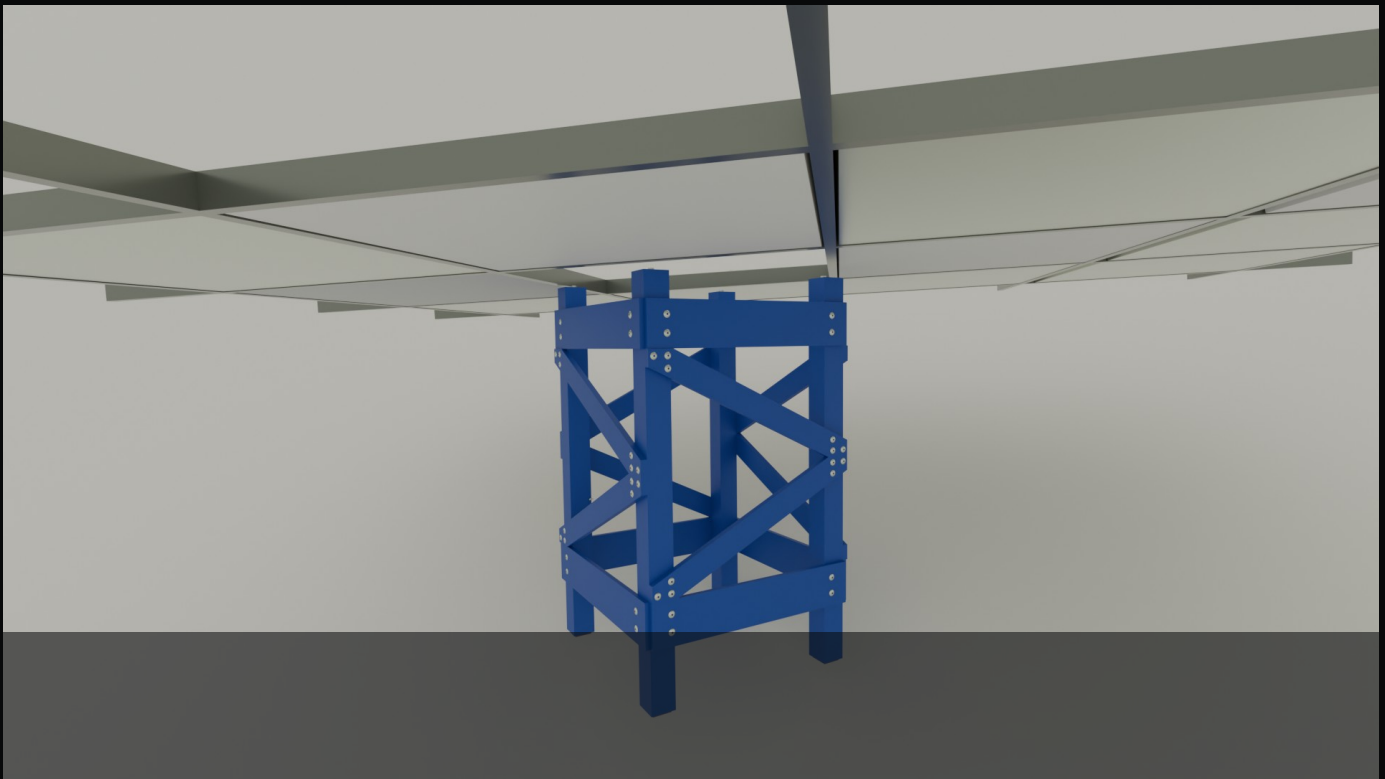




Drop-In Diamond Composite Pedestal Grid

PATENT PENDING

Turnkey subfloor reinforcement for AI, GPU, and liquid-cooled servers.
No concrete drilling. No planned downtime. No floor replacement.

5,000 lbs

Concentrated-load capacity

0.5g

Seismic design threshold

<2.5%

Plenum displacement

45 min

Typical bay install per 8 sq ft

CORE BENEFITS

- No concrete drilling required
- No airborne silica dust
- Install while servers stay online
- Factory-preassembled modules
- Lightweight composite construction
- Nonconductive · Nonmagnetic · Corrosion resistant
- V0 flame rated (UL94) — highest classification
- Highest-strength pultruded composite available

STRUCTURAL

Profile dimensions	4.000" x 1.665"
Moment of inertia	2.663 in ⁴
Concentrated-load capacity	5,000 lbs
Center-panel support pad	8" x 8" (64 in ²)

SEISMIC

Horizontal acceleration	0.5g
Connection safety factor	4×

MATERIAL

Construction	Highest-strength pultruded GFRP
Flexural str. (ASTM D790)	125,860 psi
Compressive (ASTM D695)	122,000 psi
Density (ASTM D792)	0.067 lb/in ³
Flame rating	UL94 V0
Conductivity	Electrically nonconductive
Corrosion resistance	Resistant
Magnetic properties	Nonmagnetic

AIRFLOW

Plenum volume displacement	< 2.5%
Open cross-section	> 46%
Pressure drop (10 rows)	0.045 in H ₂ O

INSTALLATION · 7 STEPS · ~45 MIN PER 8 SQ FT · NO CONCRETE DRILLING

- 01

Identify the equipment path or deployment area
- 02

Remove selected raised-floor panels
- 03

Position the preassembled module
- 04

Adjust and level from above
- 05

Secure the base connection to the slab
- 06

Replace the existing floor panels
- 07

Verify elevation and structural alignment

Schedule a Facility Assessment

info@elevate-cs.com · elevate-cs.com · Pennsylvania, USA

All values are engineering estimates. Final capacity and compliance should be confirmed per facility, jurisdiction, and applicable code.