Aury Stocks a Wide Range of Woven Wire Screen Cloths

Aury prides itself in the manufacture and supply of woven wire screens, all our screens are made to the highest quality specifications with a specific type of screen available to suit any of your screening requirements.

Weave Types

1. Plain Weave – Inter-crimp / lock crimp.
2. Slotted Weave – Single shute / double shute / tripe shute.
3. Flat Top Weave – Flat screening surface.
4. Harp Weave – Non-blinding / self cleaning.
5. Poly Harp Weave – Non blinding / self cleaning.
6. Piano Wire Screens – Cross harp straight wires.

Material Types

High Carbon Spring Steel

- Most common, high mechanical strength and is sufficiently malleable to allow deformation without the introduction of defects eg. Cracks etc.
- Resistant to abrasion, shock, vibration and heavy loads.

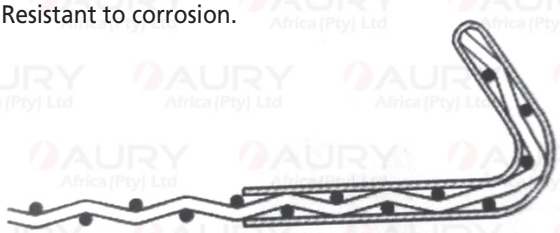
Stainless Steel 304/316

- 304 Most versatile and most common. Responds well to hardening by cold working. Can operate up to 850°C. Resist to corrosion.
- 316 Enhanced resistance to pitting and crevice corrosion in chloride contaminated media. Can operate up to 870°C. Resistant to corrosion.

Hook Types (Most popular hooks lean at 45° or C shaped at 180°)



Plain Hook – used for wire diameters greater than 40mm.



Metal Edge – Hook has a 1.6mm galvanised plate covering the hooks, bent at 45° or C shaped at 180°. Used for wire diameters 4.0mm down to 0.71mm.



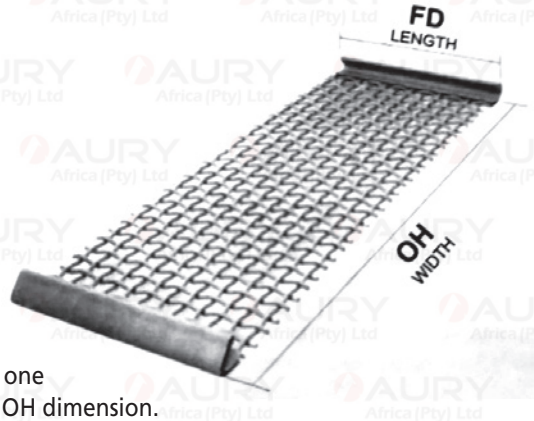
Double Fold Metal Edge with Canvas Hook – Hook has a 1.6mm galvanised plate covering the hooks with a double fold including a piece of canvas between the hooks and metal plate in order to prevent the mesh from tearing. Used on 80 mesh or greater.



Double Fold Metal Edge Hook – Hook has a 1.6mm galvanised plate covering the hooks with a double fold bent at 45° or C shaped at 180°. Used on 0.7mm wire down to a 75 mesh.

Important Information When Ordering Woven Wire

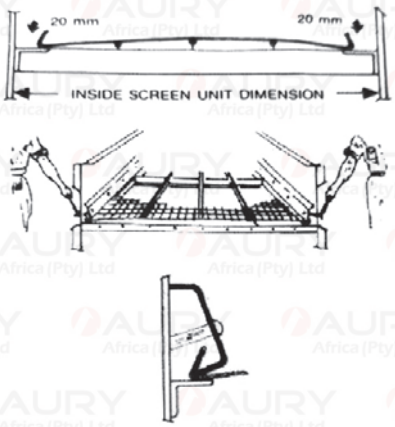
1. Quantity required.
2. Dimensions – length, width and / or over-hook dimensions.
3. Material type.
4. Aperture square slot, if slot which dimension is the slot parallel to.
5. Over-hook confirmation.



FD – Refers to the free dimension, this is the dimension the hook runs along.

OH – Refers to the distance between the hooks, place your tape measure on the one hook and pull it across to the next hook, that dimension will be regarded as the OH dimension.

Important - Remember to tension your screen correctly and ensure you have noising rubber covering your camber bars (frame).



Tensioning of Screen Cloths

Generally, the overall hooked edge dimension is the inside dimension of the unit less 40mm. This provides for 20mm clearance to each side of the screen cloth.

Recheck all tension bolts against following 1 hour's running. The amount of re-tension will depend upon the particular specification but generally all screen cloths will require re-tensioning, as the wires bed into the pre-crimped forms.

Engage clamping bars securely into hooked edges taking care they clear any sheet metal lip.

Aperture Verse Wire

The below table refers to the standard apertures verse wire diameter to be used in relation to the vibrating screen feed sizes.

A. Heavy – 1901 - 2250Kg per cubic meter heavy ores, high abrasives.

B. Medium heavy – 1601 - 1900Kg per cubic meter moderate ores, moderate abrasives.

C. Medium – 1201 - 1600Kg per cubic meter moderate abrasives, limestone, gravel.

D. Light – 801 - 1200Kg per cubic meter coal, non abrasives.

	A Heavy		B Medium Heavy		C Medium		D Light		Feed Size		
Apert.	Wire	0a%	Wire	0a%	Wire	0a%	Wire	0a%	1	2	3
100	20,0	69	16,0	74	12,5	79	11,2	81	180	215	250
90	16,0	72	12,5	77	11,2	79	10,0	81	150	190	230
76	16,0	68	12,5	74	11,2	76	10,0	78	150	190	230
70	12,5	72	11,2	74	10,0	77	9,0	79	125	165	200
65	12,5	70	11,2	73	10,0	75	10,0	75	125	165	200
56	12,5	67	10,0	72	9,0	74	8,0	77	125	165	200
50	12,5	64	10,0	69	9,0	72	8,0	74	125	165	200
48	11,2	66	9,0	71	8,0	73	7,1	76	115	140	180
44	11,2	64	9,0	69	8,0	72	7,1	74	115	140	180
42	11,2	62	9,0	68	8,0	71	6,0	77	115	140	180
38	10,0	63	8,0	68	7,1	71	6,0	75	100	125	150
36	10,0	61	8,0	67	6,0	73	5,6	75	100	125	150
32	10,0	58	8,0	64	6,0	71	5,0	75	100	125	150
28	9,0	57	7,1	64	6,0	68	5,0	72	90	115	130
25	8,0	57	6,0	65	5,6	67	5,0	69	90	115	130
22	7,5	56	5,6	64	5,0	66	4,5	69	75	95	115
19	7,1	53	5,6	60	4,5	65	4,0	68	75	95	115
16	6,0	53	5,0	58	4,5	61	3,6	67	65	80	95
14	5,0	54	4,5	57	4,0	60	3,15	67	65	80	95
12	5,0	50	4,5	53	3,6	60	2,8	66	50	65	75
11	4,5	50	4,0	54	3,1	60	2,8	64	50	65	75
10	4,0	51	3,6	54	3,1	58	2,5	64	38	50	65
8	3,6	48	3,2	51	2,8	55	2,0	64	38	50	65
6	3,2	43	2,8	46	2,5	50	1,8	59	25	38	50
5	2,5	44	2,0	51	1,6	57	1,2	65	19	25	38
3	2,0	36	1,8	39	1,4	46	1,0	56	16	19	25
2	1,25	38	1,0	44	0,9	48	0,71	54	12	16	19
1,6	1,0	38	0,9	41	0,8	44	-	-	10	12	16
1,4	0,9	37	0,8	40	0,71	44	-	-	8	10	12
1,25	0,8	37	0,71	41	-	-	-	-	6	8	10

Wire sizes listed above are suitable for deed sizes in column 1. When feed size exceeds column 1 but not column 2 use next larger wire size (if available). When it exceeds column 2 but not column 3, increase wire diameter to two sizes (if available). When column 3 is exceeded a relief deck is recommended to increase the life of wire.

Important - Thickest wire may not always provide the best efficiency. Consult the table above.

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