FIREPLACE FIELD MEASUREMENT & INSTALLATION GUIDE

ARCHITECTURAL CONCRETE & STONE SURROUND SPECIFICATION MANUAL

01. PROJECT & SITE SPECIFICATIONS

DATE:

JOB / PROJECT NAME:

HOMEOWNER / CLIENT:

CONTRACTOR / ARCHITECT:

CONTACT / PHONE:

SITE ADDRESS:

02. DESIGN & ARCHITECTURAL SELECTIONS

HEARTH CONFIGURATION

Raised Hearth Flush Hearth

RAISED HEIGHT:

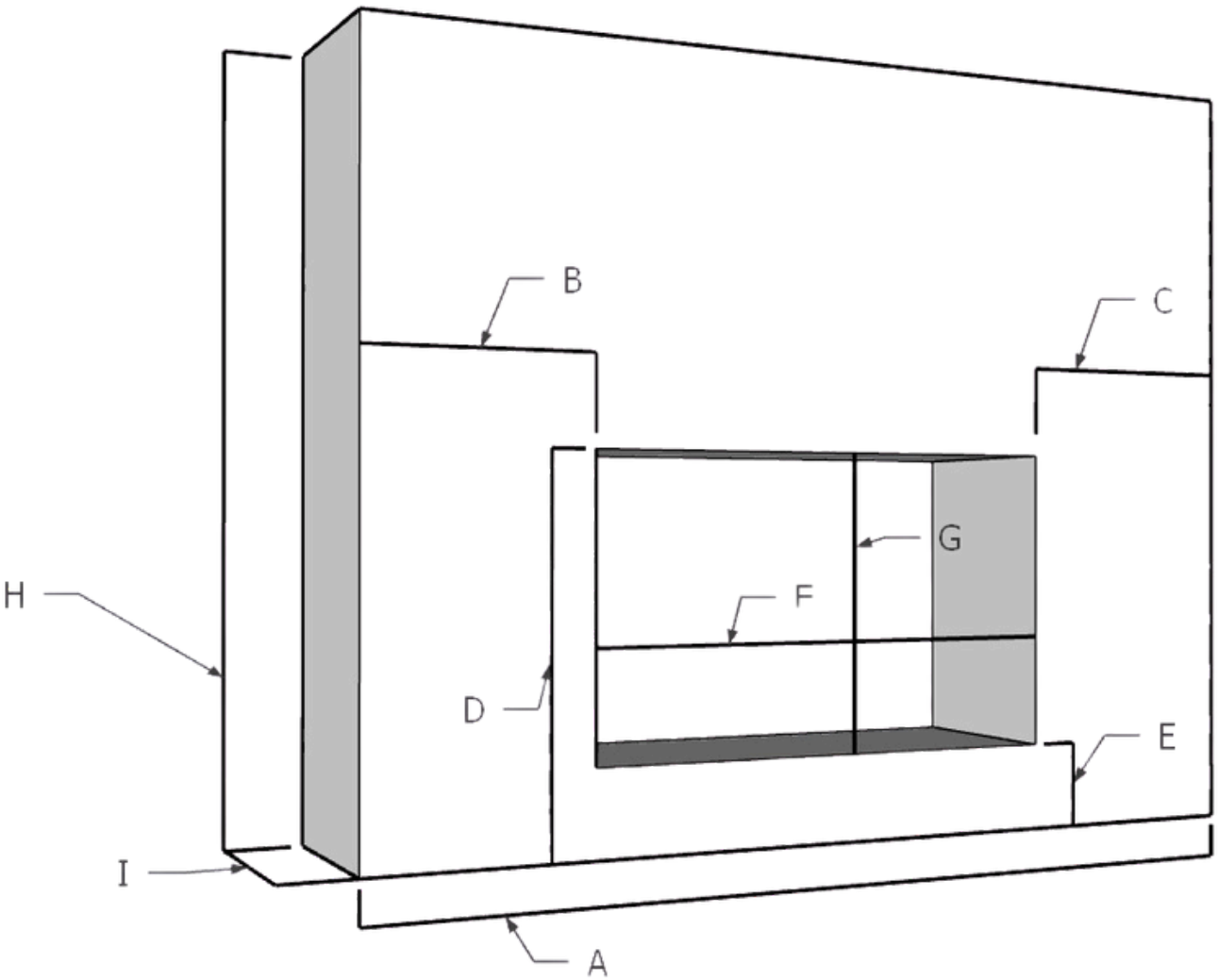
HEARTH DEPTH:

20" (IRC Min) 22" 24" Custom

CAST COLOR SELECTION: _____

ADDITIONAL NOTES: _____

03. ARCHITECTURAL FIELD REFERENCE DIAGRAM



04. FIELD MEASUREMENT AUDIT RECORD

REF	MEASUREMENT CALLOUT	FIELD RECORD (INCHES)
A	Hearth Overall Width	_____
B	Left Surround Return	_____
C	Right Surround Return	_____
D	Firebox Opening Height	_____
E	Firebox Opening Width	_____
F	Firebox Depth / Ledge	_____
G	Firebox Cavity Height	_____
H	Total Height	_____
I	Hearth Extension Depth	_____

05. BUILDING CODE STANDARDS & CLEARANCE MANDATES

- **Hearth Depth Regulations (IRC R1001.4.2):** Standard code and most appliance manufacturers require a minimum 20-inch hearth extension depth (Dim I) in front of the firebox opening. Always verify local code variances and specific manufacturer specifications for exact depth requirements.
- **Georgia Hearth Code Mandate (IRC R1001.9.2):** Specific state and local building provisions govern hearth slab thickness and structural support requirements—verify local Georgia building compliance prior to fabrication and placement.
- **Lateral Hearth Extension (Dim A vs E):** Non-combustible hearth extensions must extend at least 12 inches beyond each side of the firebox opening for standard fireplaces.
- **Combustible Clearance Rules:** Non-combustible concrete surrounds provide thermal isolation. Any exposed wood mantel requires a minimum 6" lateral clearance and 12" overhead clearance from the firebox opening.

06. PROFESSIONAL INSTALLATION GUIDELINES & QUALITY AUDIT

STEP-BY-STEP SURROUND INSTALLATION STANDARD

1. **Substrate Prep:** Ensure backing wall is structural, rigid, and non-combustible (cement board, masonry, or CMU). Verify straightness across all mounting faces.
2. **Hearth Leveling:** Set hearth slab using foam adhesive and finish seams using high-grade epoxy grout to ensure proper structural bond and level placement across all axes.
3. **Vertical Leg Anchoring:** Secure surround legs using mechanical stainless steel brackets anchored to studs or masonry. Apply structural polyurethane adhesive to contact faces.
4. **Header Setting:** Dry-fit header piece. Set with high-temp mortar or structural epoxy at all masonry seams. Ensure mechanical anchors bear structural load.
5. **Joint Sealing:** Apply penetrating sealer after full 72-hour curing period.

INSTALLER PRE-INSTALLATION AUDIT CHECKLIST

Squareness Audit: Cross-measure diagonals (variance ≤ 1/4").

Straightness Check: Check wall verticality/flatness with straight edge.

Framing Support: Verify continuous blocking behind substrate.

Tolerance Allowance: Molds allow 1/4" expansion joint.