# FRONT (OBVERSE) · DIAMETER

Option B (recommended). Front: Red Panda art in relief with hard-enamel color fill; letters P.O.P.




**DIAMETER**

**27.00 mm**

tolerance ±0.05

**RIM WIDTH**

**1.10 mm**

**EDGE**

**Reeded**

132 reeds

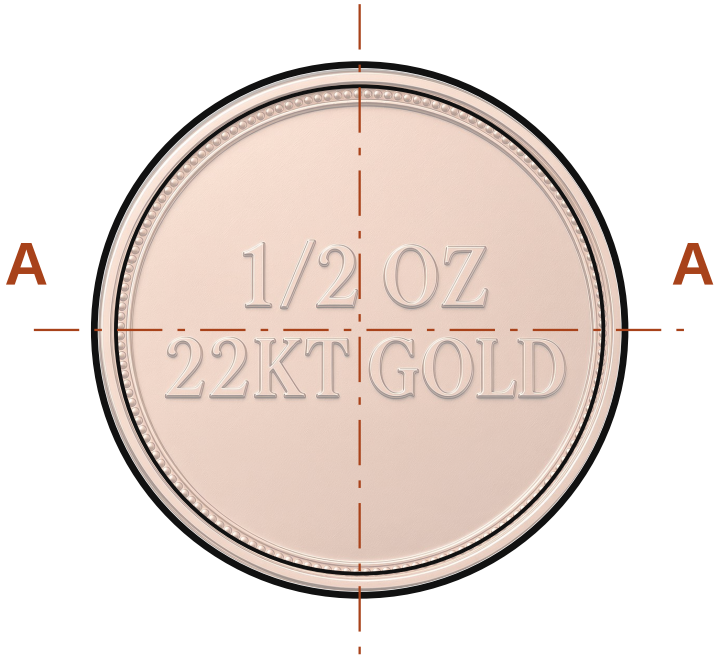
**FRONT LETTERING**

**P.O.P**

**Print at 100% for true size**

# BACK (REVERSE) AND CROSS-SECTION

Option B. Back face: only "1/2 OZ" and "22KT GOLD", plain field.



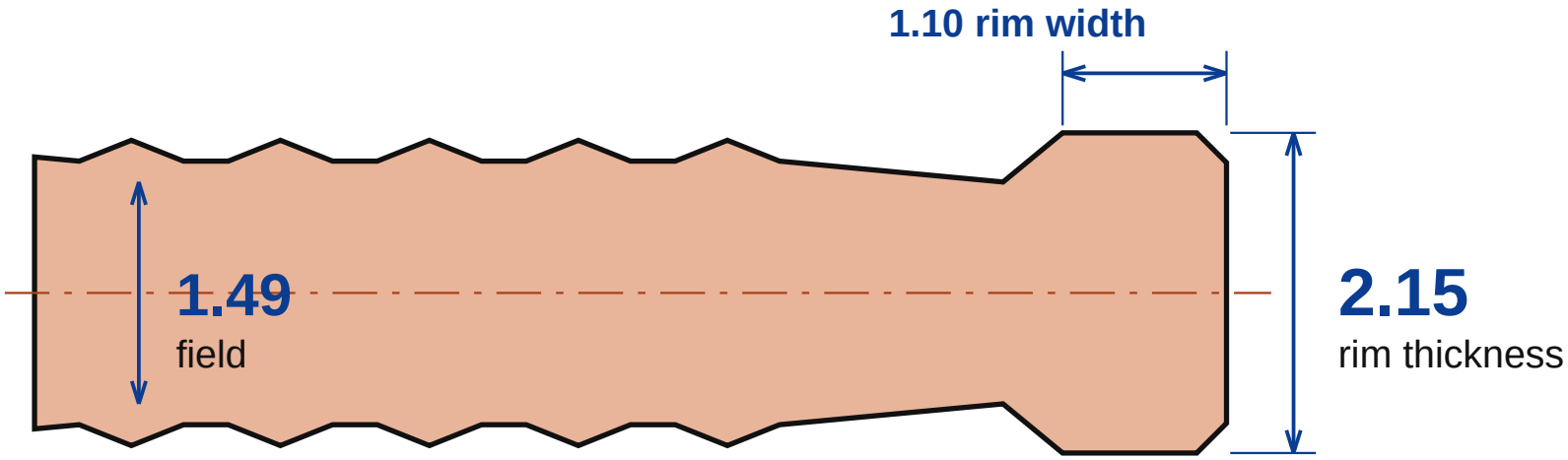

Cross-section A–A is drawn below at 20:1.

**Back lettering:**

**1/2 OZ**

**22KT GOLD**

**Relief 0.28 max per side**



# OPTION A · HALF-DOLLAR DIAMETER

Same weight in a 30.61 mm round. Thin and easy to bend: not recommended.




**DIAMETER**

**30.61 mm**

**RIM THICKNESS**

**1.60 mm**

**THICKNESS IF FLAT**

**about 1.30 mm**

(17.7 g/cm³ alloy)

**EDGE**

**Reeded, 150 reeds**

# SPECIFICATIONS

Option B is recommended. Option A shown for comparison.

| | OPTION B | OPTION A |
|---|---|---|
| Diameter | **27.00 mm** | **30.61 mm** |
| Rim thickness | **2.15 mm** | **1.60 mm** |
| Field thickness | **1.49 mm** | **1.16 mm** |
| Max relief per side | **0.28 mm** | **0.17 mm** |
| Edge | **132 reeds** | **150 reeds** |
| Total weight | **16.966 g** | **16.966 g** |
| Fine gold | **15.552 g = 1/2 ozt** | **15.552 g = 1/2 ozt** |
| Metal | **22K rose gold** | **22K rose gold** |
| Fineness | **916.7 (91.67% Au)** | **916.7 (91.67% Au)** |
| Alloy (suggested) | **Au 91.67, Cu ~8, Ag trace** | **same** |
| Density used | **17.7 g/cm³ (17.6–17.8)** | **same** |
| Color | **Hard enamel in recessed cells** | **same** |

# HOW THE NUMBERS WORK

Every figure on the previous pages comes from these steps.

**Fine gold: 0.5 troy oz × 31.1035 g = 15.552 g**

**22K = 22 ÷ 24 = 91.67% gold (916.7 fine)**

**Total weight: 15.552 g ÷ 0.9167 = 16.966 g**

Same weight as the U.S. 1/2 oz Gold Eagle (27.00 mm).

Density of 22K rose gold: about 17.7 g/cm³ (assumed;
pure Au + Cu works out to 17.6; silver raises it a little).

Volume: 16.966 g ÷ 17.7 = 0.958 cm³ = 958 mm³

Ø 27.00 mm: face 572.6 mm² → flat disk 1.67 mm thick.

Ø 30.61 mm: face 735.9 mm² → flat disk 1.30 mm thick.

A solid 30.61 × 2.15 mm disk would weigh about 28 g.

That is why a half-dollar-size 1/2 oz round must be thin.

Reference: U.S. half dollar 30.61 mm × 2.15 mm, 150 reeds
(U.S. Mint). Final blank weight is set by the mint.

# PRODUCTION NOTES

What to tell a mint.

**1. Mints STRIKE coins: a weighed blank is pressed between steel** dies inside a reeded collar. Coins are not poured into molds.

2. Poured gold means cast bars: softer detail, no mirror fields.

**3. Rose gold: ask each mint if it stocks 22K rose-gold blanks.** Many hold only 24K or 22K yellow blanks. A custom alloy may add a melt charge and a larger minimum.

4. Proof finish: mirror fields and frosted relief.

5. Marks: fineness stamp plus the mint’s registered maker mark.

6. Do not copy any U.S. coin design. No face value.

**7. Option B (27.00 × 2.15 mm) is the proven 1/2 oz format.**

8. Color: hard (vitreous) enamel is fired into recessed cells on the front, and optionally the back, in true colors: russet orange, white, black, dark brown and green. Raised polished gold lines separate the colors. Enamel adds negligible weight (well under 0.1 g); the gold content (1/2 ozt) and total gold weight are unchanged. Ask the mint about enamel colors, cost and minimums.

9. Not legal tender. The $PoP token is not backed by gold.