

## Unicrete Lay-out Tile Tape Measurements in cm. (up to 40')

The following chart gives the measurements required to lay out a tiling tape in  $\frac{1}{2}$  cm. increments (approx.  $\frac{3}{16}$ "- $\frac{1}{4}$ " spacing increments). This will give a tile spacing range when measuring from top of 1"x4" to top of 1"x4 battens of between around 11.5" to 13.5" giving tile head lap coverage of 3" to 5". If using a long (40') lay out tape to measure, you can mark the listed  $\frac{1}{2}$  cm marks using 11 different colours of permanent markers. It is advisable to also use a different symbol with each colour as the colours alone can get confused when marking out the roof.

Alternately you can use the chart by measuring the distance from the top of the top 1"x4" which is usually fastened about 4 cm. from the top of the ridge – to the top of the bottom 1"x4" – usually installed at the 40 cm. mark as measured from the bottom of the eave/fascia line. You then divide this measurement by the ideal tile spacing of 34.5 cm or 13.5" and round up the resulting number to the next whole number. You then use the same top of top 1"x4" to top of bottom 1"x4" measurement number you just used, but this time divide by this rounded up whole number to determine the spacing measurement, and use the chart below to lay out your spacing for your chalk lines that the top of the 1"x4's will be spaced to.

For example:

- Top of top 1"x4" to top of bottom 1"x4" measurement number is 209" or 531 cm.
- $209 \div 13.5 = 15.48$  so you round up to 16 and divide again  $209 \div 16 = 13.06 = \text{chart } 8$   
- 13" spacing
- $531 \div 34.5 = 15.39$  so you round up to 16 and divide again  $531 \div 16 = 33.18 = \text{chart } 8$   
- 33cm spacing

The following chart assumes you have hooked your tape at the bottom edge of the roof and laid out your bottom 2"x2" top edge at the 10 cm. or 4" line, and you have laid out your first 1"x4" top edge at the 40 cm. or 15- $\frac{3}{4}$ " line. You then continue up the tape leaving it hooked at the bottom edge of the roof and using only the numbers in the scale you are using for this side of the roof for laying out your 1"x4" battens.

If using a pre-marked tape, adjust it so that the tape stays as straight as possible and the top of the top 1"x4" mark and the top of the bottom 1"x4" mark are on the same chart and colour and symbol marks.

Should you have any questions regarding the use of this chart or the installation of Unicrete roof tiles, please contact the Unicrete office.

Brent Applegate – Technical Manager (2007)

**#1 – 29.5 cm. (11-5/8") Spacing:** 69.5 (27-3/8"), 99, 128.5, 158, 187.5, 217, 246.5, 276, 305.5, 335, 364.5, 394, 423.5, 453, 482.5, 512, 541.5, 571, 600.5, 630, 659.5, 689, 718.5, 748, 777.5, 807, 836.5, 866, 895.5, 925, 954.5, 984, 1013.5, 1043, 1072.5, 1102, 1131.5, 1161, 1190.5, 1220 (40").

**#2 – 30 cm. (11-13/16") Spacing:** 70 (27-9/16"), 100, 130, 160, 190, 220, 250, 280, 310, 340, 370, 400, 430, 460, 490, 520, 550, 580, 610, 640, 670, 700, 730, 760, 790, 820, 850, 880, 910, 940, 970, 1000, 1030, 1060, 1090, 1120, 1150, 1180, 1210 (39' 8-3/8").

**#3 – 30.5 cm. (12") Spacing:** 70.5 (27-3/4"), 101, 131.5, 162, 192.5, 223, 253.5, 284, 314.5, 345, 375.5, 406, 436.5, 467, 497.5, 528, 558.5, 589, 619.5, 650, 680.5, 711, 741.5, 772, 802.5, 833, 863.5, 894, 924.5, 955, 985.5, 1016, 1046.5, 1077, 1107.5, 1138, 1168.5, 1199, 1229.5, 1260 (40'4").

**#4 – 31 cm. (12-3/16") Spacing:** 71 (28"), 102, 133, 164, 195, 226, 257, 288, 319, 350, 381, 412, 443, 474, 505, 536, 567, 598, 629, 660, 691, 722, 753, 784, 815, 846, 877, 908, 939, 970, 1001, 1032, 1063, 1094, 1125, 1156, 1187, 1218 (39'11-1/2").

**#5 – 31.5 cm. (12-3/8") Spacing:** 71.5 (28-1/8"), 103, 134.5, 166, 197.5, 229, 260.5, 292, 323.5, 355, 386.5, 418, 449.5, 481, 512.5, 544, 575.5, 607, 638.5, 670, 701.5, 733, 764.5, 796, 827.5, 859, 890.5, 922, 953.5, 985, 1016.5, 1048, 1079.5, 1111, 1142.5, 1174, 1205.5, 1237 (40'7").

**#6 – 32 cm. (12-5/8") Spacing:** 72 (28-3/8"), 104, 136, 168, 200, 232, 264, 296, 328, 360, 392, 424, 456, 488, 520, 552, 584, 616, 648, 680, 712, 744, 776, 808, 840, 872, 904, 936, 968, 1000, 1032, 1064, 1096, 1128, 1160, 1192, 1224 (40'1-7/8").

**#7 – 32.5 cm. (12-13/16") Spacing:** 72.5 (28-9/16"), 105, 137.5, 170, 202.5, 235, 267.5, 300, 332.5, 365, 397.5, 430, 462.5, 495, 527.5, 560, 592.5, 625, 657.5, 690, 722.5, 755, 787.5, 820, 852.5, 885, 917.5, 950, 982.5, 1015, 1047.5, 1080, 1112.5, 1145, 1177.5, 1210, 1242.5 (40'9-3/16").

**#8 – 33 cm. (13") Spacing:** 73 (28-3/4"), 106, 139, 172, 205, 238, 271, 304, 337, 370, 403, 436, 469, 502, 535, 568, 601, 634, 667, 700, 733, 766, 799, 832, 865, 898, 931, 964, 997, 1030, 1063, 1096, 1129, 1162, 1195, 1228 (40'3-1/2").

**#9 – 33.5 cm. (13-3/16") Spacing:** 73.5 (28-15/16"), 107, 140.5, 174, 207.5, 241, 274.5, 308, 341.5, 375, 408.5, 442, 475.5, 509, 542.5, 576, 609.5, 643, 676.5, 710, 743.5, 777, 810.5, 844, 877.5, 911, 944.5, 978, 1011.5, 1045, 1078.5, 1112, 1145.5, 1179, 1212.5, 1246 (40'10-9/16").

**#10 – 34 cm. (13-3/8") Spacing:** 74 (29-1/8"), 108, 142, 176, 210, 244, 278, 312, 346, 380, 414, 448, 482, 516, 550, 584, 618, 652, 686, 720, 754, 788, 822, 856, 890, 924, 958, 992, 1026, 1060, 1094, 1128, 1162, 1196, 1230 (40'4-1/4").

**#11 – 34.5 cm. (13-9/16") Spacing:** 74.5 (29-5/16"), 109, 143.5, 178, 212.5, 247, 281.5, 316, 350.5, 385, 419.5, 454, 488.5, 523, 557.5, 592, 626.5, 661, 695.5, 730, 764.5, 799, 833.5, 868, 902.5, 937, 971.5, 1006, 1040.5, 1075, 1109.5, 1144, 1178.5, 1213 (39'9-9/16").