

TRELLIS SYSTEMS FOR DECIDUOUS FRUIT

	V-Trellis	Palmet	Support Trellis
Block Specs	1 ha = 133m x 75m	1 ha = 133m x 75m	1 ha = 133m x 75m
Strands on trellis	18	11	3
No. Rows	39	39	34
Row length in Meters	75	75	75
Anchor poles (Treated & SABS Std)	3.6m (100:125mm)CL4	3.6m (100:125mm)CL4	4.2m (100:125mm)CL4
No. Anchor poles/ha	78	78	68
Pole price	R206,22	R206,22	R248,90
<b>Cost of Poles (excl Vat)</b>	<b>R16 085,16</b>	<b>R16 085,16</b>	<b>R16 925,20</b>
In-row poles (Treated & SABS Std)	3.2m (50:75mm)CL2	3.2m (50:75mm)CL2	3.6m (80:100mm)CL3
No. In-row poles/ha	156	195,4887218	170
In-Row Pole Price	R75,12	R75,12	R159,46
<b>Cost of Poles (excl Vat)</b>	<b>R11 718,72</b>	<b>R14 685,11</b>	<b>R27 108,20</b>
In-row Pole spacing	19	15	15
Poles per row	4	5,012531328	5
Strand wire - 2mm High Tensial Full Galv	52 650	32 256	7 650
<b>Cost of HT 2mm wire</b>	<b>R29 812,94</b>	<b>R18 264,68</b>	<b>R4 331,79</b>
Anchor wire - 4mm Mild Steal Full Galv	1 560	1 560	544
<b>Cost of MS 4mm wire</b>	<b>R4 176,18</b>	<b>R4 176,18</b>	<b>R1 456,31</b>
Length of anchor wire in meters	20	20	8
Anchors/ha- Concrete block, 600x600x600mm	156	156	136
U' nails - 25mm (256 nails/1kg)	4 212	3 008	714
No. Kg's U' nails - 25mm (256 nails/1kg)	16	12	3
<b>Cost of U'nails</b>	<b>R960,36</b>	<b>R685,93</b>	<b>R162,80</b>
Top trellis Pole	3.6m(1.8m) split pole or 12mm rod		
Cost of Top Trellis pole	R6 738,26		
<b>Total Trellising Cost:</b>	<b>R69 491,63</b>	<b>R53 897,06</b>	<b>R49 984,30</b>

\*Per hectare

\*Palmet structure: 11 strand on trellis and in-row pole every 15 meters

**DRAPE NET COSTS PER HA**

ITEMS	POME FRUIT	APRICOTS & NECTARINES	PLUMS	CHERRIES	PRUNE
PLANT SPACING	4M X 1,5M	4M X 2M	3,28M X 2M	4,5M X 1,5M	2,5M X 4,5M
NUMBER OF TREES PER HECTARE	1 667	1 250	1 524	1 481	889
METER SQUARE	6	8	7	7	11
NUMBER OF ROWS PER 1HA (100M/4M ROW TO ROW LENGTH)	25	25	30	22	40
COST OF NET PER ROW	R5 510	R5 878	R5 878	R5 878	R9 184
COST OF NET PER 1HA	R137 755	R146 939	R179 193	R130 612	R367 347
EMPLOYEE COSTS	R5 200	R5 200	R5 200	R5 200	R5 200
<b>TOTAL COSTS PER HECTARE</b>	<b>R142 955</b>	<b>R152 139</b>	<b>R184 393</b>	<b>R135 812</b>	<b>R372 547</b>

Additional info

*\*\*use white nets for red and bi-colour apples*

*\*\*Black nets for green apples*

*\*\*contractor fees is around R5200/ha to erect, take down and repair nets*

*\*\*with proper care each net should last 10 to 15 years*

*\*\*standard length of each net is 100 meters*

*\*\*note net prices differ from each supplier*

NETTING COSTS ON A PER HA BASIS

ASSUMPTIONS	Unit	Open-Close System	Flat Anti-hail	
TOTAL SURFACE	m2	10 000	10 000	
DISTANCE BETWEEN ROWS	Meter	4	4	
NUMBER OF ROWS	no	10	10	
TOTAL ROW LENGTH	Meter	2500	2 500	
NUMBER OF CROSS CONNECTIONS	No	4	4	
TOTAL CROSS CONNECTION LENGTH	No	897	897	
FRONT SIDES TOTAL LENGTH	No	75	75	
NET WIDTH	Meter	4.4	4.4	
DISTANCE BETWEEN TOP CLIPS	Meter	0.75	-	
DISTANCE BETWEEN OPEN-CLOSE CLIPS	Meter	1.3	-	
DISTANCE BETWEEN POSTS ALONG ROW	Meter	10.5	-	
NET STRUCTURE	SPECS	QTY	OPEN-CLOSE SYSTEM	FLAT ANTI-HAIL SYSTEM
<b>SUPPORT MATERIAL</b>			<b>RAND/HA</b>	<b>RAND/HA</b>
<b>POLES</b>				
PERIMETER POLES (4,8M - PINE- Class 5)	Class 5	47	R19 346	R19 346
INSIDE POLES (4,8M - PINE- Class 4)	Class 4	201	R68 069	R68 069
<b>TOTAL POLE COST</b>			<b>R87 415</b>	<b>R87 415</b>
<b>ANCHORAGES</b>				
CONCRETE PLATE	300mm	29	R1 993	R1 993
GALVANIZED POLES FOR ACHORING	AB-30	29	R2 295	R2 295
GALVANIZED STEEL ROPE: UPPER CONNECTION - 19 WIRES	7mm	220	R2 949	R2 949
GALVANIZED STEEL ROPE: LOWER CONNECTION - 19 WIRES	7mm	190	R2 556	R2 556
CLAMP FOR WIRE	8mm	229	R1 211	R1 211
<b>TOTAL ANCHORAGE COST</b>			<b>R11 005</b>	<b>R11 005</b>
<b>STRUCTURAL WIRES</b>				
GALVANIZED STEEL ROPE: TRUSS CONNECTION - 19 WIRES	7mm	81	R1 081	R1 081
PLASTIC COATED ROPE: HEAD TRUSS	4-6mm	86	R1 034	R1 034
ZN-AL GALVANIZED WIRE COMAVIT PLUS	4mm - 4-5% elongation	266	R10 785	R10 785
GALVANIZED ROPE: TRANSVERSE CONNECTION - 19 WIRES	5mm	962	R6 791	R6 791
<b>TOTAL STRUCTURAL WIRE COSTS</b>			<b>R19 692</b>	<b>R19 692</b>
<b>NET &amp; OTHER ACCESSORIES</b>				
GREY ANTI HAIL NET	4,4m	11 440	R70 701	R70 701
CLAMP FOR TRANSVERSAL ROPE FIXING		18	R62	R62
CLAMP FOR TOP WIRE FIXING		38	R135	R135
CLAMP FOR GALVANIZED RING FIXING		19	R101	R101
CLAMP FOR HEADBOARD PLASTIC WIRE		19	R99	R99
ROPE BLOCK BAND: HEAD POSTS	M10	29	R1 135	R1 135
POLE COVER WITH FLAT NET KIT (DIAMETER)	160cm	19	R1 110	R1 110
POLE COVER WITH FLAT NET KIT (DIAMETER)	160cm	28	R1 622	R1 622
POLE COVER WITH FLAT NET KIT (DIAMETER)	130cm	201	R9 783	R9 783
OPEN-CLOSE NET CLOSE NET PLATE COMAVIT		1 923	R18 676	-
NET PLATE PLATE FOR LATERAL TENSIONING		48	R299	R299
GALVANISED S GALVANISED S HOOK		19	R101	R101
CLIP FOR FOR TOP WIRE FIXING		3 333	R10 006	-
GALVANIZED RING		19	R235	R235
NET BLOCK BAND: NET WRAPPING		1 099	R5 045	R5 045
<b>TOTAL NET AND ACCESSORY COSTS</b>			<b>R119 109</b>	<b>R90 427</b>
INSTALLATION FEE	PER HA		R98 800	R98 800
<b>TOTAL COST</b>			<b>R336 021</b>	<b>R307 339</b>

Notes:

\* Open-Close system would require platform for opening and closing and require additional capital layout.

\*Note that prices are influenced by block size, block shape, row width, soil conditions, pole type and spacing

\*All prices exclude VAT except for pine poles