APPENDIX

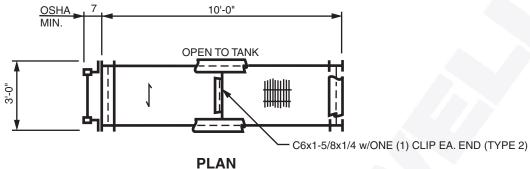
Table of Contents

Integrated Design Example:	
10% Sulfuric Acid Tank Platform	A-2
Recommended Minimum Live Loads	A-6
Special Loads	A-8
Weights and Measures:	
International System of Units	A-10
United States System	A-11
SI Conversion Factors	A-12
Bracing Formulas	A-14
Decimals of an Inch	A-15
Decimals of a Foot	A-16

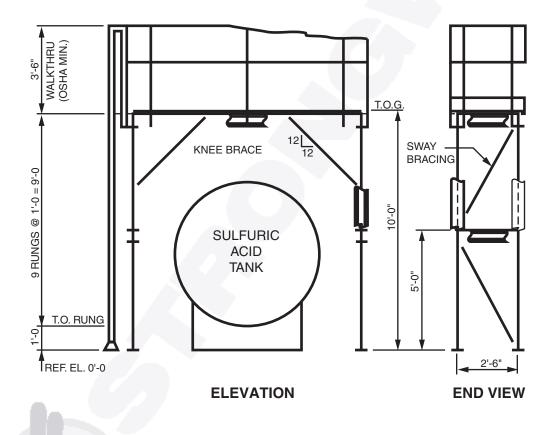
APPENDIX



INTEGRATED DESIGN EXAMPLE 10% SULFURIC ACID TANK PLATFORM







DESIGN CRITERIA

OSHA for Safety - fire retardant Platform Live Load = 100 psf (Work Platform) Indoor Application (75° F) Δ Max - grating ~ 1/4"; Δ Max - structurals ~ L/180 All connections to be bolted and epoxied

INTEGRATED DESIGN EXAMPLE

10% SULFURIC ACID TANK PLATFORM

DESIGN GRATING

According to Section 23 - CORROSION RESISTANCE GUIDE of the Strongwell Design Manual, standard fire retardant grating is acceptable. (10% Sulfuric to 150°F)

Assume W-6 members, grating clear span is 36"-6"=30" (grating spans short direction)

1" DURADEK® I-6000 will support 160 PSF on 30" span deflect only 3/32"

USE 1" DURADEK I-6000 (WT = 2.4 PSF)

PLATFORM BEAMS (10' SPAN)

LL = (100 PSF) $\frac{3}{2}$ = 150 lbs./LF

 $DL = (2.4 \text{ PSF}) \frac{3'}{2} + 3.19 \text{ lbs./1} + 5.5 \text{ lbs./1} = 12.29 \text{ ASSUME 15 lbs./LF}$

Therefore: Total Beam Load = 150 + 15 = 165 lbs./LF; R = $\frac{165 \times 10}{2} = \frac{825}{2}$ lbs.

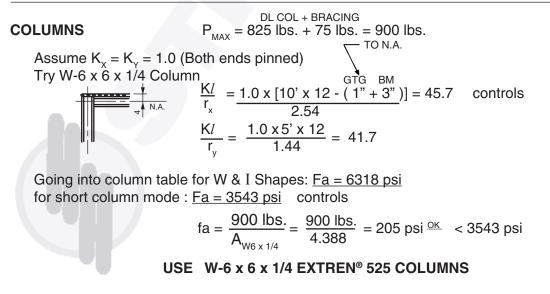
Referencing STRONGWELL Corrosion Resistance Guide, EXTREN® 525 series will be used.

From the **EXTREN**[®] allowable load tables, a W-6 x 6 x 1/4 will support 171 lbs./FT @ Δ = L/180 when the beam is <u>laterally supported</u>.

Our beam is laterally braced @ $L_{II} = 5$

As can be seen in the <u>laterally unsupported</u> column of the table, W (unbraced) @ 10'-0 = 158 lbs./LF < 165 lbs./LF actual @ 5'-0 = OK / by inspection

USE W-6 x 6 x 1/4 w/ type 2 connections



(NOTE: Although W-4 x 1/4 or I-6 x 3 x 1/4 is adequate, connections will be easier with a W-6.)

INTEGRATED DESIGN EXAMPLE

10% SULFURIC ACID TANK PLATFORM

DESIGN SWAY BRACING

Since wind is not a problem, design sway bracing to provide stiffening of the frame in the transverse direction.

Assume sway bracing to resist 2% of column loads

= 2% x 900 lbs. x 2 COLS . 36 lbs. (minimal)

For ease of connection, <u>TRYJL $2 \times 2 \times 1/4$ </u>

L.
$$\sqrt{2.5^2 + 5^2} = 5.59' = 67"$$
 (@ 63.4°)

From Elements of Section,

 $r_x = .609$; $R_y = .95$

 $Kl/r_x = 67/.609 = 110$ $F_a = 1167$ psi

Axial Load in Brace

$$f_a = \frac{80 \text{ lbs.}}{1.84} < 1167 \text{ psi } \frac{\text{ok}}{1}$$

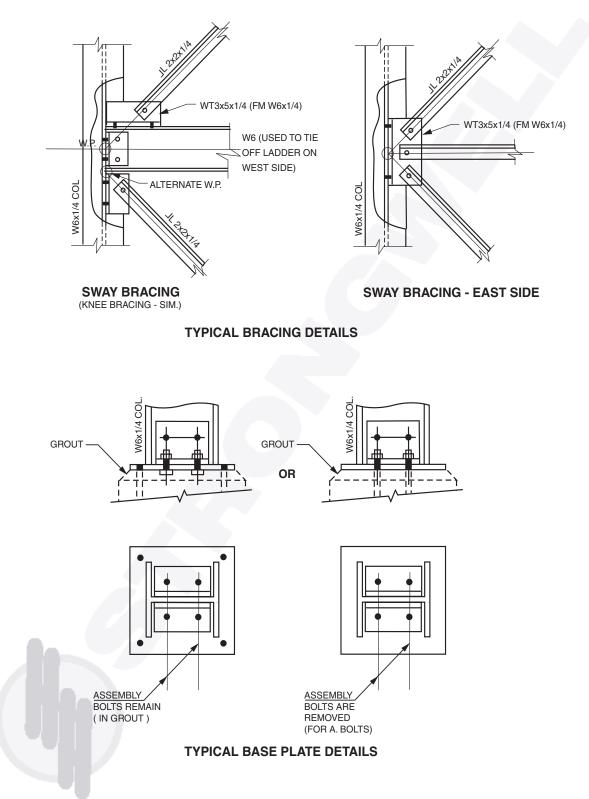
USE JL2 x 2 x 1/4 Sway Bracing

By Inspection,

USE JL2 x 2 x 1/4 Knee Braces Also

INTEGRATED DESIGN EXAMPLE

10% SULFURIC ACID TANK PLATFORM



RECOMMENDED MINIMUM LIVE LOADS

The live loads listed below are typical of minimums given in the Uniform Building Code and similar model codes for general construction. In the absence of local laws, building codes, or other project specifications, these loads may be used for the engineering design. Otherwise, check applicable requirements. **UNIFORM LOAD** is given in pounds per square foot (psf) and **CONCENTRATED LOAD** is given in pounds.

A live load is defined as the weight resulting from furniture, persons, or other movable and varying loads that are not a permanent part of the structure. **NOTE:** Wind, snow, earthquake, impact, dead and other loads are not considered a part of the live load of a structure.

	USE OR C	CCUPANCY	UNIFORM	CONCENTRATED
	CATEGORY	DESCRIPTION	LOAD ①	LOAD
1.	Access floor systems	Office Computer use	50 100	2000© 2000©
	Armories		150	0
3.	Assembly areas and balconies therewith	Fixed seating areas auditoriums and Movable seat other areas Stage areas and enclosed platforms	50 ing and 100 125	0 0 0
4.	Cornices, marquees and residential balconies		60	0
5.	Exit facilities ④		100	05
6.	Garages	General storage and/or repair Private or pleasure-type motor vehicle storage	100 50	© ⑦
7	Hospitals	Wards and rooms	40	1000@
8.	Libraries	Reading rooms Stack rooms	60 125	1000@ 1500@
9.	Manufacturing	Light Heavy	75 125	2000@ 3000@
10.	Offices		50	2000 ②
11.	Printing plants	Press rooms Composing and linotype rooms	150 100	2500② 2000②
12.	Residence®		40	0©
	Rest rooms Reviewing stands, grandstands and bleachers		100	0
15.	Roof deck	Same as area served or for the type of occupancy accommodated		
16.	Schools	Classrooms	40	1000©
17.	Sidewalks and driveways	Public access	250	6
18.	Stairways ⁵	Stringer Design Stairtread	100	300
19.	Storage	Light Heavy	125 250	
20.	Stores	Retail Wholesale	75 100	2000② 3000

RECOMMENDED MINIMUM UNIFORM AND CONCENTRATED LOADS

USE OR C	UNIFORM	CONCENTRATED	
CATEGORY	DESCRIPTION	LOAD1	LOAD
1. Roof Loads [®]	Rise 4" or less per foot	20	
	Rise 4" to 12" per foot	16	
	Rise over 12" per foot	12	

RECOMMENDED MINIMUM UNIFORM ROOF LIVE LOADS

FOOTNOTES FOR TABLE OF RECOMMENDED MINIMUM UNIFORM & CONCENTRATED LOADS

- In some cases, the Uniform Building Code allows for a reduction of the uniform live load for members supporting 150 sq. ft. or more area. Consult the UBC or other applicable codes for any reductions that may be taken.
- ② "Concentrated loads shall be placed upon any space 2-1/2 feet square, wherever this load upon an otherwise unloaded floor would produce stresses greater than those caused by the uniform load required thereof." UBC - 85, section 2304 (c).
- ③ Assembly areas include such occupancies as dance halls, drill rooms, gymnasiums, playgrounds, plazas, terraces and similar occupancies which are generally accessible to the public.
- Exit facilities shall include such uses as corridors serving an occupant load of 10 or more persons, exterior exit balconies, stairways, fire escapes, and similar uses.
- Individual stair treads shall be designed to support a 300 pound concentrated load placed in a position which would cause maximum stress. Stair stringers may be designed for the uniform load set forth in the table.
- ⑥ Provisions shall be made in areas where vehicles are used or stored for concentrated loads consisting of two or more loads spaced 5 feet nominally on center without uniform live loads. Each load shall be 40% of the gross weight of the maximum size vehicle to be accommodated. The condition of concentrated or uniform live load producing the greater stress shall govern.
- Parking garages for the storage of private or pleasure-type motor vehicles with no repair or fueling shall have a floor system designed for a concentrated wheel load of not less than 2000 pounds without uniform live load. The condition of concentrated or uniform live load producing the greatest stress shall govern.
- 8 Residential occupancies include private dwellings, apartments and hotel guest rooms.
- In the second second
- Roof loads are in pounds per square foot of horizontal projection.

SPECIAL LOADS (1)

		USE	VERTICAL LOAD	LATERAL LOAD		
	CATEGORY	DESCRIPTION	(Pounds Per Square Foot Unless Otherwise Noted)			
1.	Construction, public access at site (live load)	Walkway, min. 4 ft. wide Canopy, 8 ft. clear height	150 150			
2.	Grandstands, reviewing stands and bleachers (live load)	Seats and footboards	120@	See Footnote 3		
3.	Stage accessories, live load	Gridirons and fly galleries Loft block wells Head block wells and sheave beams	75 250 250	250 250		
4.	Ceiling framing	Over Stages All uses except over stages	20 10⑤			
5.	Partitions and interior walls	Permanent and temporary Exceeding 6 ft. in height	All live loads on them	5		
6.	Elevator and dumb- waiters (dead and live load)		2 x total loads 6			
7.	Mechanical and electrical equipment (dead load)		Total loads			
8.	Cranes (dead and live load)	Total load including impact increase	1.25 x Total load⊘	0.10 x Total load®		
9.	Balcony railings, guard rails and handrails (U.B.C.)	Exit facilities serving an occupant load greater than 50 Other		50⑨ 20⑨		
10.	Balcony railings, guard rails and (OSHA)		in any dire	lbs. applied ction at any top rail		
11.	Storage racks	Over 8 feet high	Total loads®	In Earthquake zones, see U.B.C.		
12.	Walkways & Platforms Industrial Applications®	Accessways Operating Platforms and Walkways	75 100			

① The tabulated loads are minimum loads. Where other vertical loads required by codes or by design would cause greater stresses, they shall be used.

② Pounds per lineal foot

^③ Lateral sway bracing loads of 24 pounds per foot parallel and 10 pounds per foot perpendicular to seat and footboards.

- ④ All loads are in pounds per lineal foot. Head block wells and sheave beams shall be designed for all loft block well loads tributary thereto. Sheave blocks shall be designed with a factor of safety of five.
- ⑤ Does not apply to ceilings which have sufficient total access from below, such that access is not required within the space above the ceiling. Does not apply to ceilings if the attic areas above the ceiling are not provided with access. This live load need not be considered acting simultaneously with other live loads imposed upon the ceiling framing or its supporting structure.
- Where Appendix Chapter 51 of the U.B.C. has been adopted, see reference standard cited therein for additional design requirements.
- The impact factors included are for cranes with steel wheels riding on steel rails. They may be modified if substantiating technical data acceptable to the building official is submitted. Live loads on crane support girders and their connections shall be taken as the maximum crane wheel loads. For pendant-operated traveling crane support girders and their connections, the impact factors shall be 1.10.
- This applies in the direction parallel to the runway rails (longitudinal). The factor for forces perpendicular to the rail is 0.20 x the transverse traveling loads (trolley, cab, hooks and lifted loads). Forces shall be applied at top of rail and may be distributed among rails of multiple rail cranes and shall be distributed with due regard for lateral stiffness of the structures supporting these rails.
- A load per lineal foot to be applied horizontally at right angles to the top rail.
- Wertical members of storage racks shall be protected from impact forces of operating equipment or racks shall be designed so that failure of one vertical member will not cause collapse of more than the bay or bays directly supported by that member.
- ⁽¹⁾ Valves for industrial walkways and platforms are commonly used by industry. Check with applicable project specifications.

WEIGHTS AND MEASURES

International System of Units (SI)^a (Metric Practice)

BASE UNITS			SUPPLEMENTARY UNITS						
Quantity length mass time electric current thermodynamic temperature amount of substance luminous intensity	metre kilogram second ampere	<u>Symbol</u> m kg s A K mol cd	Quantity plane angle solid angle	<u>Unit</u> radian steradian	<u>Symbol</u> rad sr				

DERIVED UNITS (WITH SPECIAL NAMES)

Quantity	` Unit	Symbol	Formula
force	newton	N	kg-m/s²
pressure, stress energy, work,	pascal	PA	N/m ²
quantity of heat	joule	J	N-m
power	watt	W	J/s

DERIVED UNITS (WITHOUT SPECIAL NAMES)

Unit	Formula
square metre	m²
cubic metre	m³
metre per second	m/S
metre per second squared	m/s²
cubic metre per kilogram	m³/kg
kilogram per cubic metre	kg/m³
	square metre cubic metre

SI PREFIXES

Multiplication Fac	tor		Prefix	Symbol
1 000 000 000 000 000 000	=	10 ¹⁸	exa	Ē
1 000 000 000 000 000	=	10 ¹⁵	peta	Р
1 000 000 000 000	=	10 ¹²	tera	Т
1 000 000 000	=	10 ⁹	giga	G
1 000 000	=	10 ⁶	mega	М
1 000	=	10 ³	kilo	k
100	-	10 ²	hecto ^b	h
10	=	10 ¹	deka ^b	da
0.1	=	10 ⁻¹	decib	d
0.01	=	10 ⁻²	centi ^b	С
0.001	=	10 ⁻³	milli	m
0.000 001	=	10 ⁻⁶	micro	μ
0.000 000 001	=	10 ⁻⁹	nano	n
0.000 000 000 001	=	10 ⁻¹²	pico	р
0.000 000 000 000 001	=	10 ⁻¹⁵	femto	f
0.000 000 000 000 000 001	=	10 ⁻¹⁸	atto	а

a Refer to ASTM E380-79 for more complete information on SI.

b Use is not recommended.

WEIGHTS AND MEASURES

United States System

LINEAR MEASURE

Inches	Feet		Yards		Rods		Furlongs		Miles
1.0 =	.0833	.08333=		.02778 =		.0050505 =			.00001578
12.0 =	1.0	=	.333	33 =	.0606	6061 =	.00151515	=	.00018939
36.0 =	3.0	=	1.0	=	.1818	8182 =	.00454545) =	.00056818
198.0 =	16.5	=	5.5	=	1.0	=	.025		.003125
7920.0 =	660.0	=	220.0	=	40.0	=	1.0		.125
63360.0 =	5280.0	=	1760.0	=	320.0	=	8.0	=	1.0

SQUARE AND LAND MEASURE

Sq. Inches	s Square	Feet	Square Yards		Sq. Roc	ls	Acres		Sq. Miles
1.0 =	.0069	944 =	.00077	72					-
144.0 =	1.0	=	.1111	11					
1296.0 =	9.0	=	1.0	=	.0330	6 =	.000207		
39204.0 =	272.25	=	30.25	=	1.0	=	.00625	=	.0000098
	43560.0	=	4840.0	=	160.0		1.0	=	.00015625
			3097600.0	=	102400.0	=	640.0	=	1.0

AVOIRDUPOIS WEIGHTS

Grains		Drams		Ounces		Pounds		Tons
1.0	=	.0365	57 =	.002286	=	.000143	=	.0000000714
27.34375	=	1.0	=	.0625	=	.003906	=	.00000195
437.5	=	16.0	=	1.0	=	.0625	=	.00003125
7000.0	=	256.0	=	16.0	=	1.0	=	.0005
1400000.0	=	512000.0	=	32000.0	=	2000.0	=	1.0

DRY MEASURE

Pints	Quar	ts	Pecks		Cubic	: Feet	•	Bus	<u>hels</u>		
1.0		=	.5	=	.0625	=	.01945	=	.01563		
2.0		=	1.0	=	.125	=	.03891	=	.03125		
16.0		=	8.0	=	1.0	=	.31112	=	.25		
51.426	27	=	25.71314	=	3.21414	=	1.0	=	.80354		
64.0		-	32.0	=	4.0	=	1.2445	=	1.0		
LIQUID MEASURE											

LIQUID MEASURE

Gills	Pints	Quarts	U.S. Gallons	Cubic Feet
1.0 =	.25 =	.125 =	.03125 =	.00418
4.0 =	1.0 =	.5 =	.125 =	.01671
8.0 =	2.0 =	1.0 =	.250 =	.03342
32.0 =	8.0 =	4.0 =	1.0 =	.1337
			7.48052 =	1.0

SI CONVERSION FACTORS^a

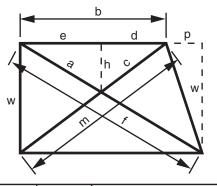
Quantity	Multiply	by		to obtain	
Length	Inch Foot	^b 25.400 ^b 0.304 800		Millimetre Metre	mm
	Yard	^b 0.914 400		Metre	m
	Mile (U.S. Statute)	1.609 347		Kilometre	m km
	wille (0.5. Statute)	1.009 347		Kilometre	KIII
	Millimetre	39.370 079	x 10 ⁻³	Inch	in
	Metre	3.280 840		Foot	ft
	Metre	1.093 613		Yard	yd
	Kilometre	0.621 370		Mile	mi
Area	Square inch	^b 0.645 160	x 10 ³	Square millimetre	mm ²
	Square foot	^b 0.092 903		Square metre	m²
	Square yard	0.836 127		Square metre	m ²
	Square mile (U.S. Statute)	2.589 998		Square kilometre	km ²
	Acre	4.046 873	x 10 ³	Square metre	m ²
	Acre	0.404 687		Hectare	
	Square millimetre	1.550 003	x 10 ⁻³	Square inch	in²
	Square metre	10.763 910	X 10	Square foot	ft ²
	Square metre	1.195 990		Square yard	yd ²
	Square kilometre	0.386 101		Square mile	mi ²
	Square metre		x 10 ⁻³	Acre	
	Hectare	2.471 044	XIU	Acre	
Volume	Cubic inch	[▶] 16.387 06	x 10³	Cubic millimetre	mm³
Volume	Cubic foot	28.316 85	x 10 ⁻³	Cubic metre	m ³
	Cubic yard	0.764 555	X IU	Cubic metre	m ³
	Gallon (U.S. liquid)	3.785 412		Litre	
	Quart (U.S. liquid)	0.946 353		Litre	, I
	Quikia millimatra	C1 000 750	× 10-6	Qubic inch	i3
	Cubic millimetre	61.023 759	x 10 ⁻⁶	Cubic inch Cubic foot	in ³
	Cubic metre	35.314 662			ft ³
	Cubic metre	1.307 951		Cubic yard	yd ³
	Litre	0.264 172		Gallon (U.S. liquid)	gal
	Litre	1.056 688		Quart (U.S. liquid)	qt
Mass	Ounce (avoirdupois)	28.349 52		Gram	g
	Pound (avoirdupois)	0.453 592		Kilogram	kg
	Short ton	0.907 185	x 10 ³	Kilogram	kg
	Gram	35.273 966	x 10 ⁻³	Ounce (avoirdupois)oz av
	Kilogram	2.204 622		Pound (avoirdupois)	
	Kilogram	1.102 311	x 10 ⁻³	Short ton	lb av
^a Refer to A	STM E380-79 for more comple	ete information o	n SI.	1	
	exact value.				

Reprinted with permission of American Insitute of Steel Construction

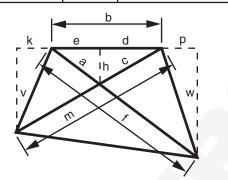
SI CONVERSION FACTORS^a

Quantity	Multiply	by	to obtain
Force	ounce-force	0.278 014	newton N
	pound-force	4.448 222	newton N
	newton	3.596 942	ounce-force
	newton	0.224 809	pound-force lbf
Bending	pound-force-inch	0.112 985	newton-metre N-m
Moment	pound-force-foot	1.355 818	newton-metre N-m
	newton-metre	8.850 748	pound-force-inch lbf-in
	newton-metre	0.737 562	pound-force-foot lbf-ft
Pressure	pound-force per square inch	6.894 757	kilopascal kPa
Stress	foot of water (39.2 F)	2.988 98	kilopascal kPa
	inch of mercury (32 F)	3.386 38	kilopascal kPa
	kilopascal	0.145 038	pound-force per lbf/in ² square inch
	kilopascal	0.334 562	foot of water (39.2 F)
	kilopascal	0.295 301	inch of mercury (32 F)
Energy,	foot-pound-force	1.355 818	joule J
Work,	° British thermal unit	1.055 056 x 10 ³	joule J
Heat	° calorie	^b 4.186 800	joule J
	kilowatt hour	^b 3.600 000 x 10 ⁶	joule J
	joule	0.737 562	foot-pound-force ft-lbf
	joule	0.947 817 x 10 ⁻³	^c British thermal unit BTU
	joule	0.238 846	° calorie
	joule	0.277 778 x 10 ⁻⁶	kilowatt hour kW-h
Power	foot-pound-force/second	1.355 818	watt W
	° British thermal units per hour	0.293 071	watt W
	horsepower (550 ft. lb f/s)	0.745 700	kilowatt KW
	watt	0.737 562	ft. lb force/second ft-lbf/s
	watt	3.412 141	° British thermal unitBTU/r per hour
	kilowatt	1.341 022	horsepower hp (550 ftlbf/s)
Angle	degree	17.453 29 x 10 ⁻³	radian rad
T	radian	57.295 788	degree
Temper-	degree Fahrenheit	t°C=(t°F-32)/1.8	degree Celsius
ature	degree Celsius	tºF= 1.8 x tºC+32	degree Fahrenheit
Indicates	ASTM E380-79 for more complet s exact value. onal Table.	e information on SI.	

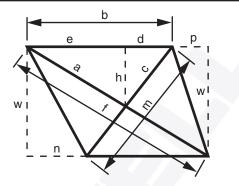
BRACING FORMULAS



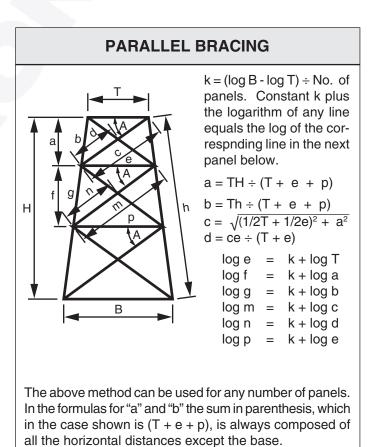
Given	To Find	Formula
bpw bw bp	f m d	$ \sqrt{\frac{(b+p)^{2} + w^{2}}{\sqrt{b^{2} + w^{2}}}} b^{2} \div (2b + p) $
bp	е	b (b + p) ÷ (2b + p)
bfp	а	bf ÷ (2b + p)
bmp	С	bm ÷ (2b + p)
bpw	h	bw ÷ (2b + p)
afw	h	aw ÷ f
cmw	h	cw ÷ m



Given	To Find	Formula
bpw	f	$\sqrt{(b + p)^2 + w^2}$
bkv	m	$\sqrt{(b + k)^2 + v^2}$
bkpvw	d	$bw (b + k) \div [v(b + p) + w(b + k)]$
bkpvw	е	$bv(b + p) \div [v(b + p)+$ w(b + k)]
bfkpvw	а	fbv ÷ [v(b + p) + w(b + k)]
bkmpvw	С	bmw ÷ [v(b + p) + w(b + k)]
bkpvw	h	$bvw \div [v(b + p) + w(b + k)]$
afw	h	aw ÷ f
cmv	h	cv ÷ m



Given	To Find	Formula
		111 20 0
bpw	T .	$\sqrt{(b + p)^2 + w^2}$
bnw	m	$\sqrt{(b-n)^2 + w^2}$
bnp	d	$\dot{b}(b-n) \div (2b + p - n)$
bnp	е	$b (b + p) \div (2b + p - n)$
bfnp	а	bf ÷ (2b + p − n)
bmnp	С	bm ÷ (2b + p – n)
bnpw	h	bw ÷ (2b + p − n)
afw	h	aw ÷ f
cmw	h	cw ÷ m



DECIMALS OF AN INCH

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	For Each 64th of an inch With Millimeter Equivalents								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Il Millimeters (Approx.)								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13.494								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15.081								
7/32 14 .21875 5.556 23/32 46 .71875 15 .234375 5.953 47 .73437 1/4 16 .250 6.350 3/4 48 .750 17 .265625 6.747 49 .76562 9/32 18 .28125 7.144 25/32 50 .78125 19 .296875 7.541 51 .79687 5/16 20 .3125 7.938 13/16 52 .8125	16.669								
9/32 18 .28125 7.144 25/32 50 .78125 19 .296875 7.541 51 .79687 5/16 20 .3125 7.938 13/16 52 .8125	18.256								
	19.844								
21.3281258.33453.8281211/3222.343758.73127/3254.8437523.3593759.12855.859373/824.3759.5257/856.875	21.431								
25.3906259.92257.8906213/3226.4062510.31929/3258.9062527.42187510.71659.921877/1628.437511.11315/1660.9375	23.019								
29 .453125 11.509 61 .95312 15/32 30 .46875 11.906 31/32 62 .96875 31 .484375 12.303 63 .98437 1/2 32 .500 12.700 1 64 1.000	24.606								

DECIMALS OF A FOOT

For Each 32nd of an inch							
Inch	0	1	2	3	4	5	
0	0	.0833	.1667	.2500	.3333	.4167	
1/32	.0026	.0859	.1693	.2526	.3359	.4193	
1/16	.0052	.0885	.1719	.2552	.3385	.4219	
3/32	.0078	.0911	.1745	.2578	.3411	.4245	
1/8	.0104	.0938	.1771	.2604	.3438	.4271	
5/32	.0130	.0964	.1797	.2630	.3464	.4297	
3/16	.0156	.0990	.1823	.2656	.3490	.4323	
7/32	.0182	.1016	.1849	.2682	.3516	.4349	
1/4	.0208	.1042	.1875	.2708	.3542	.4375	
9/32	.0234	.1068	.1901	.2734	.3568	.4401	
5/16	.0260	.1094	.1927	.2760	.3594	.4427	
11/32	.0286	.1120	.1953	.2786	.3620	.4453	
3/8	.0313	.1146	.1979	.2812	.3646	.4479	
13/32	.0339	.1172	.2005	.2839	.3672	.4505	
1/17	.0365	.1198	.2031	.2865	.3698	.4531	
15/32	0391	.1224	.2057	.2891	.3724	.4557	
1/2	.0417	.1250	.2083	.2917	.3750	.4583	
17/32	.0443	.1276	.2109	.2943	.3776	.4609	
9/16	.0469	.1302	.2135	.2969	.3802	.4635	
19/32	.0495	.1328	.2161	.2995	.3828	.4661	
5/8	.0521	.1354	.2188	.3021	.3854	.4688	
21/32	.0547	.1380	.2214	.3047	.3880	.4714	
11/16	.0573	.1406	.2240	.3073	.3906	.4740	
23/32	.0599	.1432	.2266	.3099	.3932	.4766	
3/4	.0625	.1458	.2292	.3125	.3958	.4792	
25/32	.0651	.1484	.2318	.3151	.3984	.4818	
13/16	.0677	.1510	.2344	.3177	.4010	.4844	
27/32	.0703	.1536	.2370	.3203	.4036	.4870	
. 7/8	.0729	.1563	.2396	.3229	.4063	.4896	
29/32	.0755	.1589	.2422	.3255	.4089	.4922	
15/16	.0781	.1615	.2448	.3281	.4115	.4948	
31/32	.0807	.1641	.2474	.3307	.4141	.4974	

DECIMALS OF A FOOT

For Each 32nd of an inch							
Inch	6	7	8	9	10	11	
0	.5000	.5833	.6667	.7500	.8333	.9167	
1/32	.5026	.5859	.6693	.7526	.8359	.9193	
1/16	.5052	.5885	.6719	.7552	.8385	.9219	
3/32	.5078	.5911	.6745	.7578	.8411	.9245	
1/8	.5104	.5938	.6771	.7604	.8438	.9271	
5/32	.5130	.5964	.6797	.7630	.8464	.9297	
3/16	.5156	.5990	.6823	.7656	.8490	.9323	
7/32	.5182	.6016	.6849	.7682	.8516	.9349	
1/4	.5208	.6042	.6875	.7708	.8542	.9375	
9/32	.5234	.6068	.6901	.7734	.8568	.9401	
5/16	.5260	.6094	.6927	.7760	.8594	.9427	
11/32	.5286	.6120	.6953	.7786	.8620	.9453	
3/8	.5313	.6146	.6979	7813	.8646	.9479	
13/32	.5339	.6172	.7005	.7839	.8672	.9505	
7/16	.5365	.6198	.7031	.7865	.8698	.9531	
15/32	.5391	.6224	.7057	.7891	.8724	.9557	
1/2	.5417	.6250	.7083	.7917	.8750	.9583	
17/32	.5443	.6276	.7109	.7943	.8776	.9609	
9/16	.5469	.6302	.7135	.7969	.8802	.9635	
19/32	.5495	.6328	.7161	.7995	.8828	.9661	
5/8	.5521	.6354	.7188	.8021	.8854	.9688	
21/32	.5547	.6380	.7214	.8047	.8880	.9714	
11/16	.5573	.6406	.7240	.8073	.8906	.9740	
23/32	.5599	.6432	.7266	.8099	.8932	.9766	
3/4	.5625	.6458	.7292	.8125	.8958	.9792	
25/32	.5651	.6484	.7318	.8151	.8984	.9818	
13/16	.5677	.6510	.7344	.8177	.9010	.9844	
27/32	.5703	.6536	.7370	.8203	.9036	.9870	
. 7/8	.5729	.6563	.7396	.8229	.9063	.9896	
29/32	.5755	.6589	.7422	.8255	.9089	.9922	
15/16	.5781	.6615	.7448	.8281	.9115	.9948	
31/32	.5807	.6641	.7474	.8307	.9141	.9974	