TECHNICAL DATA SHEET

TH240g-B50x200-L-HRC-ASTM-C473-p8

Standard: ASTM C473 (Section 8)
Status: Fully Compliant

Test Standard: ASTM C473 (Section 8: *Core, End, and Edge Hardness*)
Application: Determination of core, end, and edge hardness of gypsum panel products by standardized indentation test.

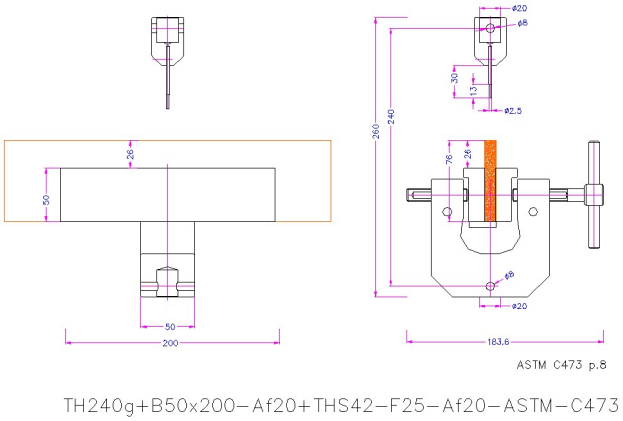


Fig. 1: Fixture Assembly & Dimensions (TH240g+B50x200–Af20 + THS42–F25–Af20–ASTM–C473)

1. Description and Function

The fixture is designed to perform standardized hardness tests on gypsum panels in accordance with ASTM C473, Paragraph 8:

- **Clamping Fixture (TH240g):** Holds the specimen (305 × 76 mm) securely across a 50 × 200 mm clamping area. The test edge protrudes by 26 mm, fully complying with the normative requirement of not less than 25 mm (1 in.).
- **Indentation Punch (THS42-F25 / HRC):** Hardened cylindrical steel pin Ø 2.5 mm with a flat, squared face. It penetrates vertically 12.7 mm (1/2 in.) into the core, edge, or end surface of the specimen.

2. Technical Specifications

Parameter	Fixture Specification	ASTM C473 Requirement
Test Standard	ASTM C473, Paragraph 8	*Core, End, and Edge Hardness (Method B)*
Maximum Load Capacity	1.5 kN	*Fully suitable for required test loads*
Clamping Jaw Dimensions (H × W)	50 mm × 200 mm	*Rigid, tilt-free support across specimen width*
Specimen Extension above Grip	**26 mm**	*not less than 25 mm (≥ 1.0 in.)*
Indentation Punch Diameter	**Ø 2.5 mm** (hardened steel)	*0.099 ± 0.003 in. (2.515 ± 0.076 mm)*
Usable Pin Length	30 mm (visual mark at 13 mm)	*> 12.7 mm (unobstructed penetration path)*
Standard Penetration Depth	12.7 mm	*12.7 mm (1/2 in.)*
Standard Specimen Dimensions	305 mm × 76 mm (thickness e.g. 10 mm)	*12 in. × at least 3 in. (305 mm × 76 mm)*
Machine Adapters (Upper / Lower)	**Af20** (Bore Ø 20 mm, Pin Ø 8 mm)	*Standard quick-coupling for UTMs*
Installation Height	approx. 240 mm (total height approx. 260 mm)	*Width incl. handle spindle approx. 183.6 mm*

3. Scope of Delivery & Accessories

- **1x** Screw action grip TH240g with clamping jaw pair 50 × 200 mm (Af20)
- **1x** Punch holder THS42-F25 with hardened pin Ø 2.5 mm (Af20)
- **2x** Connecting pins Ø 8 mm for UTM adapter connection