

Checker Obsession

by Arya Akhavan (May 2014)

Angles for R.I. = 1.540

73 + 16 girdles = 89 facets

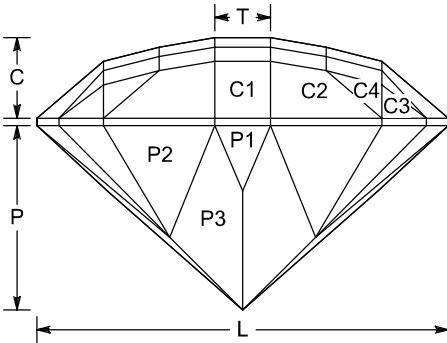
4-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.136$ $U/W = 0.136$

$P/W = 0.446$ $C/W = 0.195$

$Vol./W^3 = 0.241$



PAVILION

P1	42.70°	96-24-48-72	Cut to centerpoint.
P2	42.50°	03-21-27-45-51-69-75-93	Meet at culet.
G1	90.00°	96-24-48-72	Set stone size.
G2	90.00°	03-21-27-45-51-69-75-93	Level girdle.
P3	41.50°	02-22-26-46-50-70-74-94	Meet P1, P2, G1, G2
P4	41.67°	12-36-60-84	Meet P2, P3
G3	90.00°	12-36-60-84	Level girdle.

CROWN

C3	46.60°	12-36-60-84	Level girdle.
C2	41.00°	03-21-27-45-51-69-75-93	Level girdle.
C1	40.45°	96-24-48-72	Set girdle width.
C4	38.29°	05-19-29-43-53-67-77-91	Meet G2, G3, C2, C3
C5	19.75°	12-36-60-84	Meet C3, C4
C6	16.97°	09-15-33-39-57-63-81-87	Meet C2, C4, C5
C7	14.24°	96-24-48-72	Meet C1, C2, C6
C8	13.49°	12-36-60-84	Meet C5, C6
C9	9.63°	96-24-48-72	Meet C6, C7, C8
T	0.00°	Table	Meet C8, C9

I've been slowly uploading my new designs to the Gemology Project, and seeing all the triangle checkers made me want to write up a square checker with a broad spread. Unfortunately squares are much harder to work with. Works in materials from feldspar to rutile (RI = 1.52 - 2.62) with no changes, but I prefer orange lab corundum. Suggested size = 8-15 mm

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