



## ATLANTIS RAIL Contact Information:

Atlantis Rail Systems

70 Armstrong Road  
Plymouth, MA 02360

3900 Civic Center Drive  
North Las Vegas, NV 89030

(800) 541-6829 or (508) 732-9191

(508) 732-9798

www.atlantisrail.com

### NOVA II Gate Installation Instructions

The NOVA II Gate features a pre-welded and powder-coated aluminum frame with a handrail that matches your NOVA II System, and horizontal cable infill. The cable infill utilizes HandiSwage™ fittings with 1/8" cable. The NOVA II Gate is available in 36" and 42" sizes and are offered in black, white and bronze color options.

The following guide will take you step-by-step through the process of installing your NOVA II Gate. Along the way, we'll offer you tips and tricks to help you get your gate installed today and ready for tomorrow.

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Note



Requirement



Hint

## Tools

### Required & Recommended



Power Drill



5/32" Drill Bit



#2 Phillips Driver Bit



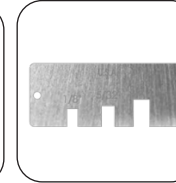
Hand Swager Tool



Cable Cutter



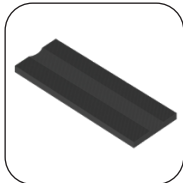
Hacksaw



After Swage Gauge



Vise Grips



Cable Grip



7/16" Open Wrench



Level



Carpenter's Square



Touch-up Paint



Loctite® Threadlocker  
Blue 242



Safety Glasses



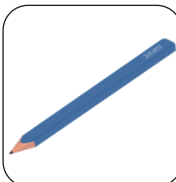
Gloves



Wood Blocks



Wood Shims



Pencil



Grommet Install Tool

## Tips for a Successful Installation

- Read the instructions completely before beginning the installation.
- Check carton(s) to determine part count is complete.
- Installation is best accomplished with two (2) people.
- Always wear personal protection equipment; safety glasses, work gloves, etc.
- Use care not to over-torque the screws. Pre-drilling is required.
- Provided hardware to install the NOVA II Gate is for use with NOVA II aluminum posts. If installing to other surfaces, you must acquire the appropriate hardware as needed for proper installation.



**STORE YOUR ORDER INDOORS TO KEEP DRY!**  
Some items in your order have been shrink wrapped with a protective poly film. Avoid exposing these items to harsh weather and moisture to avoid damaging powder coated surfaces. When you're ready to install product, remove the protective shrink wrap before or immediately after installation.



ATLANTIS RAIL SYSTEMS PROVIDES A VARIETY OF MOUNTING OPTIONS FOR POSTS AND RAILS USED IN OUR SYSTEMS. PRODUCTS OF THIS NATURE REQUIRE THAT MOUNTING SURFACES ARE CONSTRUCTED TO BE CONSIDERED STRUCTURAL PER BUILDING CODE DEFINITION FOR THE SURFACE MATERIAL USED. STRUCTURAL INTEGRITY AND BUILDING CODE COMPLIANCE OF MOUNTING SURFACES ARE THE RESPONSIBILITY OF THE END USER AND / OR INSTALLER. THE USE OF ANY OF OUR MOUNTING METHODS ARE AT THE OPTION AND DECISION OF THE END USER AND / OR INSTALLER AND SHOULD BE SELECTED TO MATCH THE STRUCTURAL MATERIAL USED TO CREATE THE MOUNTING SURFACE.



ALWAYS REFER TO YOUR LOCAL BUILDING CODE OFFICIALS PRIOR TO INSTALLING ANY ATLANTIS RAIL SYSTEM TO ENSURE ALL CODE AND SAFETY REQUIREMENTS ARE MET. ATLANTIS RAIL SYSTEMS IS NOT RESPONSIBLE FOR IMPROPER OR NON-RECOMMENDED INSTALLATIONS.

## HandiSwage Components



C0731-H0703-2  
C0731-H0703-10

HandiSwage Standard Stud 1/8" (1/4"-28 RH) - 2 Pack  
HandiSwage Standard Stud 1/8" (1/4"-28 RH) - 10 Pack

### Additional Components



NOVA II  
Cover Nut Sets

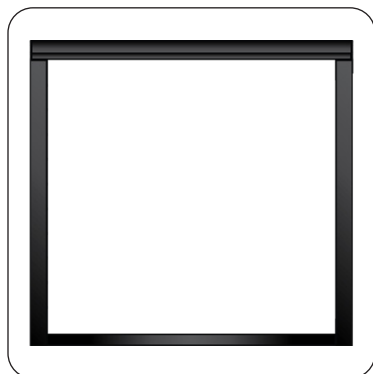


Cable Grommets



THE NOVA II GATE DOES NOT COME PRE-INSTALLED WITH THE HANDISWAGE STUDS AND CABLE INFILL.

## Components for NOVA II Gate



NOVA II Gate 36"  
NOVA II Gate 42"



NOVA II Gate Locking Latch



NOVA II Gate Hinges



#10 x 1 Self Drilling Screws

## Dry Fitting Gate and Pre-Drilling for Hardware

### Gate Placement

Resting the NOVA II Gate on top of two (2) wood blocks, position the gate between the two (2) end posts which have been designated as the desired gate placement.



**USE WOOD SHIMS IN ADDITION TO THE WOOD BLOCKS TO RAISE THE GATE TO THE DESIRED HEIGHT.**



**THE TOP RAIL OF THE NOVA II GATE SHOULD BE LEVEL WITH THE TOP RAIL OF RAILING SYSTEM.**

Use a level and carpenter square to assist in the proper positioning of the gate (See Figure A).

### Pre-Drilling for Gate Hardware

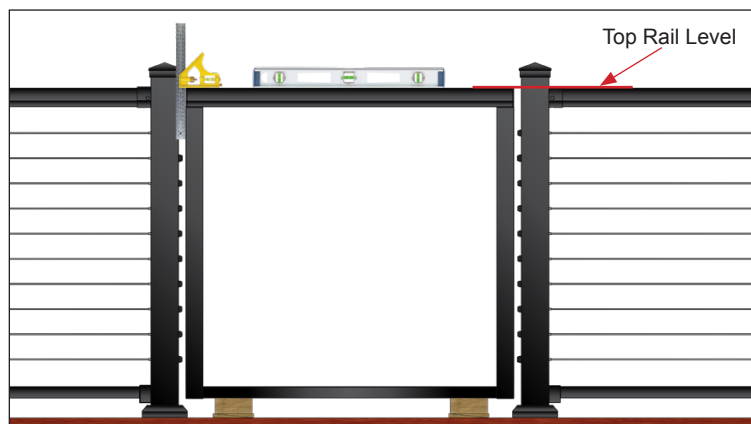
Hold in place a NOVA II Gate Hinge (with the hinge legs straddling the cable holes) as a template against the outer face of the fence post and the gate frame.



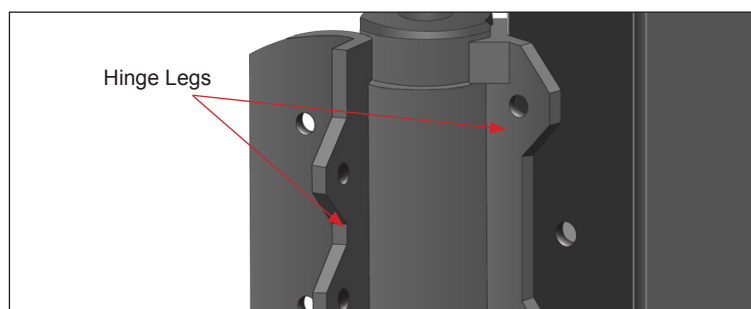
**THE HINGE LEGS HAVE BEEN MACHINED TO FIT AROUND THE CABLE HOLES (SEE FIGURE B).**

With a pencil mark the holes for pre-drilling. With a 5/32" drill bit pre-drill holes. Repeat actions for the second hinge (See Figure C - Right Inset).

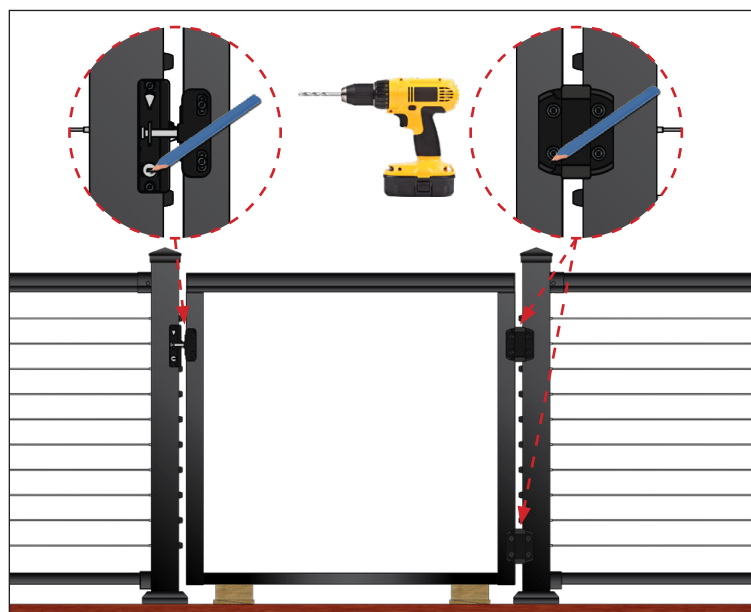
Hold in place the NOVA II Gate Locking Latch as a template against the outer face of the fence post and the gate frame. The latch mechanism consists of two pieces; the latch body and the catch. The catch will straddle the cable holes and outer face of the gate frame. With a pencil mark the holes for pre-drilling. With a 5/32" drill bit pre-drill holes for both the latch body and catch (See Figure C - Left Inset).



**Figure A.** Position the NOVA II Gate utilizing wood blocks, shims, level and carpenter square.



**Figure B.** The hinge legs have been machined out to fit around the cable holes.



**Figure C.** Utilizing the NOVA II Gate locking latch and hinge hardware mark holes with a pencil and pre-drill holes with a 5/32" drill bit.

## Cable Installation on Gate

### Running the Cable

Beginning at the top, attach the cable to the HandiSwage Stud (part # C0731-H0703-2, C0731-H0703-10) in accordance with the hand swaging tool instructions.



**FOLLOW ALL WARNINGS AND WEAR PROPER SAFETY EQUIPMENT WHEN WORKING WITH CABLE TO PREVENT INJURY.**

Using the NOVA II Cover Nut Set, place the plastic washer and nut on the end of the HandiSwage Stud threaded shank. Hand tighten until 1/2" of thread extends beyond the nut (See Figure D). Set aside the cover for installation later. On the other end of the cable run, place the plastic washer, nut and lock nut on the end of another HandiSwage Stud. Leave the lock nut as much travel as possible. Put the stud against the opposite post and pull the cable tight by hand to the back of the stud. Mark and cut the cable at the notch before the threads (See Figure E). Swage the second fitting in accordance with the swaging tool instructions. Feed the cable through the gate frame.

Repeat the above steps until all the cables are run **BEFORE** applying tension.

### Tensioning the Cable

Before tensioning with tools, hold the stud fittings firm and tighten the nuts by hand until all cables are snug.



**ATLANTIS RAIL REQUIRES USING LOCTITE THREADLOCKER BLUE 242 ON THE THREADS OF THE HANDISWAGE STUD. APPLY A DROP TO THE THREADS AS CLOSE TO WHERE THE NUT WILL BE TIGHTENING AGAINST THE WASHER AS POSSIBLE. USE A DAMP CLOTH TO CLEAN UP EXCESS RESIDUE IMMEDIATELY.**

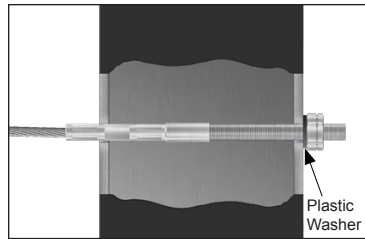
When tensioning the cable, you must hold the stud or cable in a neutral position while turning the nut to apply tension. There are two (2) methods to accomplish this; both requiring a pair of vice grip pliers. Option one (1) is to hold the back of the swage stud with the vice grips which requires at least 1/4" space between the tensioning nut and the end of the stud (See Figure F). Option two (2) is to use a Cable Grip Pad (part # E0114-0000) to hold the cable just outside the post while you tension the stud using the tensioning nut (See Figure G). Set the vice grips with a 1/8" space total between the cable and the vice grip jaws. Place the pad on the cable and then apply the vice action to the pliers.

### Tension the Center Cable

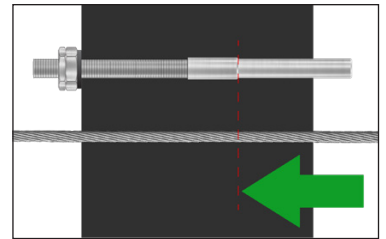
Beginning with the center run of cable. Hold the hand swage stud firm using one (1) of the methods described above and tighten the tensioning nut with a 7/16" wrench. Tighten the nut three (3) or four (4) full rotations until the cable is snug. **Do not over-tension!** Don't worry if this cable moves a little, we will come back around to it later.

### Tension the Remaining Cables

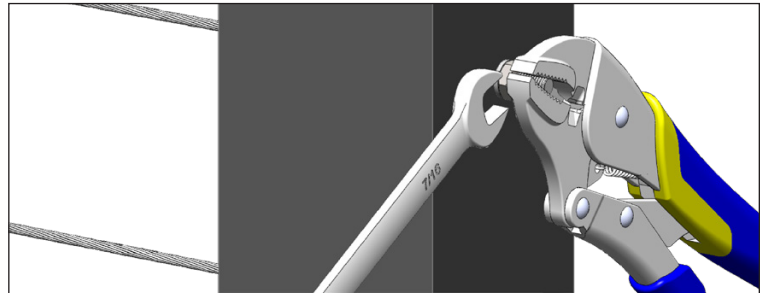
Alternate tensioning the cables from the center, working above and below the center cable as if tightening the lug nuts on a tire (See Figure H). Again tension the nuts three (3) or four (4) full rotations or until the cable is snug. You will notice as you tension, the cables surrounding it will slacken. When this happens, stop tensioning and move onto the next cable.



**Figure D. (Left)** Attach the first cable to the HandiSwage stud. Place the plastic washer, nut and lock on the end of the shank.



**Figure E. (Right)** Pull the cable tight to the back of the swage fitting. Mark and cut the cable as shown. Swage the second fitting in accordance with the swaging tool instructions.



**Figure F.** Option one (1) is to hold the back of the stud with vice grips while tightening the nut.



**Figure G.** Option two (2) is to use a cable grip pad to hold the cable just outside the post while tightening the nut.



**Figure H.** Begin with the center run of cable and alternate working above and below until all the cables are tight.

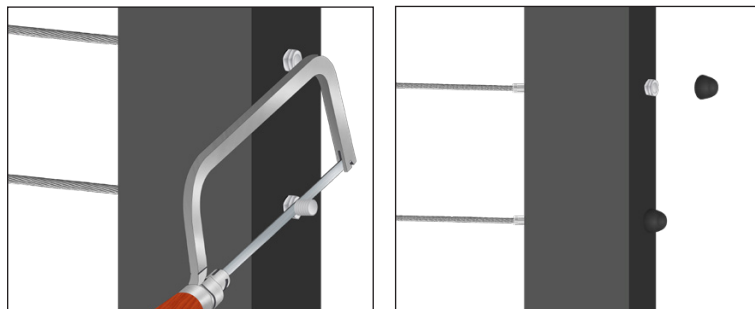


### Make Final Adjustments

Go back to the center cable and re-tighten the cables until all are tight and relatively equal in tension. You may find that you need to do this three (3) or four (4) times getting down to even a quarter turn of the tensioning nut each time. Tension from both sides when necessary.

### Install the Cover Nuts

With the cables tensioned, it's time to install the lock nuts and cover nuts. Using the HandiSwage Combination Wrench (part # C0731-TK01-2) hold in place the nut with the 7/16" end of the wrench and tighten the lock nut with the 3/8" end of the wrench. Using a hacksaw, cut the remaining shank flush with the stainless steel lock nut. Then place the cover nut over the assembly until it is flush with the post (See Figure I).



**Figure I.** Cut the remaining shank flush with the lock nut, then place the cover nut over the assembly.

## Final Assembly

### Gate Placement

Again rest the NOVA II Gate on top of two (2) wood blocks, position the gate between the two (2) end posts which have been designated as the desired gate placement.



**USE WOOD SHIMS IN ADDITION TO THE WOOD BLOCKS TO RAISE THE GATE TO THE DESIRED HEIGHT.**

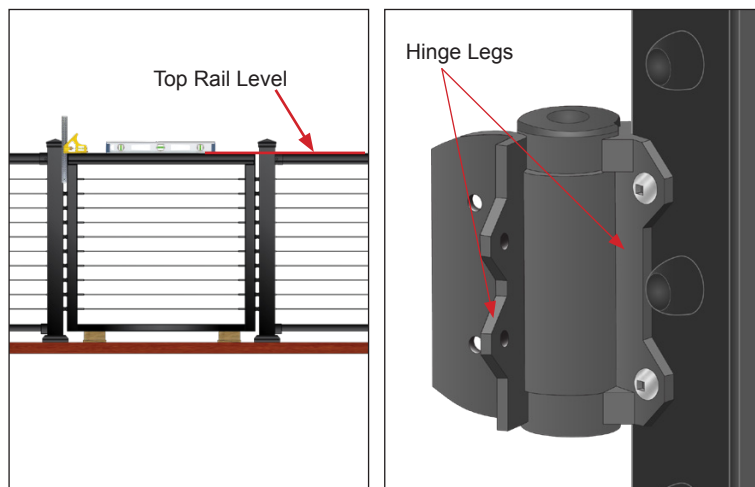


**THE TOP RAIL OF THE NOVA II GATE SHOULD BE LEVEL WITH THE TOP RAIL OF RAILING SYSTEM.**

Use a level and carpenter's square to assist in the proper positioning of the gate (See Figure J).



**THE HINGE LEGS HAVE BEEN MACHINED TO FIT AROUND THE HANDISWAGE STUDS AND NOVA II COVER NUT SETS (SEE FIGURE K).**



**Figure J.** (Left) Position again the NOVA II Gate utilizing wood blocks, shims, level and carpenter square.

**Figure K.** (Right) The hinge legs have been machined out to fit around the HandiSwage Studs and NOVA II Cover Nut Sets.

### Attaching Gate to Railing System

Hold in place a NOVA II Gate Hinge against the outer face of the fence post and the gate frame. With a #2 Phillips driver bit, screw the hinges with four (4) #10 x 1 self drilling screws. Repeat actions for the second hinge (See Figure L - Right Inset). Hold in place the NOVA II Gate Locking Latch. The latch mechanism consists of two pieces; the latch body and the catch. With a #2 Phillips driver bit screw the hinges with four (4) #10 x 1 self drilling screws for both the latch body and catch (See Figure L - Left Inset).



**DETAILED INSTALLATION INSTRUCTIONS SUPPLIED WITH LATCH AND HINGE HARDWARE KITS.**



**Figure L.** Utilizing the NOVA II Gate locking latch and hinge hardware screw in with a #2 Phillips driver bit the supplied #10 x 1 self drilling screws.

## Installing Cable Grommets

Utilizing the grommet install tool (part # E0916-1000) makes installing cable grommets easy.



**THE GROMMET INSTALL TOOL (PART # E0916-1000) ACCOMODATES BOTH 1/8" AND 5/32" CABLE GROMMET SIZES.**

Align the slot of the cable grommet with the slot of the cable grommet install tool (See Figure M).



**NOT ALIGNING THE SLOTS OF THE CABLE GROMMET AND TOOL WILL NOT ALLOW THE CABLE GROMMET TO BE INSTALLED.**

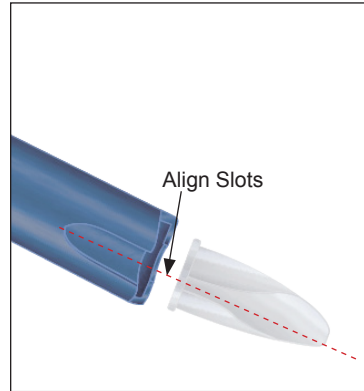
Insert the flange of the cable grommet into the bottom side of the grommet install tool; making sure the slots are still aligned (See Figure N).

Holding the grommet install tool in one hand and placing ones thumb on the top side of the cable grommet, push the cable grommet onto the cable in a downward motion. A little force will need to be applied to fit the cable grommet onto the wire (See Figure O).

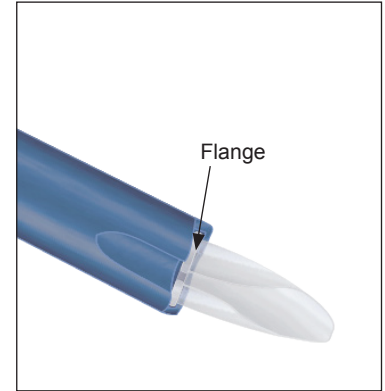


**ALWAYS POINT THE TIP OF THE CABLE GROMMET INWARDS TO THE POST HOLE AND KEEP THE POSITION OF THE SLOT DOWNWARDS TO ALLOW WATER TO DRAIN.**

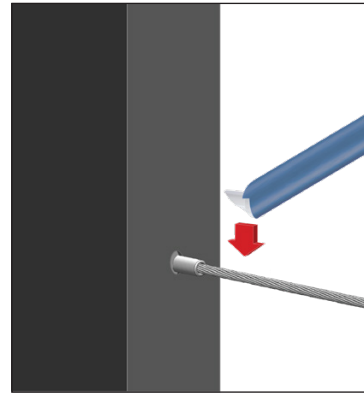
After the cable grommet is placed onto the cable, remove the grommet install tool from the flange of the cable grommet. Place the grommet install tool on the wire (using the slot in the tool as a guide) push the cable grommet into the cable hole in the post until it fits flush (See Figure P).



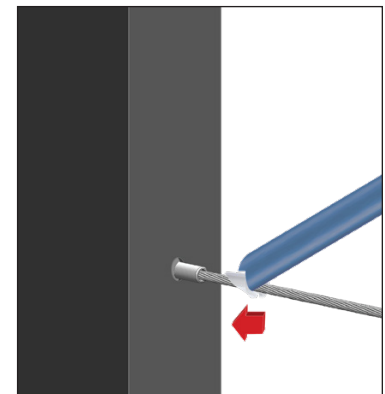
**Figure M. (LEFT)** Align the slot of the cable grommet with the slot of the tool.



**Figure N. (RIGHT)** Insert flange of cable grommet into the tool.



**Figure O. (LEFT)** With the grommet install tool, push the cable grommet onto the cable in a downward motion.



**Figure P. (RIGHT)** With the grommet install tool, push the cable grommet into the cable hole in the post until it fits flush.

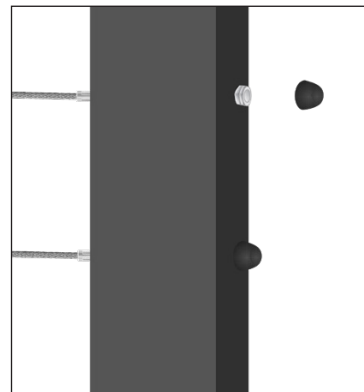
## NOVA II Gate Accessories

### NOVA II Cover Nut Sets (C0916-XX02-10, C0916-XX02-12)

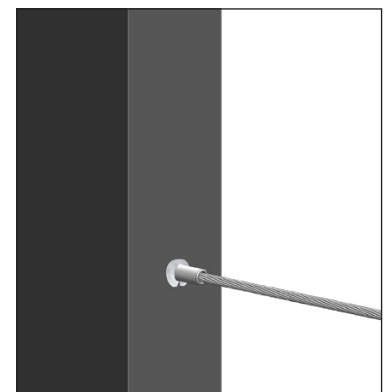
The NOVA II Cover Nut Sets includes a plastic washer, stainless steel nut, stainless steel lock nut and plastic cover nut. They are used with the HandiSwage Stud for tensioning capabilities. Place the plastic washer and stainless nut onto the shank of the stud, tension, remove the excess thread and affix the plastic cover nut for a finished look (See Figure Q). Available in black, white and bronze colors and in packs of ten (10) or twelve (12).

### NOVA End/Corner Grommet - C0916-B003-10, C0916-B003-12

Once the cable has been installed and tensioned, it is time to add the cable grommets (part # C0916-B003-10, C0916-B003-12). The end/corner grommet (See Figure R) helps prevent movement and deflection of the cable, as well as, reduces dirt and moisture from getting inside the posts. These grommets are used on the NOVA II gate. It fits over the HandiSwage Stud. These grommets are slotted for easy attachment onto the cable. Available in packs of twenty five (25).



**Figure Q. (LEFT)** Place the plastic washer, nut and lock nut onto the shank of the HandiSwage Stud, tension, remove the excess thread and affix the plastic cover nut.



**Figure R. (RIGHT)** The end/corner grommet helps prevent movement and deflection of the cable.

## NOVA II Gate Specifications

The NOVA II Gate features a pre-welded and powder-coated aluminum frame with a handrail that matches your NOVA II System, and horizontal cable infill. The cable infill utilizes HandiSwage™ fittings with 1/8" cable. The NOVA II Gate are available in 36" and 42" sizes.

### Railing Finish

The NOVA II Gate is offered in a powder coated black, white and bronze finishes.

### Cable Spacing

The cable is spaced on the gate at 2-3/4" on-center to comply with nationwide building codes.

## NOVA II Gate Product Specifications

Part Number	Description	Use
<b>Gates</b>		
A0906-G036-XX*	NOVA II Gate 36"	Attaches to 36" surface mount straight or stair post
A0906-G042-XX*	NOVA II Gate 42"	Attaches to 42" surface mount straight or stair post
<b>Cable Mounting Hardware</b>		
C0731-H0703-2	HandiSwage Stud (2 pack)	Attaches to cable on level posts
C0731-H0703-10	HandiSwage Stud (10 pack)	Attaches to cable on level posts
<b>Gate Mounting Hardware</b>		
P0906-0027	NOVA II Gate Latch Kit	Surface mounts to posts and gate
P0906-0028	NOVA II Gate Hinge Kit	Surface mounts to posts and gate
P0906-0013	#10 x 1 self drilling screws	Use with NOVA II Gate latch and hinge kits
<b>Accessories</b>		
C0916-B003-25	NOVA End/Corner Grommet (25 pack)	Grommet that attaches to HandiSwage Studs on end and corner level posts
C0906-XX02-10* & C0906-XX02-12*	NOVA II Cover Nut Set (10 pack or 12 pack)	Use with HandiSwage™ Studs to tensioner and give a finished look
<b>Tools</b>		
E0916-1000	Grommet Install Tool	Grommet install tool makes installing cable grommets easy
C0731-TK01-2	HandiSwage Combination Wrench 3/8" & 7/16"	Used to install the NOVA II Cover Nut Sets

\* "XX" in the part number is the color designation. Replace with "BK" for black, "WH" for white or "BZ" for bronze.