

Westerman Companies

245 N. Broad Street

Bremen, Ohio 43107

Serving Industries Since 1909

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ISO 9001:2000 ASME Sect. VIII Div.I- U,UM,PP National Board R API 650
NRC 10CFR71 Subpart H and ANSI N14.1 Compliant

Design / Build to ANSI, API, AWWA, DOT, OSHA, UL Specifications

Vessels

Air Receivers
Blending / Mixing
Filtration
Fire Suppression
Hydro pneumatic
Odorant
Process

Separators

Horizontal
Vertical
"Mini"
High Pressure
Indirect Fired
Automated
Skid Mounted

Tanks

Solids Storage
Atmospheric
Chemical Storage
Expansion
Oil Storage
Petro Chemical
Water

*Diked, Double Walled, Insulated, Lined, Coated, Jacketed
Alloy Metals - Aluminum - Carbon Steel - Stainless Steel*

Containers, Piping, Manifolds, Ladders, Platforms, Railings

In House:

Engineering
AutoCAD 2000i
Pro/Engineer/2001
CODECALC
Pro/Mechanical (FEA)

Testing
Radiography
Ultrasonic
Hydrostatic
Dye Penetrant

Transportation
Straight-Tilt Bed
Semis-Flat & Drop deck
Over Sized
Permit

Other Westerman Company Divisions

ALTEN ENGINEERING - Industrial Gears & Reducers
Controls Division - SCADA , Telemetry , Process
Wooster Tool Division - *Oilfield Production Equipment*



SPECS - CONVERSIONS - FACTORS

TANK VOLUME / LIN.FT.

I.D.	CU FT	GAL / FT
14"	1.1	8.00
20"	2.2	16.30
24"	3.1	23.50
36"	7.1	52.90
48"	12.6	94.00
60"	19.6	146.90
72"	28.3	211.50
84"	33.2	287.90
96"	50.3	376.00
108"	63.6	475.90
120"	75.8	587.50

WIND CHILL (deg F)

TEMP(F)	WIND	Wind Chill
40	10 mph	28
40	20 mph	18
30	10 mph	16
30	20 mph	4
20	10 mph	4
20	20 mph	-10
10	10 mph	-9
10	20 mph	-25
0	10 mph	-21
0	20 mph	-39
0	30 mph	-48

WEIGHTS

MATERIAL	# / Cu Ft
Aluminum	165
Asphalt	45
Beans(soy)	45
Bricks	120
Bronze	509
Cardboard	43
Cement	141
Coal	72
Cork	14
Dirt (dry)	95
Fish (scrap)	46
Glass	161
Gold	1204
Hickory	53
Ice	57
Lead	708
Mud	119
Oil (crude)	58
Paper	75
Pine (white)	26
Potatoes	48
Rubber	95
Salt (fine)	75
Sand (wet)	130
Slate	104
Snow	10
Soap (solid)	51
Steel	490
Tar	72
Tungsten	1224
Water	62
Wool	82

PIPE VOLUME / LIN.FT.

O.D.	CU FT	GAL / FT
1" (1.25")	0.00587	0.0398
2" (2.375")	0.02171	0.1624
3" (3.500")	0.05134	0.3840
4" (4.500")	0.08971	0.6578
6" (6.625")	0.19952	1.4931
8" (8.625")	0.34896	2.6213

HEAT INDEX

TEMP(F)	HUMID. INDEX (F)	
75	90	79
80	90	88
85	90	102
90	90	122
95	90	135
100	90	141

STEEL WEIGHT / SQ FT

SIZE	CARBON	STAINLESS
3/16"	7.65 #	8.57 #
1/4"	10.2 #	11.16 #
3/8"	15.3 #	16.50 #
1/2"	20.4 #	21.66 #
5/8"	25.5 #	26.83 #
3/4"	30.6 #	32.12 #
7/8"	35.7 #	37.29 #
1"	40.8 #	42.67 #
1 1/4"	51.0 #	53.0 #

CONVERSIONS

FROM	MULT BY	TO GET
Acres	43560	Sq. Feet
Barrels	42	Gallons
Bars	14.504	PSI
Board Ft.	0.8333	Cubic Ft.
BTU / hr.	0.0003	Kilowatts
Bushels	8	Gallons
Candle pwr	12.5	Lumins
Cords	128	Cu. Feet
Cu.Ft.	7.4805	Gallons
Cubit	1.5	Feet
Fathoms	6	Feet
Kilometers	3208	Feet
Kilowatts	1.34	Horsepower
Knots	1.1508	Miles per hour
League	3.4523	Miles
Liters	0.2642	Gallons
Meters	3.2808	Feet
Mile	5280	Feet
Mils	0.001	Inches

FROM	MULT BY	TO GET
Paces	2.5	Feet
Peck	2	Gallon
Pennywgt.	0.00417	Pounds
Ream	480	Sheets
Rod	16.5	Feet
Stone	14	Pounds
Township	23040	Acres
Yards	0.9144	Meters

Degrees C X 1.8 + 32 = Degree F Degrees F - 32 divided by 1.8 = Degree C

****NOTE*** All information listed is approximate and generic. Not to be used for critical service or calculations.