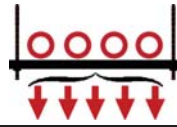


Plumbing Reference Table (Metric)

TS150	Kg / M	Aire	X-X Axis			Y-Y Axis		
	Kg	mm ²	I mm ⁴	S mm ³	r mm	I mm ⁴	S mm ³	r mm
TS150	1.420	182.277	3.965E+04	1695.625	14.750	5.130E+04	2485.993	16.777



Material: Pre-Galvanized steel ASTM-G-90 under control of ASTM-A653. Yield strength is 33 000psi and E is 29 (103) Ksi.
Method of manufacturing: Cold bending using a series of rolls according to AISI-S100-16 and CSA S136-16.
Material thickness: 18 gauge (0.049in / 1.27mm)

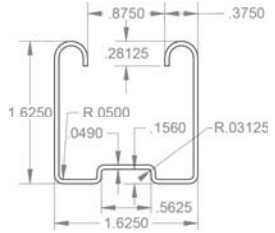
Table_1: Suspension at: 1.83M

Parameters	Measure	Diam. Nom.	Number of Allowed Pipes for TS150 Channel in Trapeze Formation													
			2	3	4	5	6	7	8	9	10	11	12	13	14	
Space Between Suspension :	1.83 M	25.40 mm	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	
Insulation or Protector :	0.00 mm	31.75 mm	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	N/A	
Space Between Pipes :	44.45 mm	38.10 mm	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	-	
Distance From Threaded Rods :	50.80 mm	50.80 mm	OK	OK	OK	OK	OK	OK	OK	OK	N/A	N/A	N/A	-	-	
Steel Pipe SCH 40 :	63.50 mm	63.50 mm	OK	OK	OK	OK	OK	OK	N/A	N/A	-	-	-	-	-	
Copper Pipe "L" Type :	76.20 mm	76.20 mm	OK	OK	OK	OK	N/A	N/A	-	-	-	-	-	-	-	
	101.60 mm	101.60 mm	OK	OK	OK	N/A	-	-	-	-	-	-	-	-	-	

Type of Pipe	Weight with Water		Total Weight in Kilogram (Kg) by Number of Allowed Pipes for TS150 Channel on its length (mm)																									
	Diam. Nom.	Kg/M	2		3		4		5		6		7		8		9		10		11		12		13		14	
Steel Pipe SCH 40	25.40 mm	3.05 Kg	11.2	215.9	16.7	295.3	22.3	374.7	27.9	454.0	33.5	533.4	39.1	612.8	44.6	692.2	50.2	771.5	55.8	850.9	61.4	930.3	67.0	1009.7	N/A	-	-	
	31.75 mm	4.36 Kg	15.9	235.0	23.9	323.9	31.9	412.8	39.9	501.7	47.8	590.6	55.8	679.5	63.8	768.4	71.8	857.3	79.7	946.2	N/A	-	-	-	-	-	-	
	38.10 mm	5.37 Kg	19.6	247.7	29.5	342.9	39.3	438.2	49.1	533.4	58.9	628.7	68.8	723.9	78.6	819.2	N/A	-	-	-	-	-	-	-	-	-	-	
	50.80 mm	7.63 Kg	27.9	266.7	41.9	371.5	55.8	476.3	69.8	581.0	83.8	685.8	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	
	63.50 mm	11.74 Kg	42.9	292.1	64.4	409.6	85.9	527.1	107.4	644.5	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	76.20 mm	16.10 Kg	58.9	323.9	88.3	457.2	117.8	590.6	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	101.60 mm	24.41 Kg	89.3	374.7	133.9	533.4	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper Pipe "L" Type	25.40 mm	1.51 Kg	5.5	203.2	8.2	276.2	11.0	349.3	13.7	422.3	16.5	495.3	19.2	568.3	22.0	641.4	24.7	714.4	27.5	787.4	30.2	860.4	33.0	933.5	35.7	1006.5	38.5	1079.5
	31.75 mm	2.13 Kg	7.8	215.9	11.7	295.3	15.6	374.7	19.5	454.0	23.4	533.4	27.2	612.8	31.1	692.2	35.0	771.5	38.9	850.9	42.8	930.3	46.7	1009.7	50.6	1089.0	N/A	-
	38.10 mm	2.84 Kg	10.4	228.6	15.6	314.3	20.8	400.1	26.0	485.8	31.2	571.5	36.4	657.2	41.6	743.0	46.8	828.7	52.0	914.4	57.2	1000.1	62.4	1085.9	N/A	-	-	
	50.80 mm	4.60 Kg	16.8	254.0	25.2	352.4	33.6	450.9	42.0	549.3	50.5	647.7	58.9	746.1	67.3	844.6	75.7	943.0	N/A	-	N/A	-	N/A	-	-	-	-	
	63.50 mm	6.77 Kg	24.8	279.4	37.1	390.5	49.5	501.7	61.9	612.8	74.3	723.9	86.7	835.0	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-	
	76.20 mm	9.35 Kg	34.2	304.8	51.3	428.6	68.4	552.5	85.5	676.3	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	101.60 mm	15.73 Kg	57.5	355.6	86.3	504.8	115.1	654.1	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TS150

X-X Axis	Y-Y Axis
c mm	c mm
23.386	20.638



Notes :

- Steel Pipe SCH 40.
- Copper Pipe "L" Type.
- Insulation was not considered.
- The weight of piping includes water.
- Does not consider weight of other components such as, but not limited to, valves and fittings. Adding components requires adding additional supports.
- The Contractor must ensure compliance with applicable codes and standards.
- Accordance with MS-SP-58 Art. 4.4. 'Sheet metal framing channel conforming to Metal Framing Standards Publications (MFMA-4) ...'
- Accordance with MFMA-4 Art. 2.6.2. 'For static loads, a minimum safety factor of three (3) is recommended. In addition, harmful distortion of a particular component or assembly should not occur at a load less than the maximum design load multiplied by 1.68.'

Table_2: Suspension at: 2.44M

Parameters:	Measure	Diam. Nom.	Number of Allowed Pipes for TS150 Channel in Trapeze Formation													
			2	3	4	5	6	7	8	9	10	11	12	13	14	
Space Between Suspension :	2.44 M	25.40 mm	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	
Insulation or Protector :	0.00 mm	31.75 mm	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	N/A	
Space Between Pipes :	1.75 mm	38.10 mm	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	N/A	N/A	-	
Distance From Threaded Rods :	2.00 mm	50.80 mm	OK	OK	OK	OK	OK	OK	OK	OK	N/A	N/A	N/A	-	-	
Steel Pipe SCH 40 :	63.50 mm	63.50 mm	OK	OK	OK	OK	OK	OK	N/A	N/A	-	-	-	-	-	
Copper Pipe "L" Type :	76.20 mm	76.20 mm	OK	OK	OK	OK	N/A	N/A	-	-	-	-	-	-	-	
	101.60 mm	101.60 mm	OK	OK	N/A	N/A	-	-	-	-	-	-	-	-	-	

Type of Pipe:	Weight with Water		Total de Kilogrammes (Kg) pour le Nombre de Tuyaux Permis sur Profilé TS150 sur sa longueur (mm)																									
	Diam. Nom.	Kg/M	2		3		4		5		6		7		8		9		10		11		12		13		14	
Steel Pipe SCH 40	25.40 mm	3.05 Kg	14.9	215.9	22.3	295.3	29.8	374.7	37.2	454.0	44.6	533.4	52.1	612.8	59.5	692.2	67.0	771.5	74.4	850.9	81.8	930.3	N/A	-	-	-	-	
	31.75 mm	4.36 Kg	21.3	235.0	31.9	323.9	42.6	412.8	53.2	501.7	63.9	590.6	74.5	679.5	85.1	768.4	N/A	-	N/A	-	N/A	-	-	-	-	-	-	
	38.10 mm	5.37 Kg	26.2	247.7	39.3	342.9	52.4	438.2	65.5	533.4	78.6	628.7	91.7	723.9	N/A	-	-	-	-	-	-	-	-	-	-	-	-	
	50.80 mm	7.63 Kg	37.2	266.7	55.8	371.5	74.5	476.3	93.1	581.0	111.7	685.8	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	63.50 mm	11.74 Kg	57.3	292.1	85.9	409.6	114.5	527.1	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	76.20 mm	16.10 Kg	78.5	323.9	117.8	457.2	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	101.60 mm	24.41 Kg	119.0	374.7	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper Pipe "L" Type	25.40 mm	1.51 Kg	7.3	203.2	11.0	276.2	14.7	349.3	18.4	422.3	22.0	495.3	25.7	568.3	29.4	641.4	33.1	714.4	36.7	787.4	40.4	860.4	44.1	933.5	47.8	1006.5	51.4	1079.5
	31.75 mm	2.13 Kg	10.4	215.9	15.6	295.3	20.7	374.7	25.9	454.0	31.1	533.4	36.3	612.8	41.5	692.2	46.7	771.5	51.8	850.9	57.0	930.3	62.2	1009.7	67.4	1089.0	N/A	-
	38.10 mm	2.84 Kg	13.9	228.6	20.8	314.3	27.7	400.1	34.7	485.8	41.6	571.5	48.5	657.2	55.5	743.0	62.4	828.7	69.3	914.4	76.3	1000.1	N/A	-	N/A	-	-	
	50.80 mm	4.60 Kg	22.4	254.0	33.6	352.4	44.9	450.9	56.1	549.3	67.3	647.7	78.5	746.1	89.7	844.6	N/A	-	N/A	-	N/A	-	-	-	-	-	-	
	63.50 mm	6.77 Kg	33.0	279.4	49.5	390.5	66.0	501.7	82.5	612.8	99.0	723.9	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	
	76.20 mm	9.35 Kg	45.6	304.8	68.4	428.6	91.2	552.5	114.0	676.3	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	101.60 mm	15.73 Kg	76.7	355.6	115.1	504.8	N/A	-	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	