_\_\_

Telephone \_\_\_\_\_

E-mail \_\_\_\_\_

Project Address (if different from above) \_\_\_\_\_

## INSTALLATION

Installer Name \_\_\_\_\_

Address \_\_\_\_\_

Telephone \_\_\_\_\_

E-mail \_\_\_\_\_

Type of project    ☐ new residential    ☐ restaurant    ☐ shopping mall  
                         ☐ residential remodel    ☐ office building    ☐ other \_\_\_\_\_

Architect Name \_\_\_\_\_

Address \_\_\_\_\_

1. Is the installation complete?    ☐ yes    If yes, date completed \_\_\_\_\_

☐ no    If no, date scheduled \_\_\_\_\_

2. Have you been shown how to    ☐ yes    Is operation satisfying?    ☐ yes    ☐ no

operate your new NanaWall?    ☐ no    If no, why not? \_\_\_\_\_

Print Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

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**NanaWall**<sup>®</sup>  
Boundaries **Unbound**<sup>®</sup>

Nana Wall Systems, Inc.  
100 Meadowcreek Drive #250  
Corte Madera, CA 94925

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415 383 3148  
Fax 415 383 0312

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