



SIDE TENSION - INSTALLATION INSTRUCTIONS

Safe Screen Handling	Recommended Safety Tools
Store the screen flat or hanging only - do not lay on uneven surfaces	Safety Glasses
Do not stand screen cloth on its side for storage	Hard Hat
Do not bend or walk on screen cloth	Gloves
Do not throw screen cloth on the ground	
Do not expose screens to excessive heat	
Screen Installation is a 2 person job	

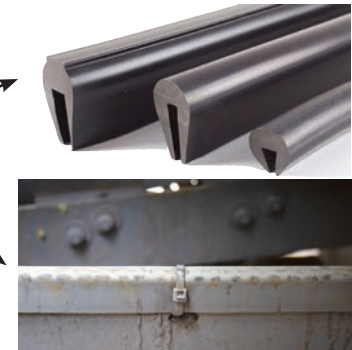
Due to the nature of the wire being used, wires not lining up while screen is without tension should not affect performance

PRE-INSTALLATION

Replace Crown Bar Rubber

- For superior performance and proper fit/protection, install new crown bar rubber (capping rubber, bucker rubber) with each new set of MAX Kleen screens.

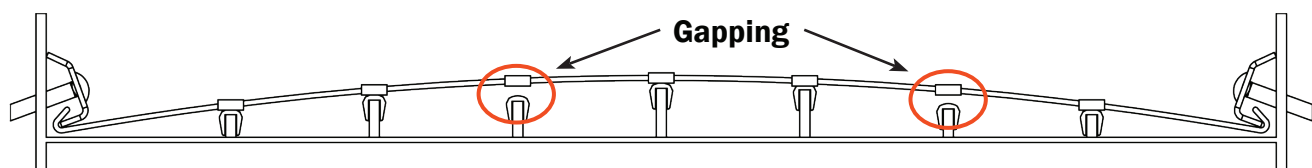
Crown Bar Rubber



!!!IMPORTANT!!! Crown bar rubber must cover the entire length of the crown bar, from end to end, to prevent gapping that can cause wire breakage.

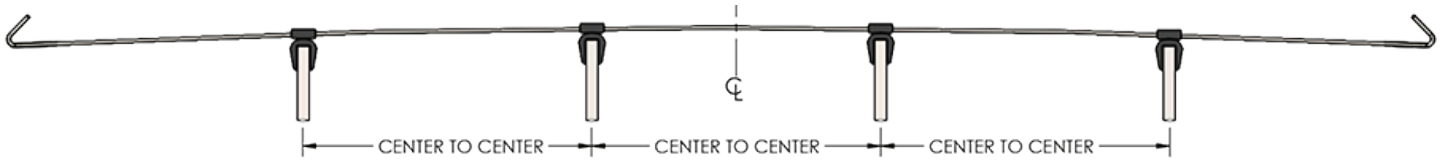
Check Crown Bar Height

- Working from one sideplate to the other, pull a string tightly over the crown bar supports to check for possible height differences.
- If gapping exists between the string and any of the crown bars, then the height of the crown bars must be corrected.
- Breakage will occur if crown bar height differences are not fixed prior to installation.



Measure Screen

- Measure length & width of replacement screen and machine screen box to compare.
- Screen hooks should have $\frac{1}{2}$ " - $\frac{3}{4}$ " clearance on each side with respect to clamping rails, to ensure room for stretching.



Clear Clamping Rail

- Clear clamping rails of accumulated fines and/or buildup prior to screen installation.

Bolts

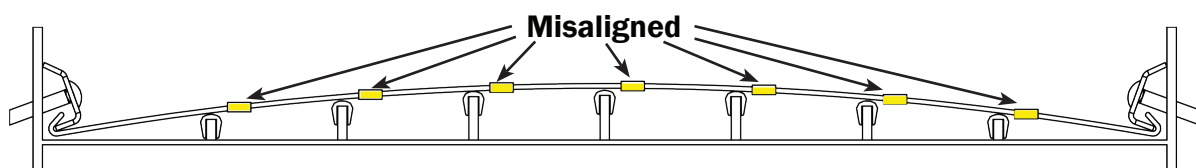
- Wedges, springs, or rubber donuts SHOULD NOT be used.
- Ensure that the screen box is equipped with bolt-type fasteners only.
- Ensure that bolts are not rusty or stripped and are the correct length prior to installation.



INSTALLATION

Align Urethane Strips with Crown Bars

- It is of vital importance that the MAX Kleen Screen's urethane strips line up with the screen crown bar supports – if not, the life and efficiency of the screen will be significantly reduced.
- Center screen on top of crown bars before fastening or tightening to ensure that every urethane strip aligns with each bar.



Seating the Hooks

- Ensure that the clamp rails are seated securely into hooks by very firmly pushing into place.

!!!IMPORTANT!!! Take special care not to catch the “lip” of the screen hook when seating the clamp rail - this will cause the screen to rapidly de-tension during use as the hook is forced apart.

Incorrect



Correct

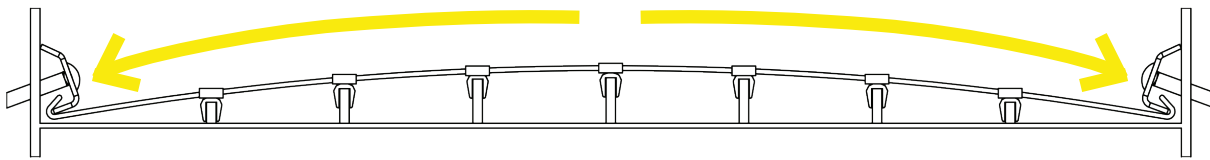


Center Hold-Down Bars

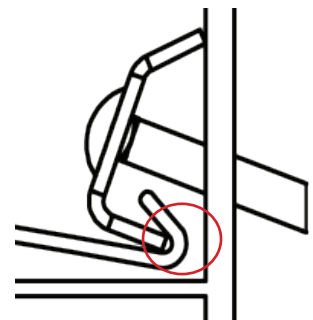
- If center hold-down bar exists, tighten first after screen cloth is positioned properly.

Tensioning

- In the absence of a center hold-down bar, tighten the clamp rail bolts on both sides of the screen. DO NOT tighten from only one side – begin at the center and work towards each end.

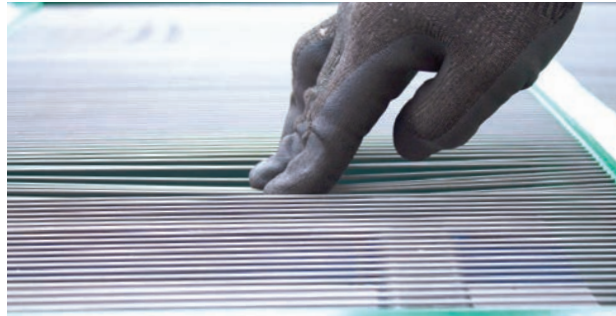


- Always tighten inner clamp rail bolts before tightening outside bolts and tension evenly.
- Do not over-tighten bolts when using an impact wrench.
- Stretch your MAX Kleen screen until it is taut – it should not flex significantly when pressed.
- Neither side of the screen should touch the side of the screen box after proper tensioning is completed.



Test Tension

- Push fingers down hard on cloth. Must be tight with little or no deflection of wire - wire breakage may occur if the MAX Kleen Screen is not stretched tight.



Overlap Application

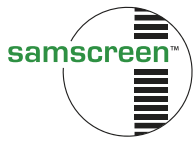
- If multiple screens are being used, install the screen at the discharge end first, so that the overlaps of each subsequent screen cascade towards the discharge end - running with the flow of material.



Test Run

- Test run the screen with no load for a few minutes before rechecking tension by checking if bolts remain tight. Next run screen loaded for two hours before rechecking bolts and overall tension a final time.

!!!IMPORTANT!!! Continued blinding problems can occur when cloth is not stretched to adequate tightness. When screen cloth is too loose, the urethane gets black marks on its underside and wires can break. If urethane strips fail to line up with crown bar supports the cloth wires can break.



END TENSION - INSTALLATION INSTRUCTIONS

Safe Screen Handling	Recommended Safety Tools
Store the screen flat or hanging only - do not lay on uneven surfaces	Safety Glasses
Do not stand screen cloth on its side for storage	Hard Hat
Do not bend or walk on screen cloth	Gloves
Do not throw screen cloth on the ground	
Do not expose screens to excessive heat	
Screen Installation is a 2 person job	

Due to the nature of the wire being used, wires not lining up while screen is without tension should not affect performance

PRE-INSTALLATION

Replace Crown Bar Rubber

- For superior performance and proper fit/protection, install new crown bar rubber (capping rubber, bucker rubber) with each new set of MAX Kleen screens.

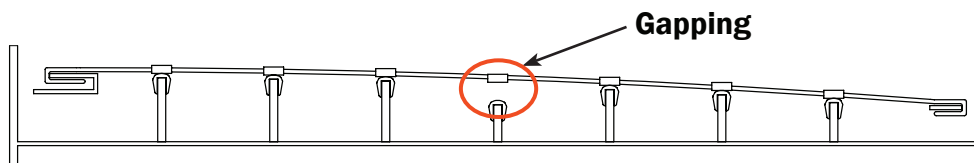
Crown Bar Rubber



!!!IMPORTANT!!! Crown bar rubber must cover the entire length of the crown bar, from end to end, to prevent gapping that can cause wire breakage.

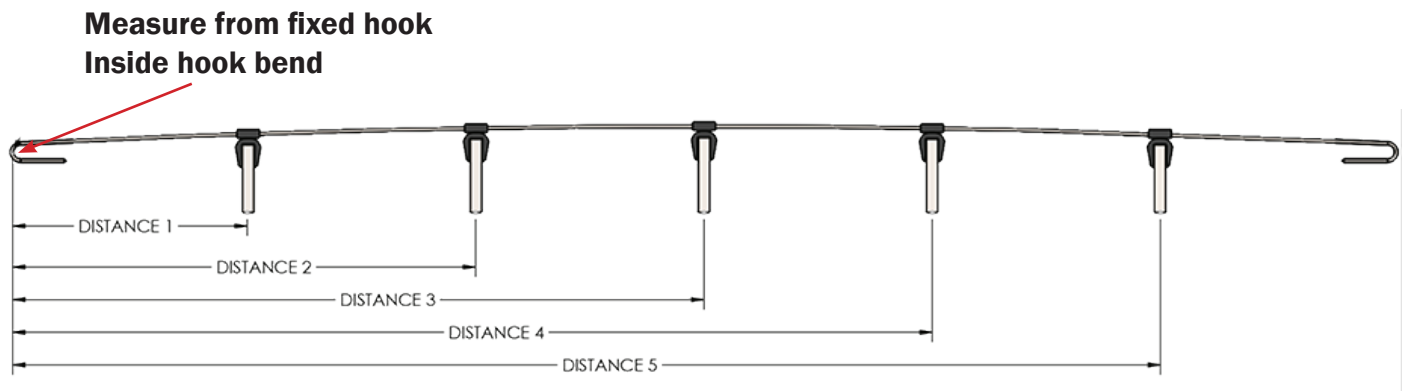
Check Crown Bar Height

- Working from the fixed end to the tension end, pull a string tightly over the crown bar supports to check for possible height differences.
- If gapping exists between the string and any of the crown bars, then the height of the crown bars must be corrected.
- Breakage will occur if crown bar height differences are not fixed prior to installation.



Measure Screen

- Measure length & width of replacement screen and machine screen box to compare.
- Screen hooks should have $\frac{1}{2}$ " - $\frac{3}{4}$ " clearance on each end with respect to the fixed and tension ends, to ensure room for stretching.



Clear Screen Ledge

- Clear screen ledge of accumulated fines and/or buildup prior to screen installation.

End Tension Fixed End



Bolts

- Wedges, springs, or rubber donuts SHOULD NOT be used.
- Ensure that the screen box is equipped with bolt-type fasteners only.
- Ensure that bolts are not rusty or stripped and are the correct length prior to installation.

Bolt-type Fastener Tension System



INSTALLATION

Align Urethane Strips with Crown Bars

- It is of vital importance that the MAX Kleen Screen's urethane strips line up with the screen crown bar supports – if not, the life and efficiency of the screen will be significantly reduced.
- Center screen on top of crown bars before fastening or tightening to ensure that every urethane strip aligns with each bar. If strips do not align, try rotating the screen 180 degrees to check that screen orientation is correct.



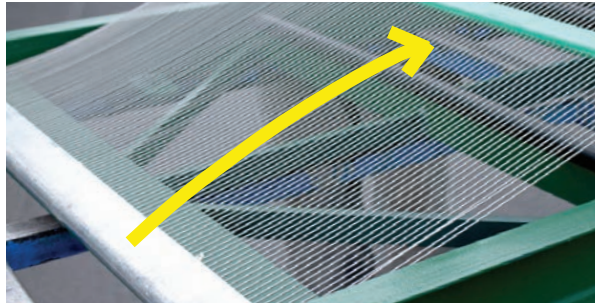
Banana Bar Orientation

- The banana bar (tension bar) has a subtle bend to it. Ensure that the bar is oriented as shown. When the screen hook is seated correctly over the banana bar, the center point of the bar will hit the back of the hook first.

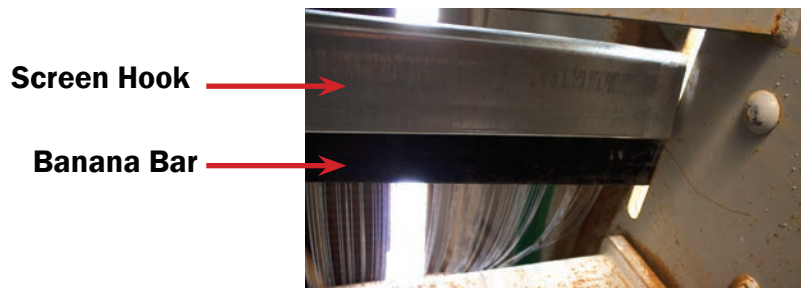


Tensioning

- Lower the screen into the tension end. Holding the screen at an angle will help the hook slip into the opening.



- Slide the banana bar towards the end of the frame until there is just enough room to put the clamps over the tension bar. Hand thread the bolts into the clamps just a few threads.

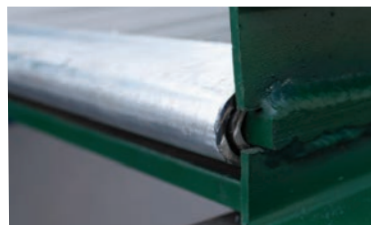


- Once the clamps are attached, check the fixed end to make sure the hook backleg is positioned to slide over the fixed bar in the frame. Make sure the hook is not misaligned to the slot.

Incorrect



Correct

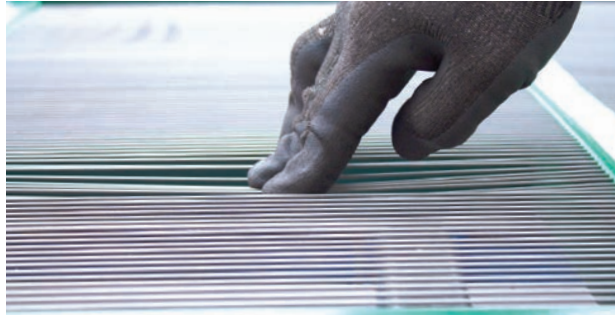


- Take all the slack out of the screen using the tensioning bolts until both sides feel some resistance. Switch between tightening bolts 1 through 4 regularly, do not tension each side independently. Tighten incrementally to keep the bar square and even. This is a two man job.
- Continue to tension carefully until the wires are taught.

!!!IMPORTANT!!! It is especially important to tension screen evenly when using a hydraulic tensioner

Test Tension

- Push thumb down hard on cloth. Must be tight with little or no deflection of wire - wire breakage may occur if the MAX Kleen Screen is not stretched tight.



Test Run

- Test run the screen with no load for a few minutes before rechecking tension by checking if bolts remain tight. Next run screen loaded for two hours before rechecking bolts and overall tension a final time.

!!!IMPORTANT!!! Continued blinding problems can occur when cloth is not stretched to adequate tightness. When screen cloth is too loose, the urethane gets black marks on its underside and wires can break. If urethane strips fail to line up with crown bar supports the cloth wires can break.

INSTALLATION CHECKLIST

- ✓ **The string test revealed no height differences between crown bar supports**
- ✓ **Urethane strips were lined up over crown bar supports**
- ✓ **If Side Tension - the clamp bar bolts were alternately tightened on both sides of the screen starting from the center of each clamp bar**
- ✓ **If End Tension - all 4 tension bolts were tightened alternately and evenly, keeping banana bar square throughout tensioning process**
- ✓ **Screen was tight with very little deflection when pressed**
- ✓ **Bolts were re-tightened after running material over screen for 2 hours**

STEPS TO ENSURE PEAK SCREEN EFFICIENCY & WEAR LIFE

➤➤ **Tensioning must be adjusted 3 or 4 times during installation to gradually stretch the MAX Kleen Screen**

Step 1: Run the screen empty for a few minutes

Step 2: Stop and re-tighten screen

Step 3: Repeat steps 1 and 2 several times until screen is very taut and lies perfectly flat – the vibrations of the running machine help facilitate this

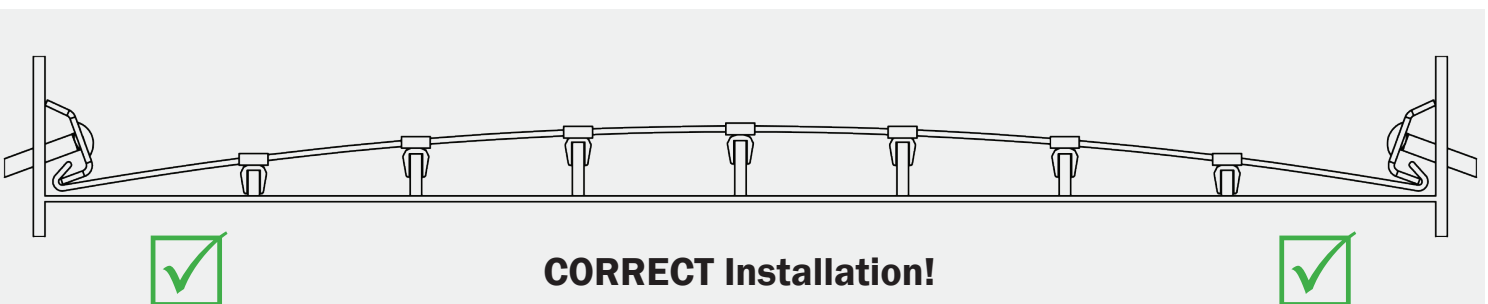
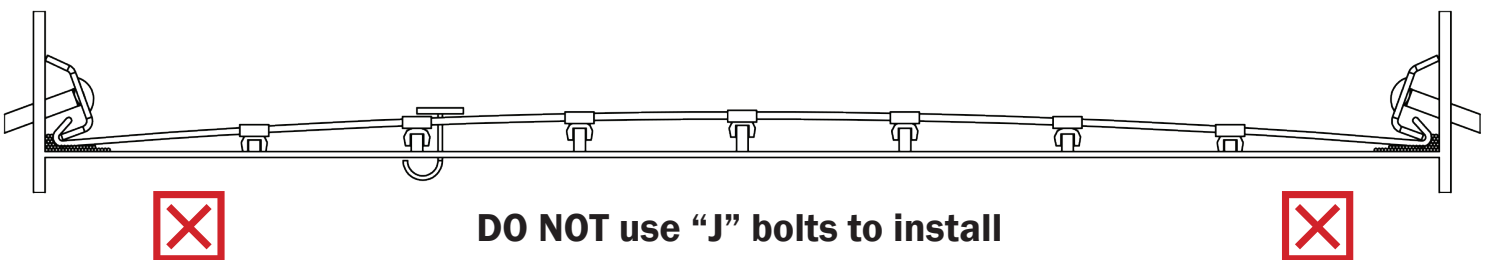
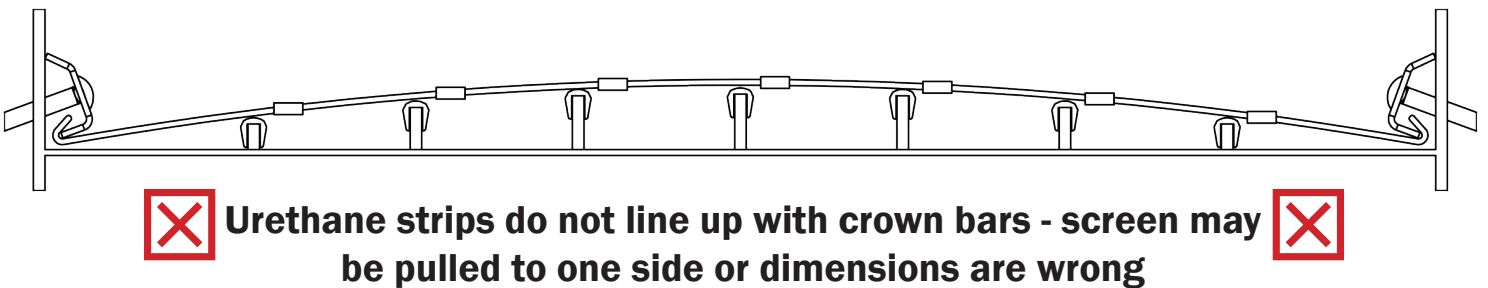
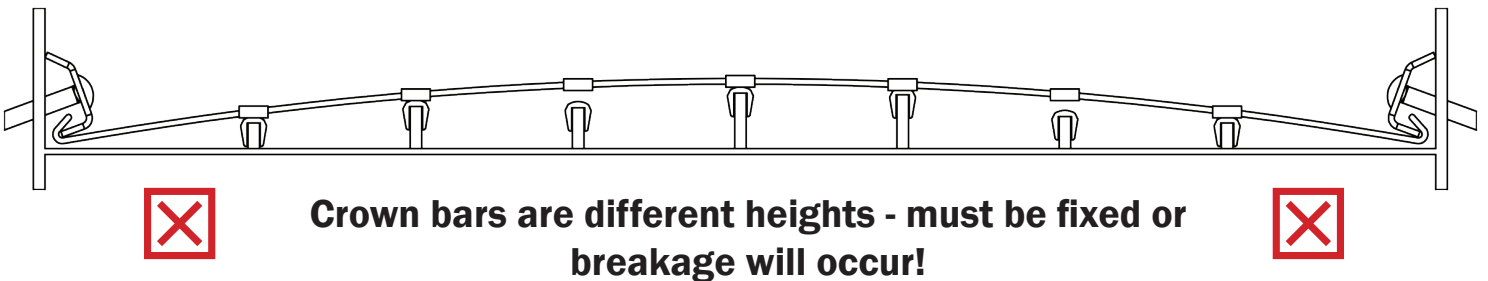
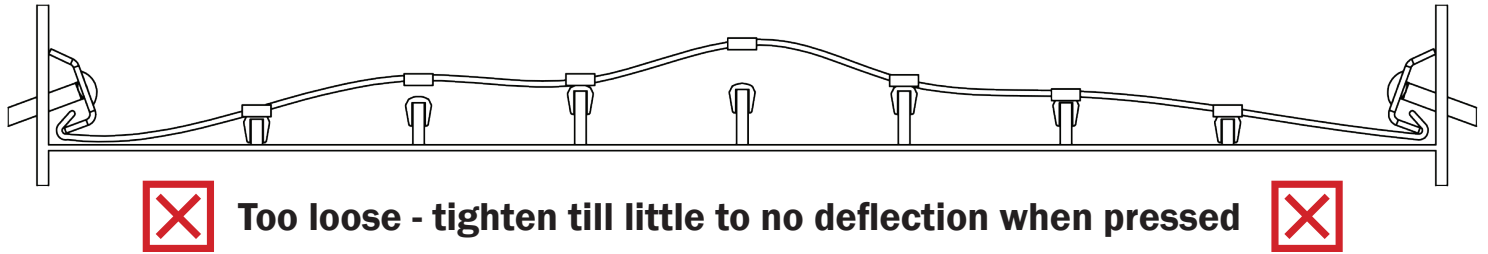
Note: If a wire becomes deformed in handling, causing the crimp to open and stretching is insufficient to restore mesh, tension must be released and the crimp must be reformed with needle-nose pliers. The steps above will then have to be repeated to stretch the screen.

Step 4: Run the screen under load for 2 to 4 hours

Step 5: Stop and re-check the screen to make sure that it remains taut with very little deflection when pressed

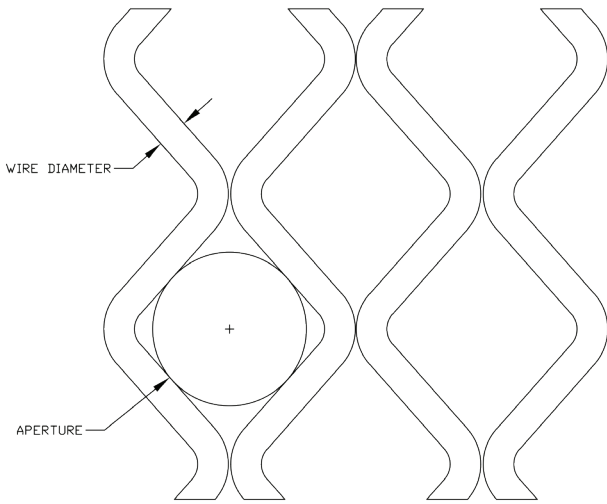
****If you have any questions during the installation process or about the product, please contact your dealer***

MAXgreen™ QUICK CHECK

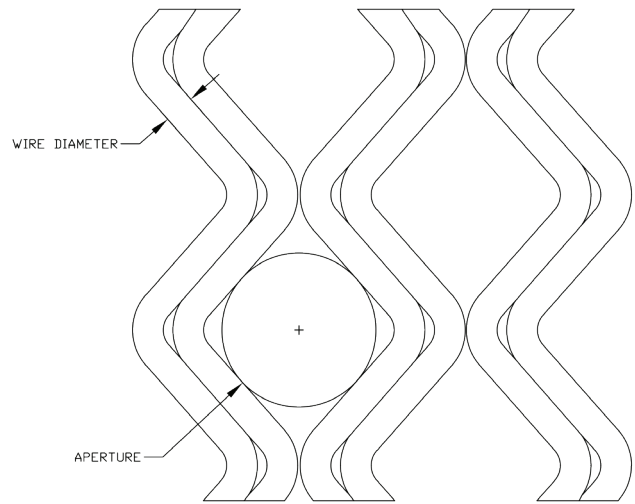


HOW TO Measure your MAX Kleen™ Screen

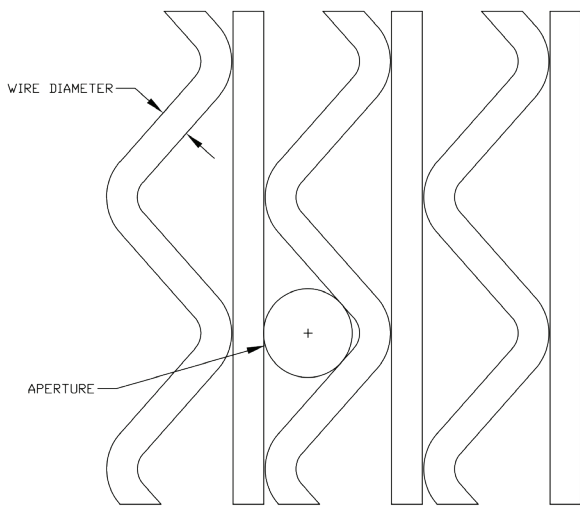
Kleen-D



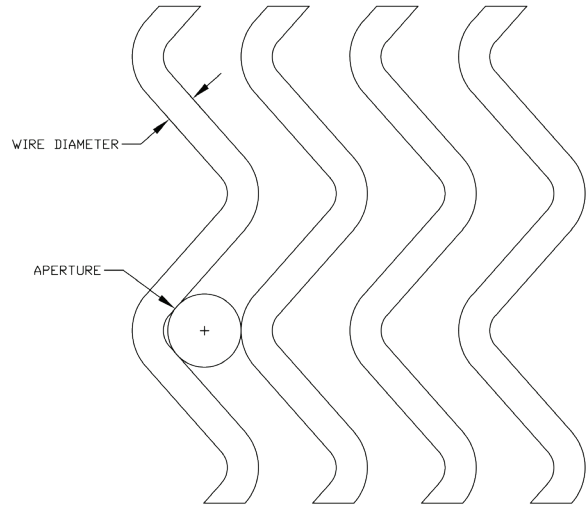
Kleen-DD



Kleen-V



Kleen-S



Kleen-P & Kleen W

