

PART H – RELEVANT CHARTS AND TABLES

Table H-1: Approximate Conversions from English to SI Units

	<i>To Convert From:</i>	<i>To:</i>	<i>Multiply by:</i>
LENGTH	mils	millimeters (mm)	0.025 4
	inches (in)	millimeters (mm)	25.4
	feet (ft)	meters (m)	0.304 8
	yards (yd)	meters (m)	0.914 4
	miles (mi)	kilometers (km)	1.609 347
AREA	square inches (in ²)	square millimeters (mm ²)	645.16
	square feet (ft ²)	square meters (m ²)	0.092 903
	square yards (yd ²)	square meters (m ²)	0.836 127 4
	acres (ac)	hectares (ha)	0.404 687
	square miles (mi ²)	square kilometers (km ²)	2.59
VOLUME	fluid ounces (fl oz)	milliliters (mL)	29.573 53
	gallons (US liquid) (gal)	liters (L)	3.785 412
	cubic feet (ft ³)	cubic meters (m ³)	0.0283 168 5
	cubic yards (yd ³)	cubic meters (m ³)	0.764 549
	<i>*Volumes greater than 1000 L shall be shown in m³</i>		
MASS	ounces (oz)	grams (g)	28.349 52
	pounds (lb)	kilograms (kg)	0.453 592
	tons (short) (2000lb) (T)	metric tons (t)	0.907 184
OTHER	Fahrenheit (°F)	Celsius (°C)	(°F-32)*5 / 9
	Change in Fahrenheit (Δ°F)	Change in Celsius (Δ°C)	(Δ°F)* 5 / 9
	pounds per square inch (psi)	pascals (Pa)	6 894.757

Table H-2: Approximate Conversions from SI to English Units

	<i>To Convert From:</i>	<i>To:</i>	<i>Multiply by:</i>
LENGTH	millimeters (mm)	mils	39.370 08
	millimeters (mm)	inches (in)	0.039 37
	meters (m)	feet (ft)	3.280 8
	meters (m)	yards (yd)	1.093 6
	kilometers (km)	miles (statute) (mi)	0.621 371 2
AREA	square millimeters (mm ²)	square inches (in ²)	0.001 55
	square meters (m ²)	square feet (ft ²)	10.763 91
	square meters (m ²)	square yards (yd ²)	1.195 99
	hectares (ha)	acres (ac)	2.471 04
	square kilometers (km ²)	square miles (mi ²)	0.386 102
VOLUME	milliliters (mL)	fluid ounces (fl oz)	0.033 814
	liters (L)	gallons (US liquid) (gal)	0.264 172
	cubic meters (m ³)	cubic feet (ft ³)	35.314 662 5
	cubic meters (m ³)	cubic yards (yd ³)	1.307 750
MASS	grams (g)	ounces (oz)	0.035 273 9
	kilograms (kg)	pounds (lb)	2.204 623
	metric tons (t)	tons (short)(2000 lb) (T)	1.102 312 2
OTHER	Celsius (°C)	Fahrenheit (°F)	1.8C+32
	Change in Celsius (Δ°C)	Change in Fahrenheit (Δ°F)	1.8(Δ°C)
	pascals (Pa)	pounds per square inch (psi)	1.450 4 * 10 ⁻⁴

Table H-3: SI Prefixes

Multiplication Factor	Prefix	Symbol
1 000 000 000 000 000 000 = 10^{18}	exa	E
1 000 000 000 000 000 = 10^{15}	peta	P
1 000 000 000 000 = 10^{12}	tera	T
1 000 000 000 = 10^9	giga	G
1 000 000 = 10^6	mega	M
1 000 = 10^3	kilo	k
100 = 10^2	hecto ^a	h
10 = 10^1	deka ^a	da
0.1 = 10^{-1}	deci ^a	d
0.01 = 10^{-2}	centi ^a	c
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	p
0.000 000 000 000 001 = 10^{-15}	femto	f
0.000 000 000 000 000 001 = 10^{-18}	atto	a

^aSee 3.2.2 on page 6 of IEEE/ASTM SI 10-1997

**Table H-4: Total Moisture Determinations Conversion Tables
(Start with 500.0 grams wet sand)**

Dry Weight Sand	Percent Moisture	Dry Weight Sand	Percent Moisture	Dry Weight Sand	Percent Moisture
499.5	0.1	477.5	4.7	455.5	9.8
499.0	0.2	477.0	4.8	455.0	9.9
498.5	0.3	476.5	4.9	454.5	10.0
498.0	0.4	476.0	5.0	454.0	10.1
497.5	0.5	475.5	5.2	453.5	10.3
497.0	0.6	475.0	5.3	453.0	10.4
496.5	0.7	474.5	5.4	452.5	10.5
496.0	0.8	474.0	5.5	452.0	10.6
495.5	0.9	473.5	5.6	451.5	10.8
495.0	1.0	473.0	5.7	451.0	10.9
494.5	1.1	472.5	5.8	450.5	11.0
494.0	1.2	472.0	5.9	450.0	11.1
493.5	1.3	471.5	6.0	449.5	11.2
493.0	1.4	471.0	6.2	449.0	11.4
492.5	1.5	470.5	6.3	448.5	11.5
492.0	1.6	470.0	6.4	448.0	11.6
491.5	1.7	469.5	6.5	447.5	11.7
491.0	1.8	469.0	6.6	447.0	11.9
490.5	1.9	468.5	6.7	446.5	12.0
490.0	2.0	468.0	6.9	446.0	12.1
489.5	2.1	467.5	7.0	445.5	12.2
489.0	2.2	467.0	7.1	445.0	12.4
488.5	2.4	466.5	7.2	444.5	12.5
488.0	2.5	466.0	7.3	444.0	12.6
487.5	2.6	465.5	7.4	443.5	12.7
487.0	2.7	465.0	7.5	443.0	12.9
486.5	2.8	464.5	7.6	442.5	13.0
486.0	2.9	464.0	7.8	442.0	13.1
485.5	3.1	463.5	7.9	441.5	13.3
485.0	3.1	463.0	8.0	441.0	13.4
484.5	3.2	462.5	8.1	440.5	13.5
484.0	3.3	462.0	8.2	440.0	13.6
483.5	3.4	461.5	8.4	439.5	13.8
483.0	3.5	461.0	8.5	439.0	13.9
482.5	3.6	460.5	8.6	438.5	14.0
482.0	3.7	460.0	8.7	438.0	14.1
481.5	3.8	459.5	8.8	437.5	14.3
481.0	4.0	459.0	8.9	437.0	14.4
480.5	4.1	458.5	9.0	436.5	14.5
480.0	4.2	458.0	9.2	436.0	14.7
479.5	4.3	457.5	9.3	435.5	14.8
479.0	4.4	457.0	9.4	435.0	14.9
478.5	4.5	456.5	9.5	434.5	15.1
478.0	4.6	456.0	9.7	434.0	15.2

**Table H-5: Total Moisture Determinations Conversion Tables
(Start with 1500.0 grams of wet coarse aggregate)**

Dry Weight C. Aggregate	Percent Moisture	Dry Weight C. Aggregate	Percent Moisture	Dry Weight C. Aggregate	Percent Moisture
1499	0.1	1455	3.1	1411	6.3
1498	0.1	1454	3.2	1410	6.4
1497	0.2	1453	3.2	1409	6.4
1496	0.3	1452	3.3	1408	6.5
1495	0.3	1451	3.4	1407	6.6
1494	0.4	1450	3.4	1406	6.7
1493	0.5	1449	3.5	1405	6.8
1492	0.5	1448	3.6	1404	6.8
1491	0.6	1447	3.7	1403	6.9
1490	0.7	1446	3.7	1402	7.0
1489	0.7	1445	3.8	1401	7.1
1488	0.8	1444	3.9	1400	7.1
1487	0.9	1443	3.9	1399	7.2
1486	0.9	1442	4.0	1398	7.3
1485	1.0	1441	4.1	1397	7.4
1484	1.1	1440	4.2	1396	7.5
1483	1.1	1439	4.2	1395	7.5
1482	1.2	1438	4.3	1394	7.6
1481	1.3	1437	4.4	1393	7.7
1480	1.4	1436	4.5	1392	7.8
1479	1.4	1435	4.5	1391	7.8
1478	1.5	1434	4.6	1390	7.9
1477	1.6	1433	4.7	1389	8.0
1476	1.6	1432	4.7	1388	8.1
1475	1.7	1431	4.8	1387	8.1
1474	1.8	1430	4.9	1386	8.2
1473	1.8	1429	5.0	1385	8.3
1472	1.9	1428	5.0	1384	8.4
1471	2.0	1427	5.1	1383	8.5
1470	2.0	1426	5.2	1382	8.5
1469	2.1	1425	5.3	1381	8.6
1468	2.2	1424	5.3	1380	8.7
1467	2.3	1423	5.4	1379	8.8
1466	2.3	1422	5.5	1378	8.9
1465	2.4	1421	5.6	1377	8.9
1464	2.5	1420	5.6	1376	9.0
1463	2.5	1419	5.7	1375	9.1
1462	2.6	1418	5.8	1374	9.2
1461	2.7	1417	5.9	1373	9.2
1460	2.7	1416	5.9	1372	9.3
1459	2.8	1415	6.0	1371	9.4
1458	2.9	1414	6.1	1370	9.5
1457	3.0	1413	6.2	1369	9.6
1456	3.0	1412	6.2	1368	9.7