

An isometric architectural line drawing of a house's structural frame, showing the roof trusses, walls, and floor joists. The drawing is centered and serves as the background for the text.

Sani-Effect Environmental Remediation Protocol

An integrated, 9-step structural and atmospheric defense master-plan.

Two distinct scopes of work, one continuous timeline.

Achieving long-term microbial defense requires precise synchronization. Sani-Effect's advanced sanitization protocol integrates directly into the General Contractor's demolition and rebuilding sequence.

Strict logistical hand-offs ensure every structural element is treated and protected prior to enclosure.

General Contractor Scope



Isometric
hammering

Construction
Shope

Sani-Effect Scope



High-tech
HEPA vacuum

Advanced protective
spray applicators

Advanced air
purification unit

High-tech
HEPA vacuum



PHASE 1

EXPOSURE & STRUCTURAL DEFENSE

Demolition, HEPA Extraction, and Protective Coating.

PHASE 2

SYSTEM INTEGRATION & PRE-TREATMENT

Ductwork Treatment, Humidity Control, and Active Air Purification.

PHASE 3

FINAL POLISH & ONGOING MANAGEMENT

Final Hygienic Cleaning, Standalone Units, and Official Certification.

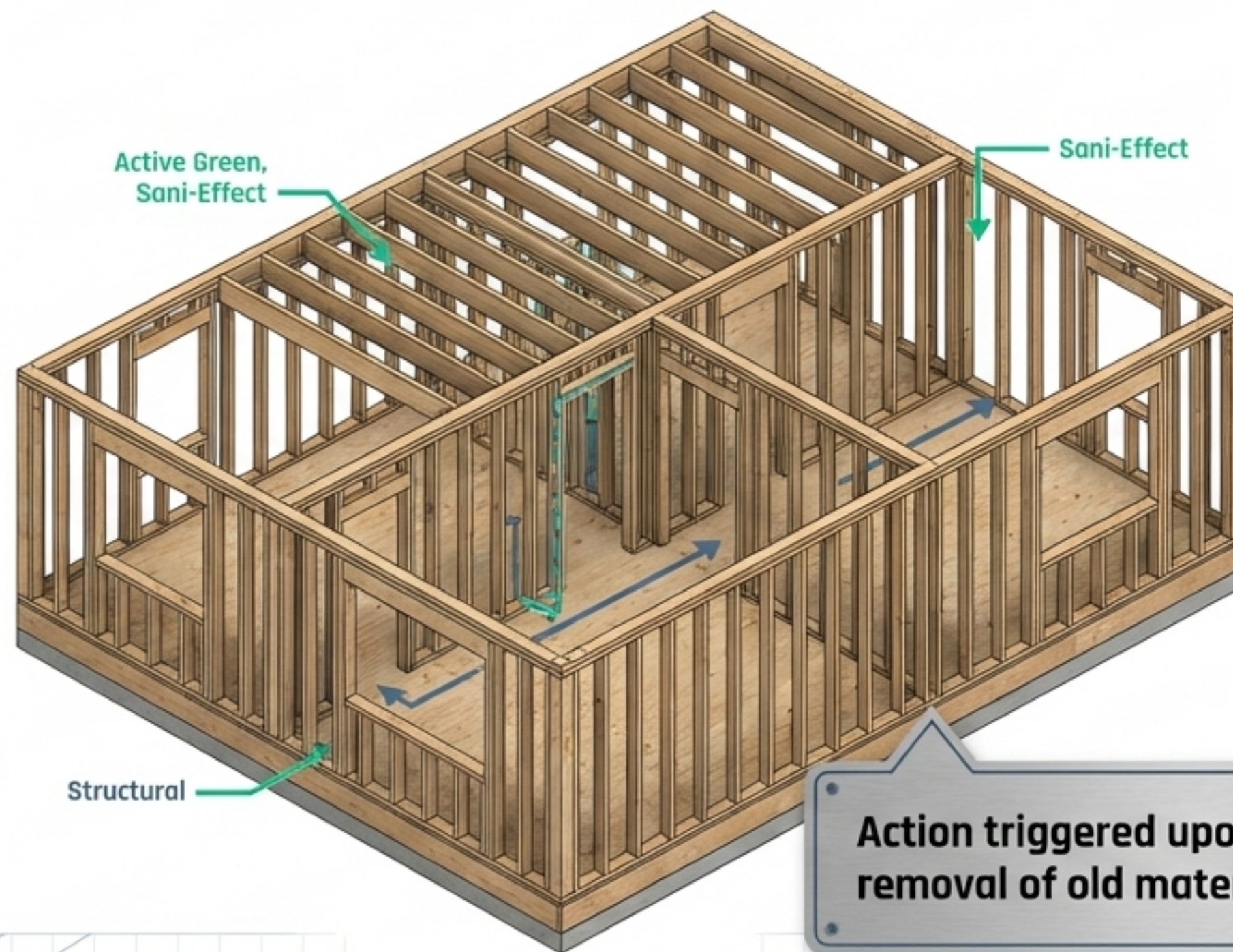
Operational Boundaries & Integration Checkpoints

Project Component	Sani-Effect Scope	General Contractor Scope	The Hand-Off Checkpoint
Walls & Ceilings	HEPA vacuum & apply coatings.	Demolition & enclosure.	SE must treat framing prior to new insulation/drywall.
Ductwork	Coat interior surfaces.	Install new ducts.	SE must coat fiberglass prior to final installation.
Moisture & Air Units	Supply Sani-Duct Guard & On-Wall Dehumidifier.	Mechanical installation & wiring.	GC maintains structural & mechanical liability for installation.

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PHASE 1 — EXPOSURE & STRUCTURAL DEFENSE

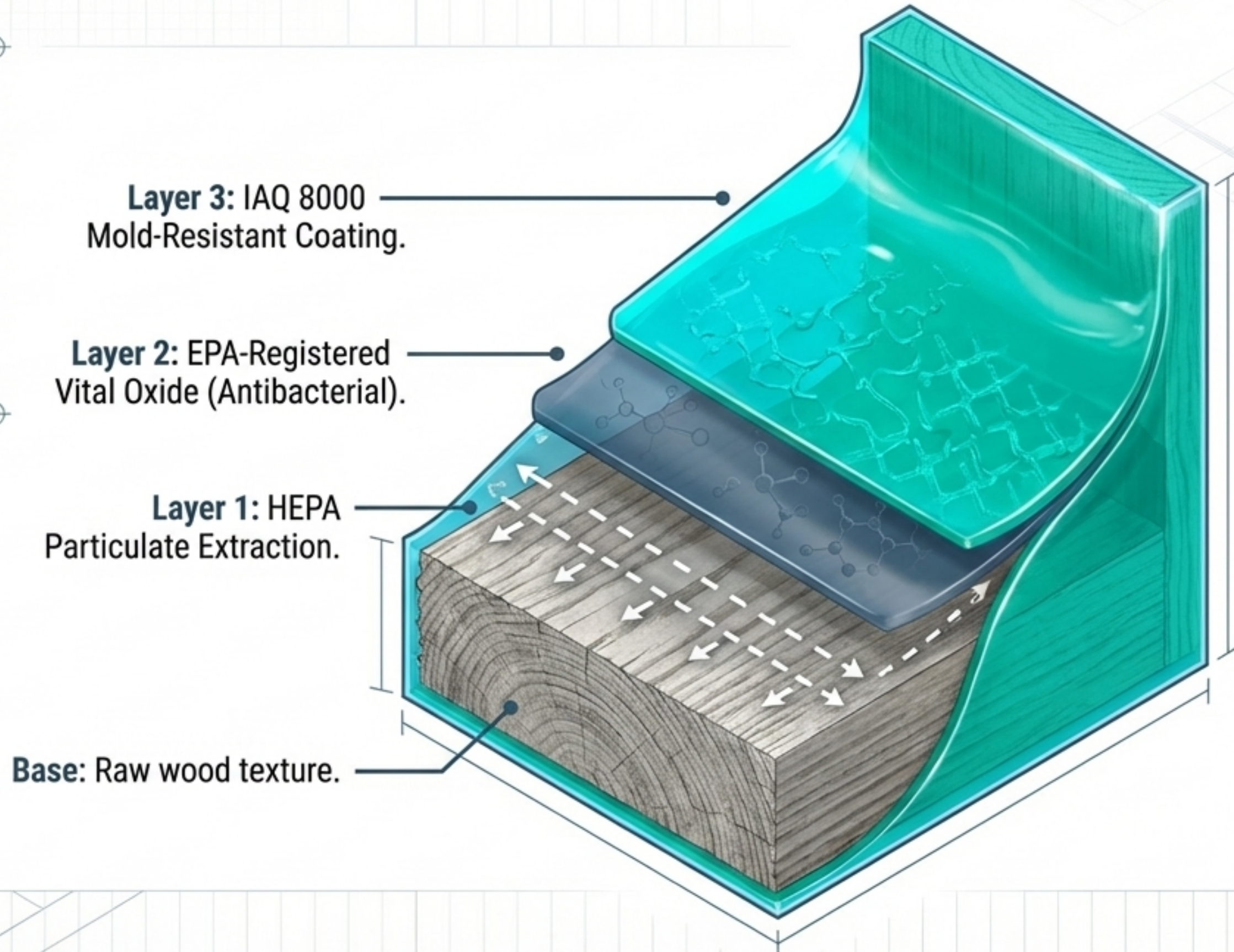
Step 1: Ceiling Cavity & Return Air Treatment, Step 2: Wall Framing & Structural Protection



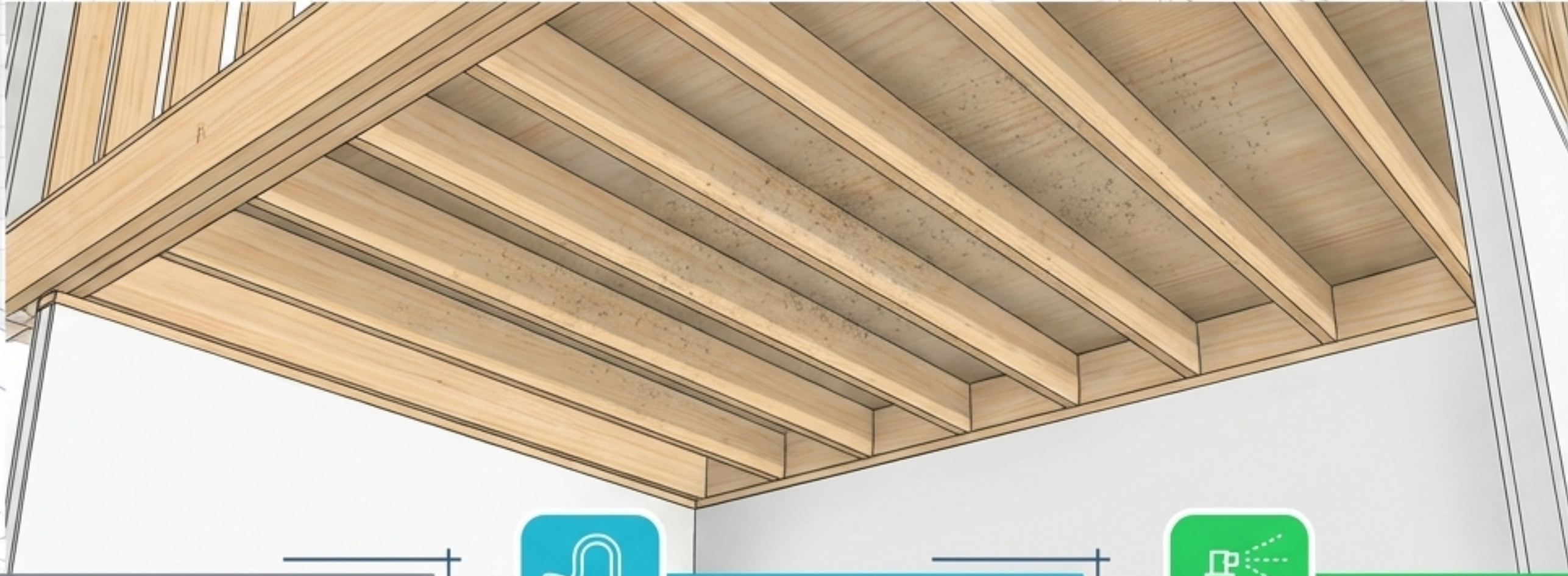
Action triggered upon GC's complete removal of old materials.

Engineering a Permanent Structural Shield

Advanced coatings actively resist future fungal growth on treated surfaces, offering superior long-term protection compared to standard topical cleaning agents.



STEP 1: CEILING CAVITY & RETURN AIR TREATMENT



1. GC Action: Complete removal of the ceiling beneath air ducts and old ductwork.

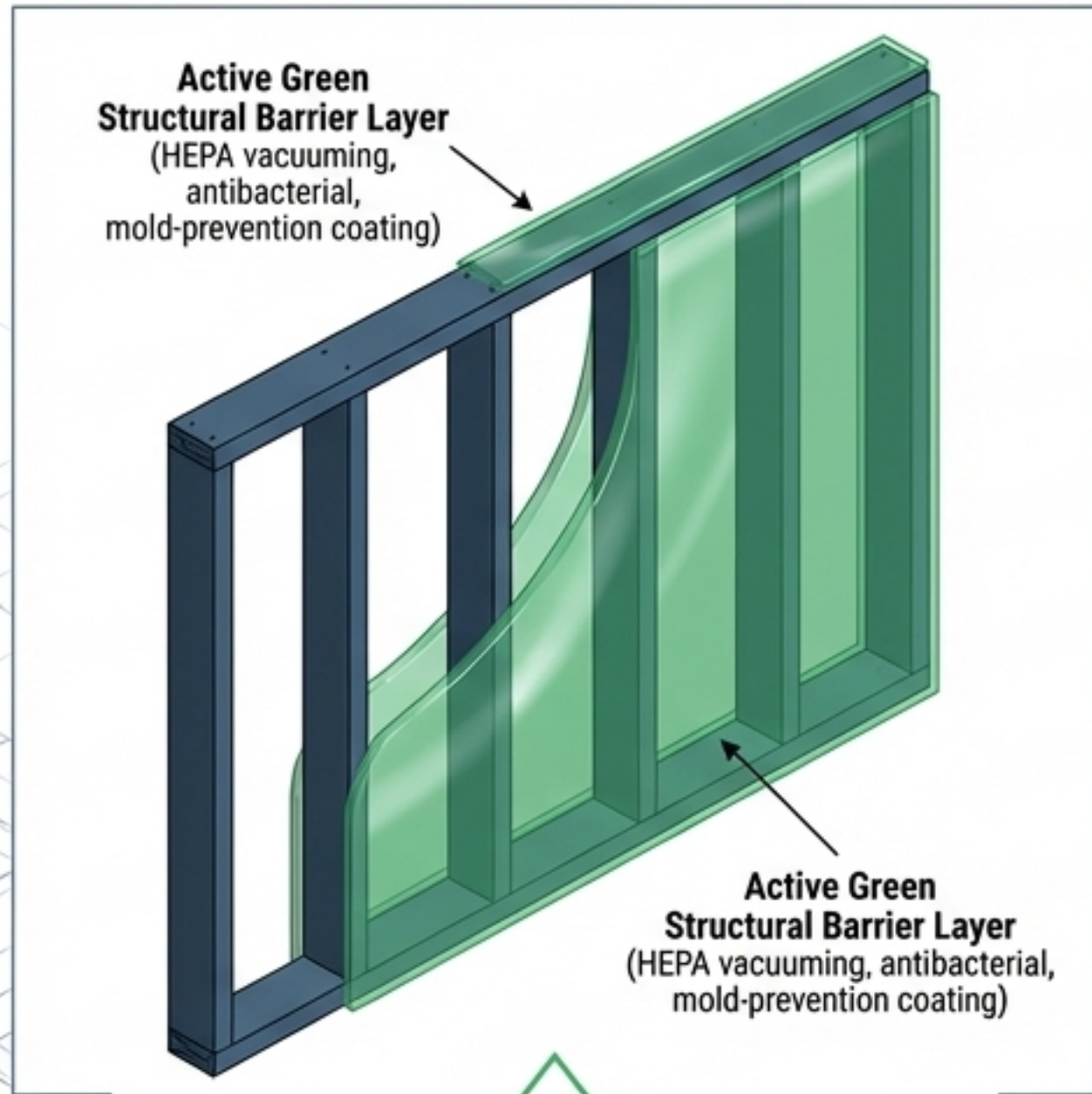


2. SE Action: HEPA vacuuming of all exposed interior structural areas.



3. SE Action: Application of EPA-registered antibacterial treatment (Vital Oxide) and IAQ 8000 mold-resistant coating.

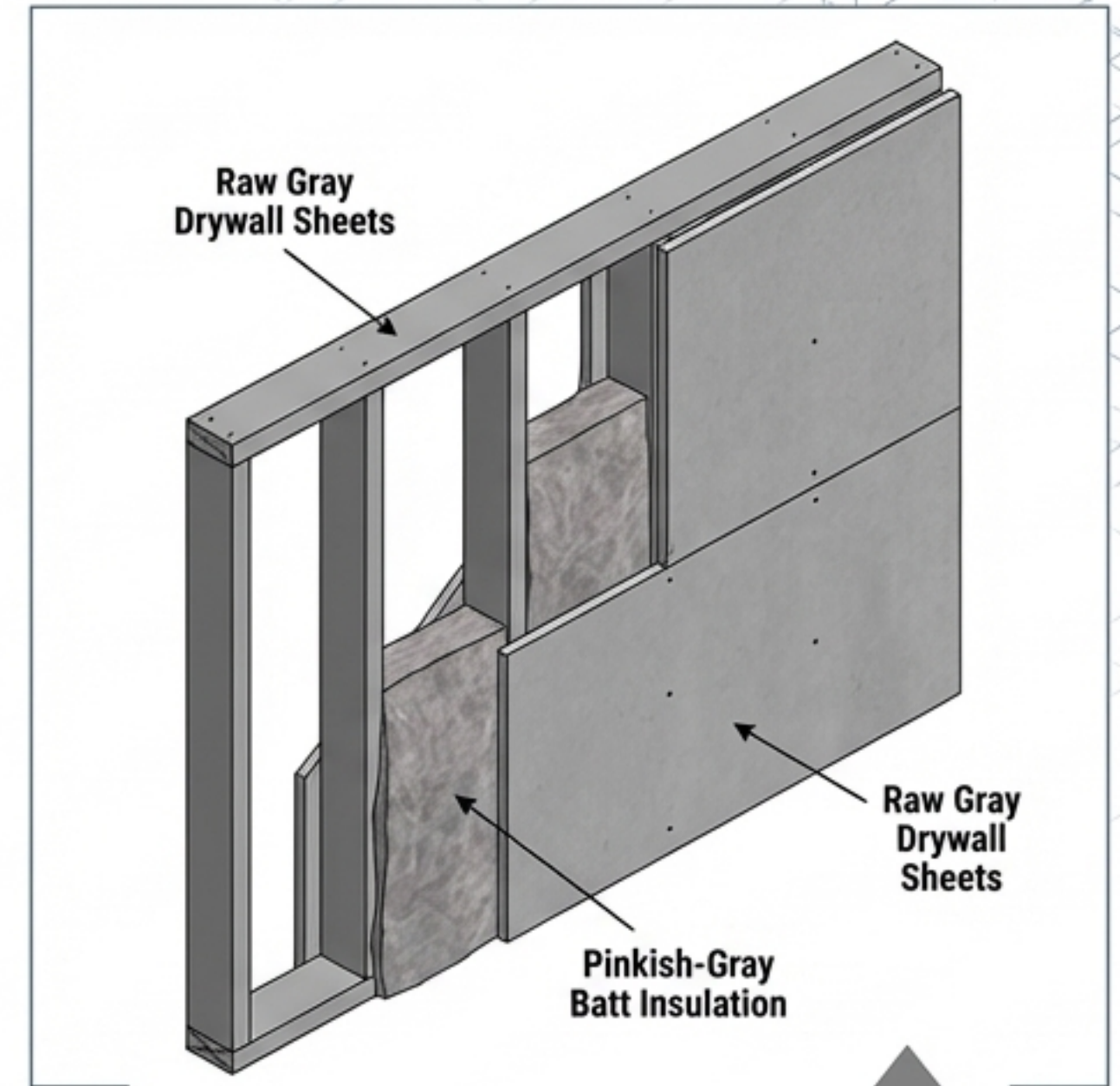
STEP 2: WALL FRAMING & STRUCTURAL PROTECTION



Sani-Effect Execution: Complete structural protection applied to all framing prior to closure.



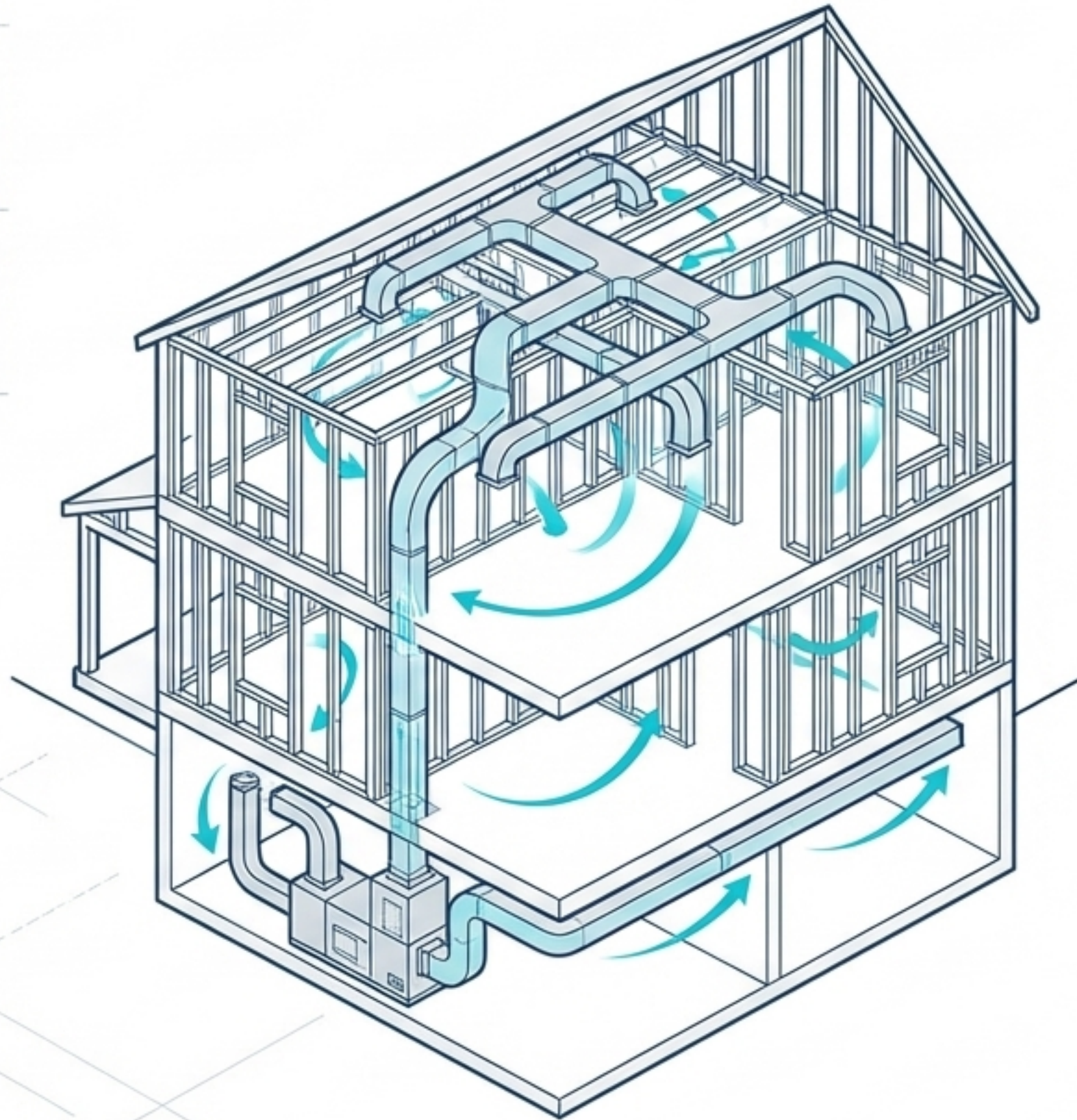
CORE DIRECTIVE:
Prior to the GC installing new insulation and drywall, Sani-Effect must execute structural protection.



GC Responsibility: Demolition and removal of interior/exterior drywall and existing insulation. Installation of new insulation and drywall AFTER Sani-Effect completion.

PHASE 2 – SYSTEM INTEGRATION & PRE-TREATMENT

02



STEP 3: PROTECTIVE DUCT COATING

Sani-Effect Action: Application of antimicrobial coating to internal duct surfaces.



STEP 4: PRE-RECONSTRUCTION AIR TREATMENT

Sani-Effect Action: Deployment of high-capacity HEPA and activated carbon air scrubbers throughout the construction zone.



STEP 5: MOISTURE & HUMIDITY CONTROL

GC Action: Installation of temporary commercial dehumidification and environmental monitoring systems.



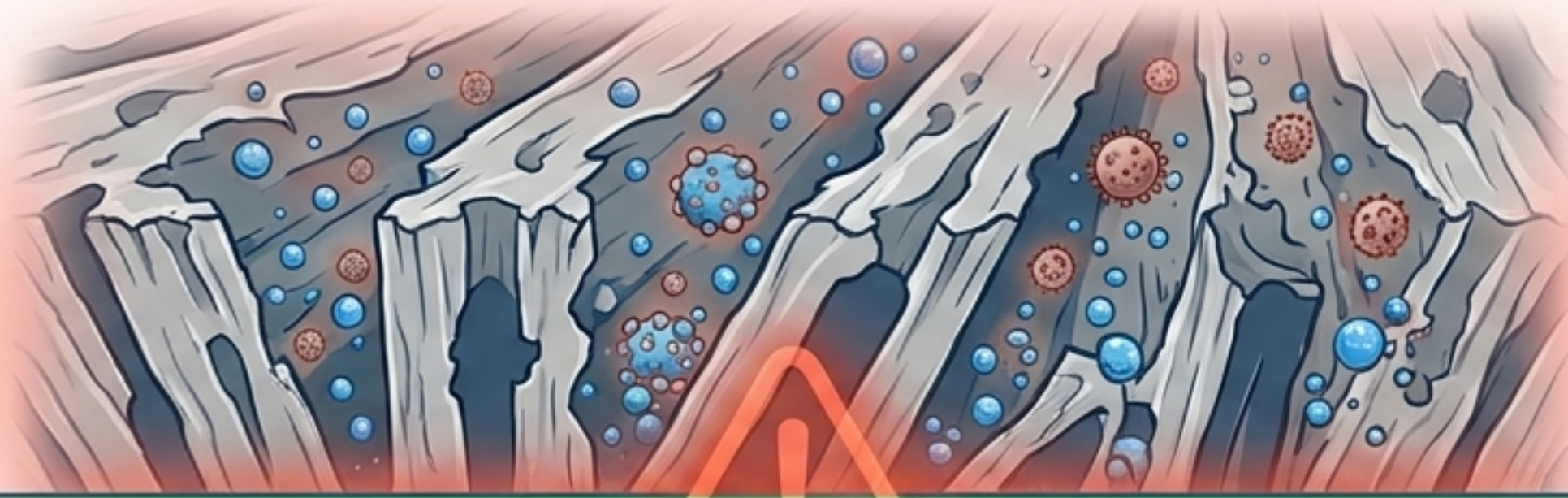
STEP 6: IN-DUCT AIR PURIFICATION

Sani-Effect Action: Integration of advanced UV-C and bipolar ionization technology into the HVAC system.

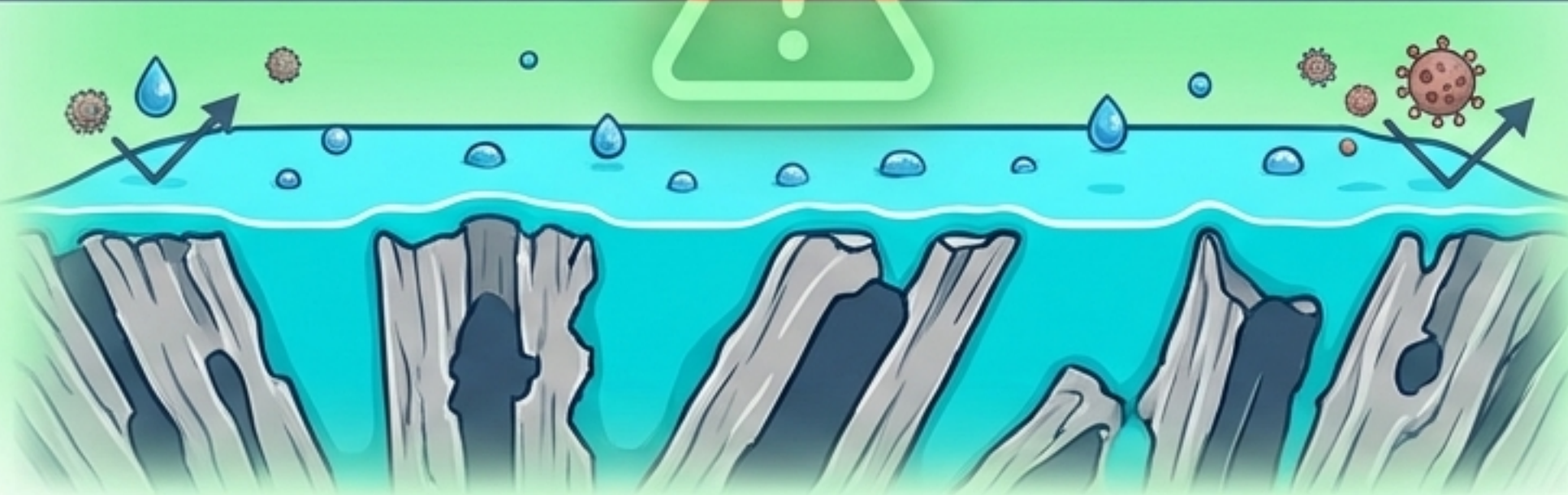
THE HIDDEN RISK IN NEW FIBERGLASS DUCTWORK

Explanation: Fiberglass materials are inherently porous and highly susceptible to moisture retention.

RAW POROUS
FIBERGLASS
(VULNERABLE)



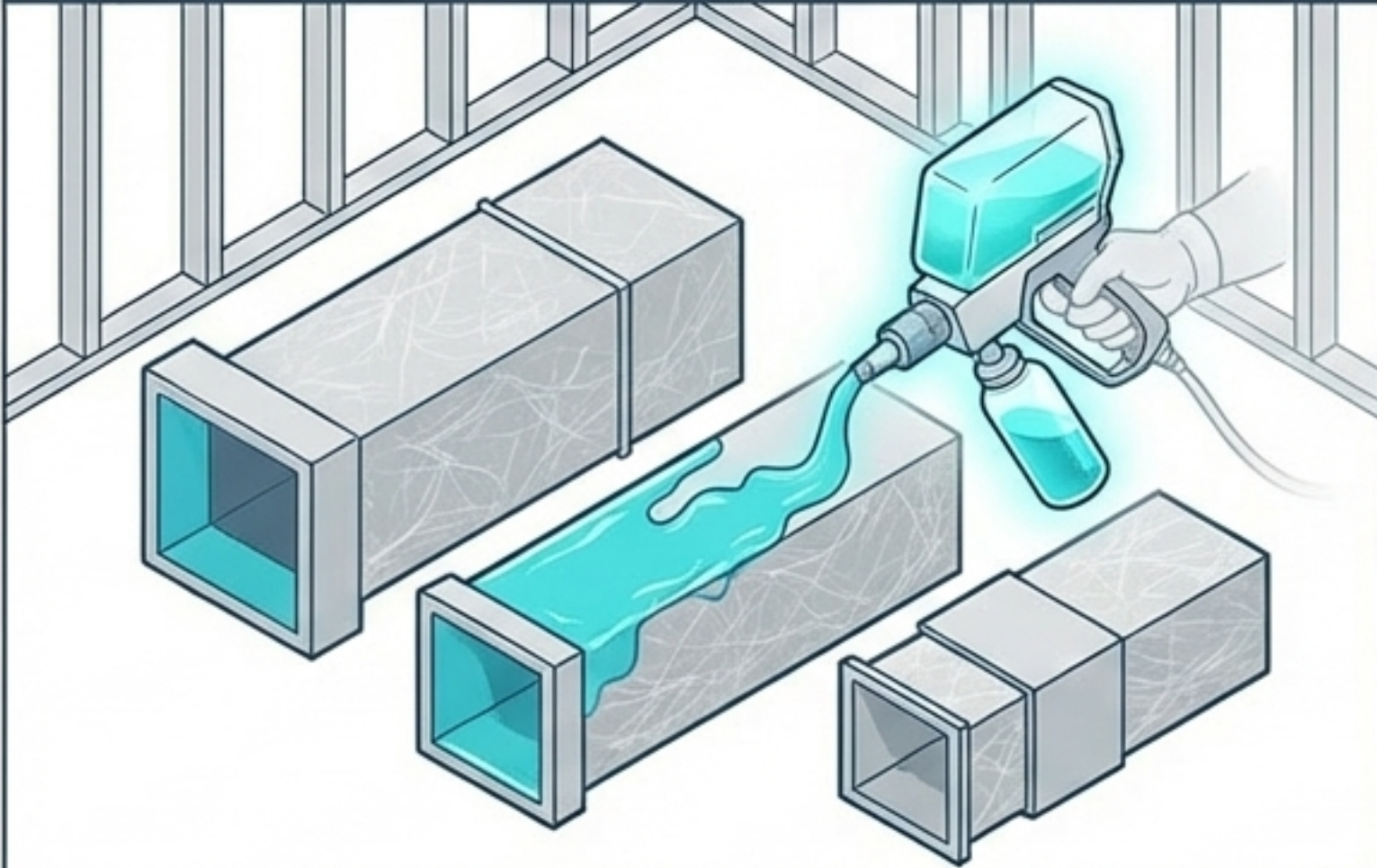
SANI-EFFECT
COATED
FIBERGLASS
(PROTECTED)



Client acknowledges that failure to apply Sani-Effect coating may leave porous ductwork vulnerable to future microbial growth.

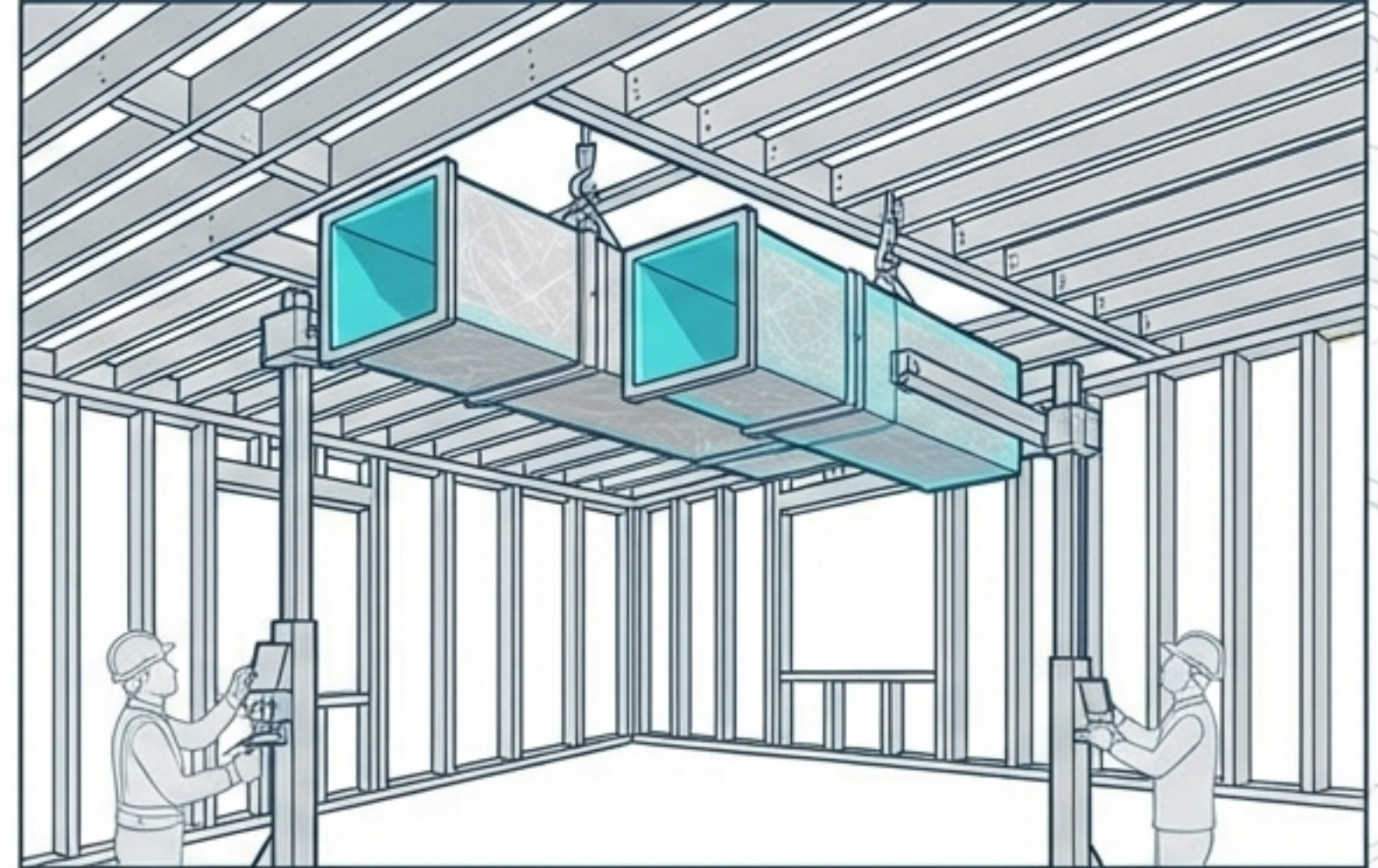
STEPS 3 & 4: DUCT DEFENSE AND ATMOSPHERIC PRE-TREATMENT

STEP 3: PROTECTIVE COATING



Sani-Effect applies mold-resistant coating to the interior of new fiberglass air ducts prior to final installation by the GC.

STEP 4: PRE-RECONSTRUCTION AIR TREATMENT



Conducted prior to drywall installation.

Utilizes advanced oxidizing agents to significantly reduce airborne particulates and microbial presence before the final build-out.

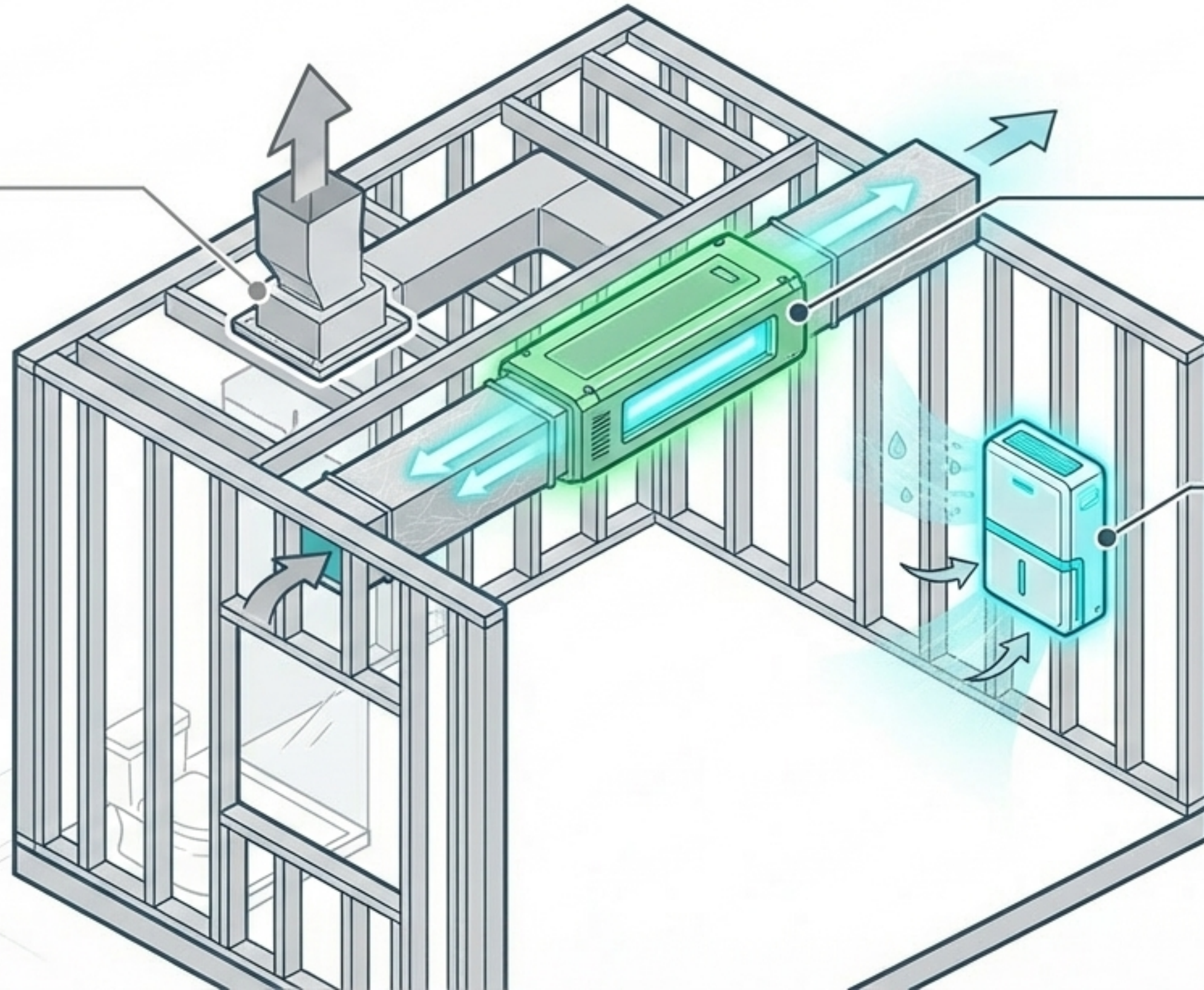
MAPPING THE ACTIVE ENVIRONMENTAL CONTROLS

Integrating continuous purification and humidity regulation directly into the structural footprint.

A: Bathroom
Exhaust Fan

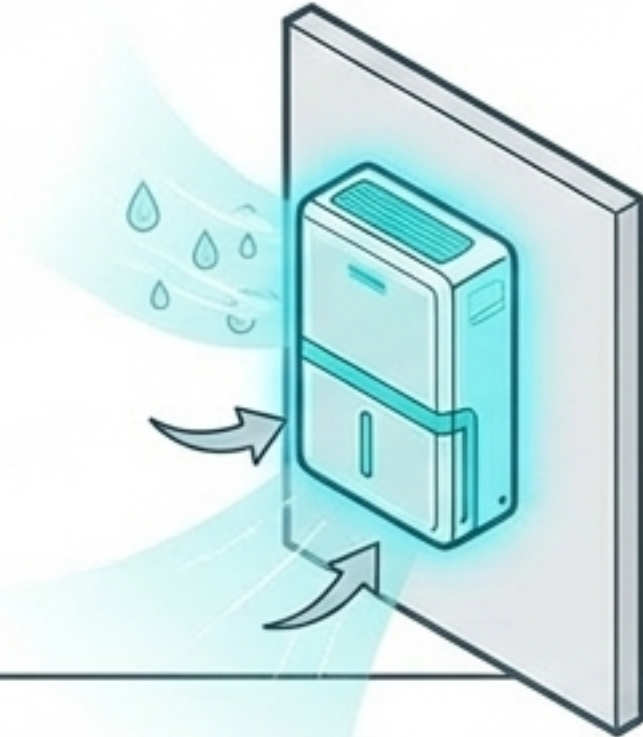
C: Sani AIR
DUCT GUARD

B: Sani ON-WALL
DEHUMIDIFIER



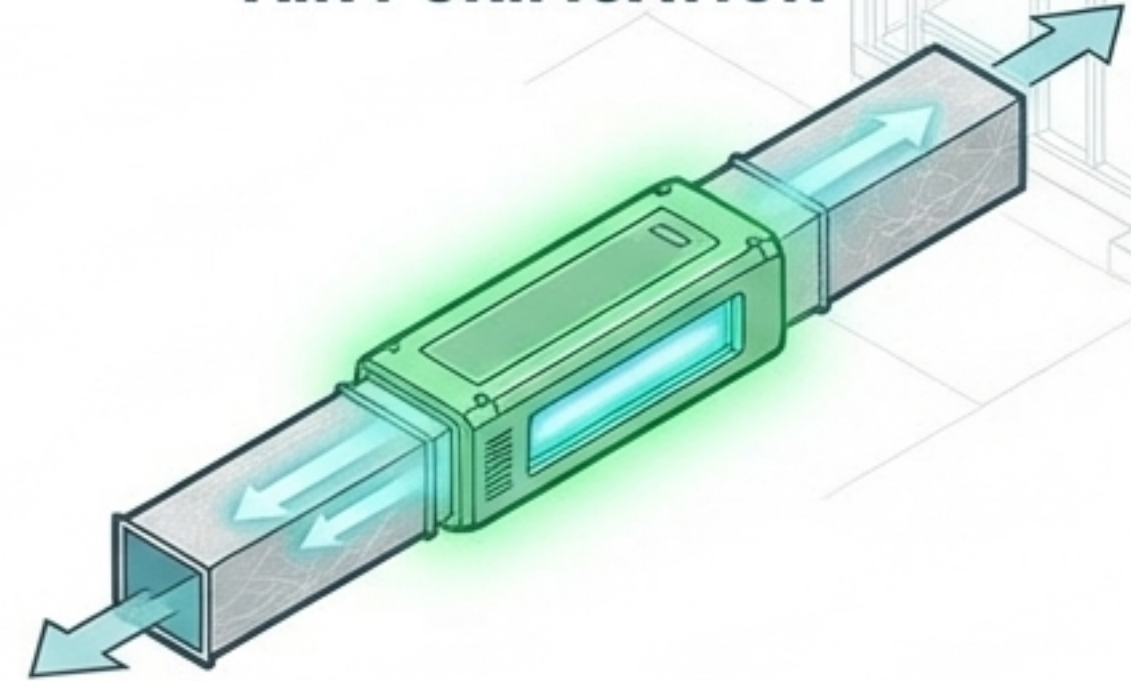
STEPS 5 & 6: MOISTURE CONTROL & CONTINUOUS IN-DUCT PURIFICATION

MOISTURE / HUMIDITY



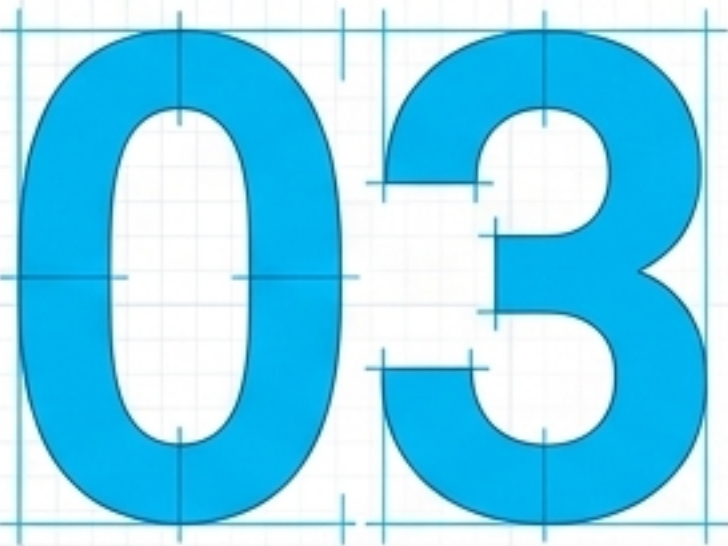
- ✓ SE recommends Sani ON-WALL DEHUMIDIFIER to maintain mold-preventing parameters.
- ✓ GC advises to install industry-standard bathroom exhaust fans.

AIR PURIFICATION



- ✓ SE supplies Sani **AIR DUCT GUARD** (utilizing ActivePure Technology to continuously reduce airborne/surface contaminants).
- ✓ GC is solely responsible for installing the unit directly into HVAC plenums.

Scope Limitation: Sani-Effect assumes no liability for GC's installation, wiring, structural integration, or HVAC compatibility.



PHASE 3 — FINAL POLISH & ONGOING MANAGEMENT

STEP 7: POST-RECONSTRUCTION FINAL POLISH

SE applies proprietary, non-toxic final surface treatments and performs a thorough, detailed sanitization of all areas.

GC completes final walk-through and handover of the clean, finished site to the property owner.

STEP 8: STANDALONE AIR QUALITY MANAGEMENT

SE installs standalone, intelligent air purifiers with continuous monitoring and Sani-Cloud integration for ongoing protection.

GC ensures reliable power outlets are available in strategic locations for the standalone units.

STEP 9: CERTIFICATE OF COMPLETION & TREATMENT

SE issues a formal, certified document verifying the successful execution of the Sani-Effect Clinical Blueprint.

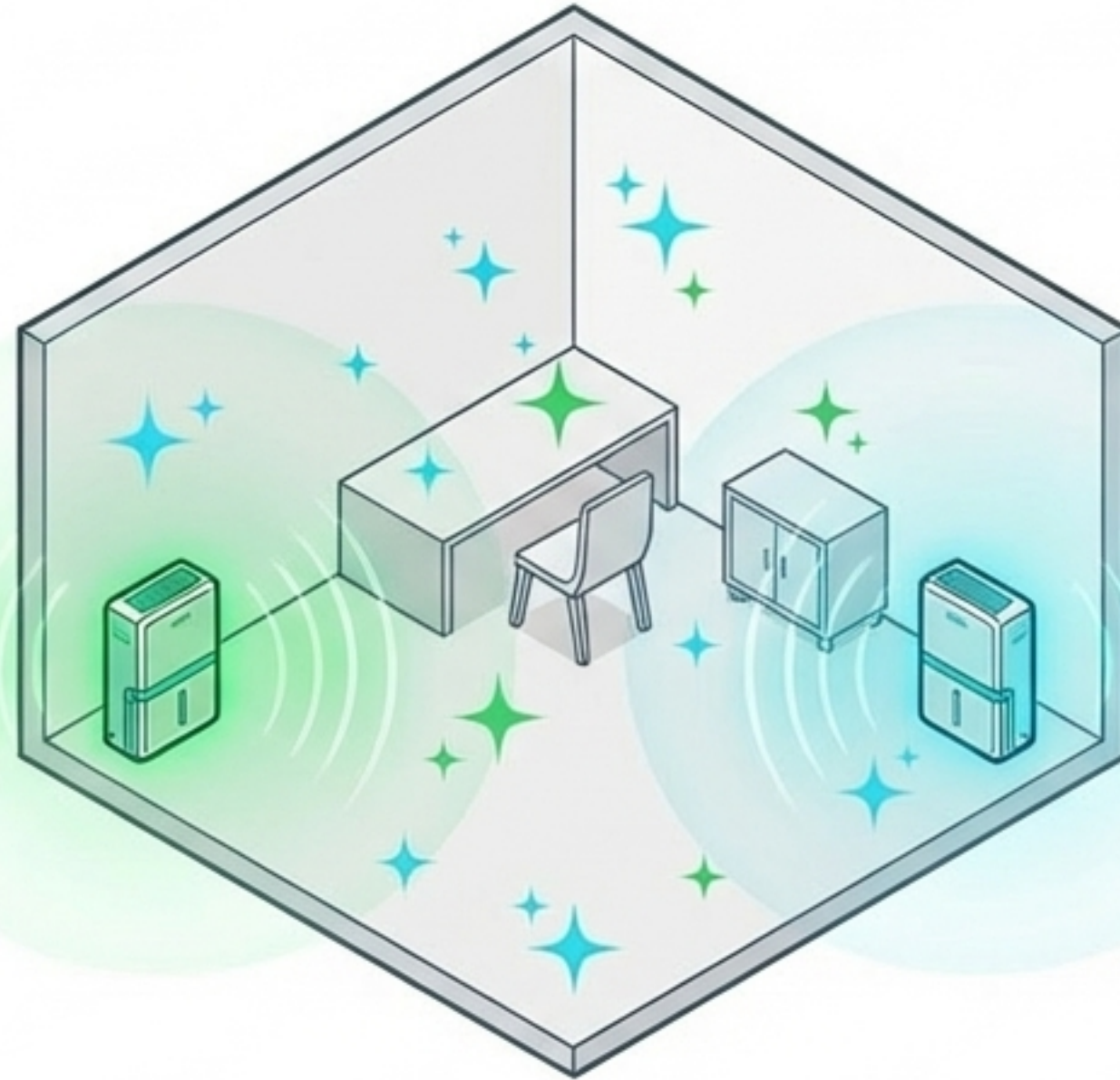
Property Owner receives comprehensive documentation and is trained on system maintenance.

STEPS 7 & 8: HYGIENIC POLISH AND CONTINUOUS STANDALONE FILTRATION

TRIGGER: Action begins upon written confirmation of all construction completion by the GC.

STEP 7: FINAL HYGIENIC CLEANING & TREATMENT

- ✓ Sani-Effect performs a final Hygienic Home Cleaning and treatment to substantially reduce residual construction dust and promote high-quality indoor air.
- ✓ GC completes final walk-through and handover of the clean, finished site.



STEP 8: STANDALONE AIR QUALITY FILTRATION

- ✓ Sani-Effect supplies two (2) portable **GUARDIAN AIR HEPA** filtration and active purification systems for continuous environmental treatment.
- ✓ GC ensures reliable power outlets are available in strategic locations for the standalone units.

STEP 9: OFFICIAL CERTIFICATION OF REMEDIATION

Upon successful completion of the integrated scope of work, Sani-Effect issues a formal guarantee of treatment.

**Property surfaces and air systems have been
treated by Sani-Effect Environmental,
incorporating ActivePure Technology for
advanced indoor air quality management.**



THE TRIPLE-THREAT DEFENSE SYSTEM



By combining permanent structural coatings, rigorous moisture control, and continuous active purification, the Sani-Effect protocol does more than remediate past damage. It engineers a comprehensive, ongoing environmental immune system for the property.