HEALTHCARE FACILITY HUB

ASHE ICRA 2.0 CONSTRUCTION BARRIER & PRECAUTION MATRIX

Site Field Reference • Carry-Onto-The-Job Standard
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STEP 1: CONSTRUCTION ACTIVITY TYPE

Type	Activity Description
Type A	**Inspection / Non-Invasive:** Visual checks, ceiling tile access (1–2 tiles for visual only), zero dust generation.
Type B	**Small Scale / Short Duration:** Minor dust, cutting drywall where localized HEPA/vacuum controls dust, cable pulls.
Type C	**Moderate to High Dust:** Demolition of non-load bearing partitions, sanding, floor tile removal, conduit in plenum.
Type D	**Major Demolition & Construction:** Structural work, complete ceiling removal, multi-shift projects, plumbing tie-ins.

STEP 2: PATIENT RISK GROUP

Group	Clinical Department / Area
Group 1 (Low)	Office areas, public lobbies, non-patient administrative corridors, exterior grounds.
Group 2 (Medium)	Outpatient clinics, physical therapy, radiology, non-invasive diagnostic suites, general admissions.
Group 3 (High)	Emergency departments, labor & delivery, pediatrics, post-anesthesia care (PACU), surgical step-down.
Group 4 (Highest)	Operating rooms, bone marrow transplant (BMT), oncology, burn units, ICUs, sterile processing (SPD).

STEP 3: ASHE ICRA 2.0 CLASS DETERMINATION MATRIX (TABLE 3)

Patient Risk Group	Type A (Inspection)	Type B (Small Scale)	Type C (Moderate/High Dust)	Type D (Major Construction)
Group 1 (Low Risk)	**Class I**	**Class II**	**Class II**	**Class III**
Group 2 (Medium Risk)	**Class I**	**Class II**	**Class III**	**Class IV**
Group 3 (High Risk)	**Class I**	**Class III**	**Class IV**	**Class V**
Group 4 (Highest Risk)	**Class III**	**Class IV**	**Class V**	**Class V**

Surrounding Area & Vibration Bump Rule (Table 4): Heavy demolition, structural vibration, or work affecting shared return-air plenums adjacent to Group 3 or Group 4 patients automatically bumps required containment up by **+1 Class** (e.g., Class III → Class IV; Class IV → Class V). Permits are mandatory for Class III, IV, and V.

STEP 4: MINIMUM ENGINEERING CONTROLS BY PRECAUTION CLASS (TABLE 5 SUMMARY)

CLASS I

- **Permit:** Not required.
- **Barrier:** None required; immediate dust suppression.
- **HVAC:** Maintain normal airflow. Replace ceiling tiles immediately.
- **Cleanup:** Clean area with damp cloth upon exit.

CLASS II

- **Permit:** Department notice / permit.
- **Barrier:** Drop cloths / HEPA capture tent. Walk-off adhesive mats.
- **HVAC:** Seal return diffusers during work.
- **Cleanup:** HEPA vacuum & wipe down surfaces with hospital disinfectant.

CLASS III

- **Permit:** Full ICRA permit required.
- **Barrier:** Airtight ≥6-mil poly or hard panels. Sealed ceiling & floor.
- **Negative Air: ≥-0.020" w.g.** (-2.5 Pa) continuous. Min **6–10 ACH**.
- **Exhaust:** Direct outside or HEPA-filtered internally. Daily smoke checks.

CLASS IV

- **Permit:** Formal permit & multi-dept sign-off.
- **Barrier:** Rigid to-deck barrier (fire-rated drywall/polycarb, NFPA 241).
- **Anteroom:** Mandatory sealed anteroom with separate negative pressure.
- **Negative Air: ≥-0.020" w.g.** with continuous manometer logging; **≥12 ACH**.

CLASS V

- **Permit:** Highest executive & IP sign-off.
- **Barrier:** Full critical containment. Double-chamber anteroom.
- **HVAC:** Total duct blanking; 100% exterior HEPA exhaust; **≥12 ACH**.
- **Closeout:** Decontaminate, 24-hr flush, terminal clean & cert before strike.

Surveyor Audit Rule: CMS and The Joint Commission evaluate whether containment documentation matches active jobsite practice. The physical barrier must maintain negative pressure continuously (logged via digital differential manometer); walk-off mats must be clean and dated; trash carts must be covered; and workers must de-gown/vacuum in anterooms before leaving Class IV/V enclosures.