

Tennessee Tech University – Appalachian Center for Crafts – Clay Studio

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Arch Specification Chart from AP Green Refractory Pocket Handbook

SPRUNG ARCHES

2.302" rise per foot of span

9" x 4 1/2" x 2 1/2" or 13 1/2" x 4 1/2" x 2 1/2"

Standard sideskews to be used for Skew

4 1/2-INCH ARCH THICKNESS

Central Angle=84°

SPAN	RISE	INSIDE RADIUS	BRICK REQUIRED PER COURSE				TOTAL
			No. 3 ARCH 9x4 1/2 x (2 1/2 - 1)	No. 2 ARCH 9x4 1/2 x (2 1/2 - 1 1/4)	No. 1 ARCH 9x4 1/2 x (2 1/2 - 2 1/8)	STRAIGHT 9x4 1/2 x 2 1/2	
0'- 6"	1 5/32"	4 1/2"	4	2	.....	.....	6
0'- 7"	1 11/32"	5 7/32"	3	3	.....	.....	6
0'- 8"	1 17/32"	5 31/32"	3	4	.....	.....	7
0'- 9"	1 23/32"	6 23/32"	2	5	.....	.....	7
0'-10"	1 29/32"	7 15/32"	2	5	.....	.....	7
0'-11"	2 1/8"	8 7/32"	2	6	.....	.....	8
1'- 0"	2 5/16"	8 31/32"	1	7	.....	.....	8
1'- 1"	2 1/2"	9 23/32"	1	8	.....	.....	9
1'- 2"	2 11/16"	10 15/32"	.....	9	.....	.....	9
1'- 3"	2 7/8"	11 7/32"	.....	9	.....	.....	10
1'- 4"	3 1/16"	11 31/32"	.....	8	.....	.....	10
1'- 5"	3 1/4"	1'- 0 23/32"	.....	7	.....	.....	10
1'- 6"	3 15/32"	1'- 1 15/32"	.....	7	.....	.....	10
1'- 7"	3 21/32"	1'- 2 3/16"	.....	7	.....	.....	11
1'- 8"	3 27/32"	1'- 2 15/16"	.....	6	.....	.....	12
1'- 9"	4 1/32"	1'- 3 11/16"	.....	6	.....	.....	12
1'-10"	4 7/32"	1'- 4 7/16"	.....	6	.....	.....	12
1'-11"	4 13/32"	1'- 5 3/16"	.....	5	.....	.....	13
2'- 0"	4 19/32"	1'- 5 15/16"	.....	5	.....	.....	14
2'- 1"	4 25/32"	1'- 6 11/16"	.....	4	.....	.....	14
2'- 2"	5"	1'- 7 7/16"	.....	4	.....	.....	14
2'- 3"	5 3/16"	1'- 8 3/16"	.....	3	.....	.....	15
2'- 4"	5 3/8"	1'- 8 15/16"	.....	3	.....	.....	15
2'- 5"	5 9/16"	1'- 9 11/16"	.....	3	.....	.....	16
2'- 6"	5 3/4"	1'-10 7/16"	.....	2	.....	.....	16
2'- 7"	5 15/16"	1'-11 5/32"	.....	2	.....	.....	17
2'- 8"	6 1/8"	1'-11 29/32"	.....	1	.....	.....	17
2'- 9"	6 11/32"	2'- 0 21/32"	.....	.....	.....	.....	17
2'-10"	6 17/32"	2'- 1 13/32"	.....	.....	.....	.....	18
2'-11"	6 23/32"	2'- 2 5/32"	.....	.....	.....	.....	18
3'- 0"	6 29/32"	2'- 2 29/32"	.....	.....	.....	.....	19
3'- 3"	7 15/32"	2'- 5 5/32"	.....	.....	.....	.....	20
3'- 6"	8 1/16"	2'- 7 13/32"	.....	.....	.....	.....	21
3'- 9"	8 5/8"	2'- 9 5/8"	.....	.....	.....	.....	23
4'- 0"	9 7/32"	2'-11 7/8"	.....	.....	.....	.....	24
4'- 3"	9 25/32"	3'- 2 1/8"	.....	.....	.....	.....	25
4'- 6"	10 3/8"	3'- 4 3/8"	.....	.....	.....	.....	27
4'- 9"	10 15/16"	3'- 6 19/32"	.....	.....	.....	.....	28
5'- 0"	11 1/2"	3'- 8 27/32"	.....	.....	.....	.....	29