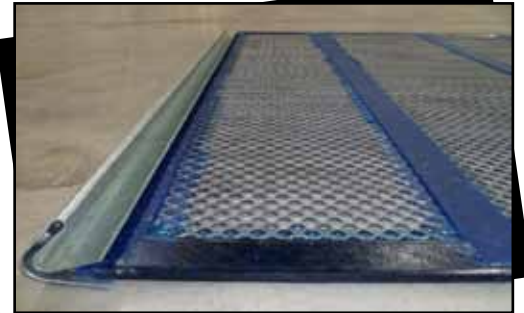




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Screen Cloth Replacement Guide

For cross tensionable screens including Wire, Polyurethane, Rubber & Punch Plate



1. REMOVAL OF OLD SCREEN (visual inspection)

- Look for isolated worn areas underneath old cloth.
- Look for wear patterns at longitudinal stringer bar locations.
- Look at the hook outer surface for isolated wear.
- Look inside the hook for uneven wear caused by the side clamping bar.
- Look for wear patterns near the bolt holes to see if the cloth was centralized when installed
- Look for premature broken wires. Broken wires may be caused from:
 - * Worn surface (end of useful life)
 - * Incorrect tensioning of the screen cloth.
 - * Incorrect camber.
 - * Screen overload (designed tonnage exceeded)
 - * Faulty workmanship/materials

Broken wire location does not necessarily indicate a particular problem area in a screen. Wires normally break near pivot points such as the hook area, longitudinal stringer bars and hold down bars

2. CLEAN DECK SURFACE THOROUGHLY

Ensure that all material is cleaned away from:-

- Cross beams
- Support angles/channels
- Side angles/channels
- stringer/Capping bars

3. INSPECT DECK

- Look for structural failures on the whole deck including underneath the deck on the sub-frame
- Ensure that the longitudinal stringer bars are straight and parallel with each other and have the correct rubber capping and it's in good condition.
- Check that the side angles/channels are flat and straight
- Check that the side plates run parallel with support stringer bars and that they are straight

4. INSPECT SIDE CLAMPING BARS

- Ensure the bars are not excessively worn and that they are straight.
- Ensure that the clamping bars are no longer than the screen cloth hooked edges.

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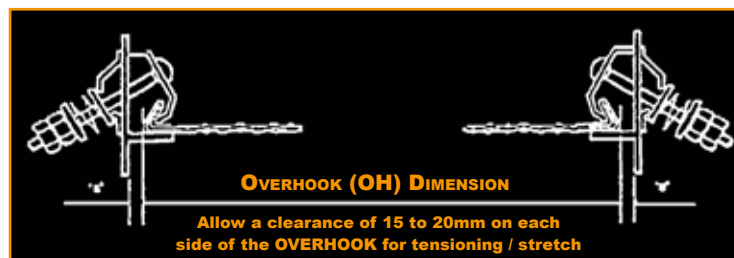
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5. INSPECT ALL BOLTS

- If in doubt, use new bolts and nuts [wedge bolts are also a good option]
- Ensure bolts have enough thread to apply ample tension, however, excessively long bolts should be avoided
- Do not pack nuts out with more than one washer. This may cause the bolt to work loose and reduce the tension in the screen cloth

6. INSTALLATION OF NEW CLOTH -Visual

- Ensure the screen cloth selection is correct for the type of machine, check that the duty of the mat is designed for the application [check this with your local AEG sales representative]
- Ensure the screen cloth is approximately 20mm per side less than the side plate width dimension of the machine [40mm total clearance +/- 5mm]
- Ensure the cloth is equally positioned from both sides and the cloth will rest on the side angles/channels under minimum tension



Initial Engagement

- Engage the side clamps in the hooks ensuring that the clamp bar sits correctly inside the hook
- Make sure the side clamp bars are the correct way up. The wrong way up will cause incorrect tensioning of the screen cloth

Tensioning

- Slightly tension the screen cloth by ALTERNATING between bolts, applying only a small amount of torque to each bolt
- If there are centre bolt holes, ensure that the mat is centralized correctly and that there is a slight tension evenly applied across the screen cloth
- Place Hold Down Bars into position and clamp down recommended bolt torques i.e. M16 (140Nm)
- Progressively tighten the Side Clamp Bars ALTERNATING in small torque increments until the mat 'DRUM' tight (approx 100-120Nm)



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THE MAT IS NOW INSTALLED – BUT NOT READY FOR USE

7. MAINTENANCE

- Run the machine for 10 minutes then:-
- Check ALL screencloths for alignment and tension
- If any alterations are required, run the machine again for 10 minutes then re-check
- Re-check screencloths after 4-6 hours of production and make adjustments as necessary.
- Most screen tension adjustments are made with-in the first two weeks of use. The screencloth, by virtue of its construction and use, will 'stretch' and therefore lose its initial tension. The clearance allows the screencloth additional tensioning throughout its working life. We recommend that all sub-frames and screencloths should be checked for wear, damage and tension every 24 hours of production – on an on going basis.

8. THE SCREEN CLOTH

- The screen unit (machine) comes in a variety of dimensions, commonly described as 16 x 6, 20 x 8, 12 x 4 etc, referring to the old imperial measurements of say 16ft x 6ft
- The screen cloth is usually a section of length of the machine; however, not all machines operate with the same length. A 20 x 8 machine may be divided into 1220mm (4ft) sections at one site, yet into 1525mm (5ft) sections at another

FREQUENTLY ASKED QUESTIONS

What is the correct length?

Simply, the length of the screen should be the length of the side-clamping bar

Why should the screen cloth length be the same as the side clamping bar?

Variations in widths can occur between deliveries and even within the same delivery. When the clamping bar is placed across two screen cloths it will only tension up on the high points of the cloths, therefore if the screen cloths are not of equal widths, parts of the individual cloths will not be tensioned properly and will fail prematurely

What is an overlap and when is it used?

An overlap is an extra allowance of mesh added to the length, usually 25mm so as to prevent oversize product falling between screencloth sections. An overlap is not used when only one section is fitted or when the aperture of the screen cloth is greater than 14mm [some like to cover this up to 20mm apt]

What is the correct width?

As with the length, the width is implied by a nominal number e.g. 16 x 6. The screening unit (machine) can vary between manufacturers e.g. Imperial units or metric units, therefore a nominal 16 x 6 machine can be 1800mm or 1835mm between the side plates of the machine.

So the correct width is the horizontal distance between the machine side plates less 40mm. This will allow for correct tensioning of the screen cloth.

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