

Drilling Angles shown are for 5" PAP – Adjust for other PAPs

Zing Hybrid Drilling Chart

	Layout	Layout Specs	Low RG	Int Diff	Total Diff	Performance Differential	RG PAP
	Undrilled	-	2.499	0.020	0.051	0.055	
A	Maximum Flip	Pin Over 70° x 3 3/4" x 20°		0.030	0.057	0.065	2.517
B	All Purpose	Pin Over 45° x 4 1/4" x 35°		0.025	0.051	0.057	2.525
C	Smooth Hook	Pin Over 15° x 4 1/2" x 35°		0.014	0.045	0.047	2.533
D	Length with Control	Pin Under 75° x 5" x 80°		0.025	0.040	0.047	2.525
E	Total Control	Pin Over 90° x 2 1/4" x 45°		0.027	0.056	0.036	2.507
F	Maximum Flare	65° x 4" x 30° with balance hole		0.044	0.071	0.085	2.533

*Layout F - Maximum Flare utilizes a balance hole and is not USBC compliant as of August 1, 2020

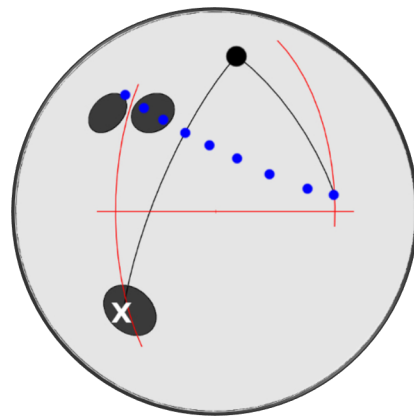
“Performance Differential” is a term used to accurately describe the track flare of a ball. The TRUE amount of track flare of a drilled ball is related to both the intermediate and total differential of the drilled ball. The “Performance Differential” of the drilled ball measures the relationship between the intermediate and total differential to give an accurate measure of the amount of track flare in the drilled ball.

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Suggested Layouts for Asymmetric Cores

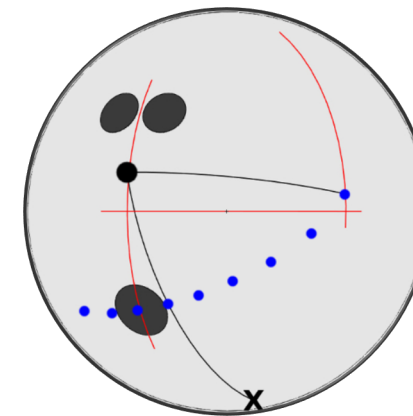
A – Maximum Flip

Pin Over
 $70^\circ \times 3 \frac{3}{4}'' \times 20^\circ$



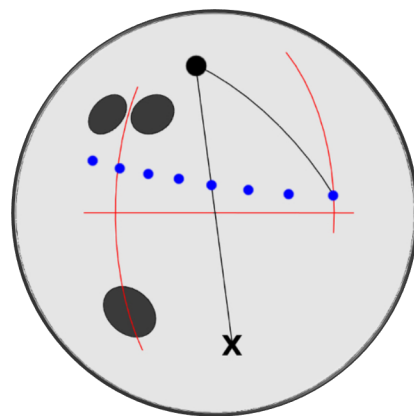
D – Length with Control

Pin Under
 $75^\circ \times 5'' \times 80^\circ$



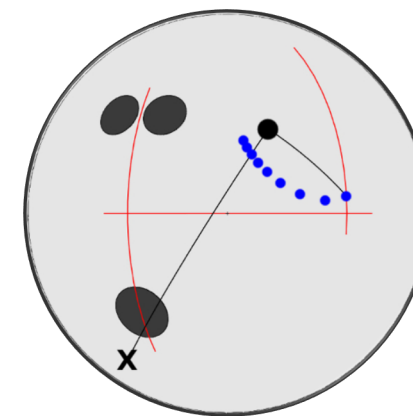
B – All Purpose

Pin Over
 $45^\circ \times 4 \frac{1}{4}'' \times 35^\circ$



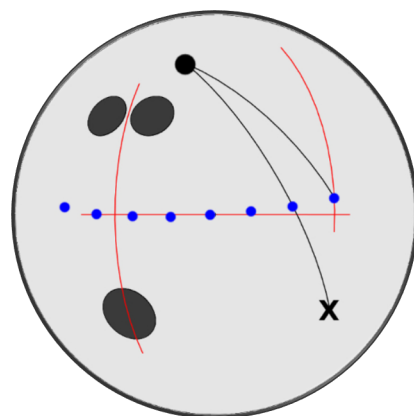
E – Total Control

Pin Beside
 $90^\circ \times 2 \frac{1}{4}'' \times 45^\circ$



C – Smooth Hook

Pin Over
 $15^\circ \times 4 \frac{1}{2}'' \times 35^\circ$



F – Maximum Flare

$65^\circ \times 4'' \times 30^\circ$
with balance hole

**Not USBC Compliant
as of August 1, 2020*

