

## MODULE 4 CHEAT SHEET

Key concepts and quick references from Materiality & Systems.

### CORE MATERIALS

#### Concrete

Strong in compression, versatile, high thermal mass. Foundation, floors, walls.

#### Wood

Warm, renewable, easy to work. Framing, flooring, trim, finishes.

#### Steel

Strongest per unit weight, long spans. Beams, columns, connections.

#### Glass

Transparency, daylight, views. Windows, curtain walls, skylights.

#### Stone

Durable, timeless character. Cladding, counters, flooring, fireplaces.

#### Brick

Modular, excellent compression. Walls, veneers, paving, chimneys.

### SUSTAINABLE STRATEGIES

- ☐ Low-VOC paints, adhesives, and sealants
- ☐ FSC-certified or reclaimed wood
- ☐ Recycled-content materials (steel, glass, insulation)
- ☐ Locally sourced materials to reduce transport impact
- ☐ Life cycle thinking — durability over disposability

### BUILDING SYSTEMS

#### Moisture Management

Barriers, flashing, drainage planes keep water out of the envelope.

#### Plumbing (DWV)

Supply, waste, and vent piping for kitchens, baths, and fixtures.

#### HVAC

Heating, ventilation, and cooling — forced air, radiant, or heat pumps.

#### Electrical

Power distribution, lighting circuits, outlets, and panels.

#### Fire Protection

Smoke detection, fire-rated assemblies, sprinklers in some codes.

### BUDGET TIP

#### Splurge Where It Counts

Invest in high-impact areas (kitchen, master bath, entry). Economize on back-ground spaces (secondary bedrooms, utility areas).

### FINISHING CHECKLIST

- ☐ Material transitions planned at every junction
- ☐ Reveal details specified where materials meet
- ☐ Hardware selections match overall design intent
- ☐ Interior and exterior palettes feel cohesive
- ☐ Concept board completed with 5+ materials and systems