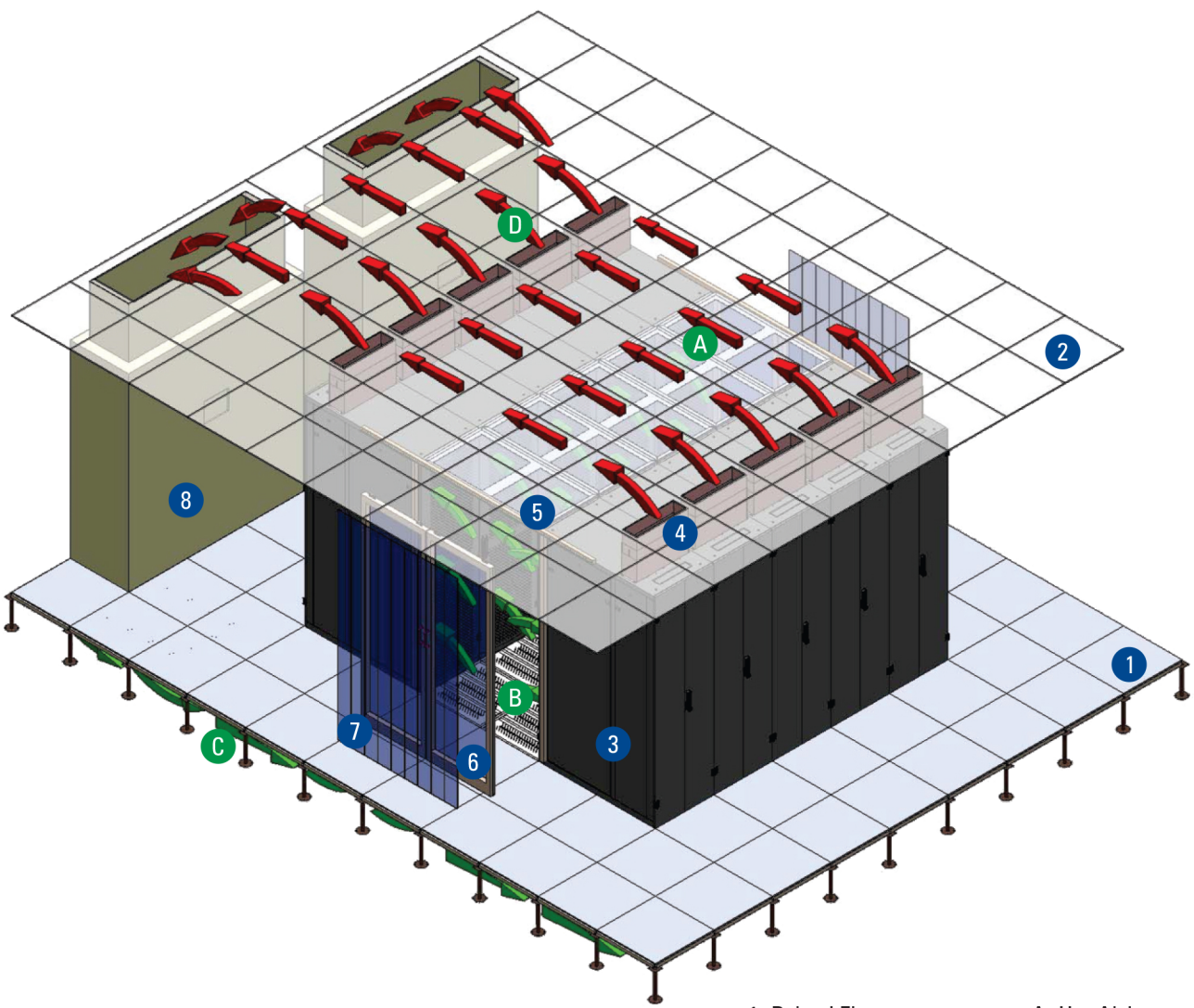
Design Concept - Horizontal Panel with Chimney

The CAC concept is achieved by enclosing both ends of the cold aisle and are closed using Swing / Sliding Doors or Blinds for cold air containment. In addition all cabinets are fitted with Plinth, Rack Side Thermal Sealing and Blanking Panels between the equipment, in this way the only route for the Cold air is through the equipment.

The Hot air returns to PAC through chimney above False ceiling and Plain Door Blocks the Hot air moving to other area. This concept is the best option as per NetRack.

In this concept Top panel is perpendicular to Floor & Installed on the rack Top panel.

Top panel is composite with metal and toughened glass / Poly carbonate top Panel for lighting in corridor area can have provision for FM 200 / NOVEC lines. Smoke and other required sensors as per data centre standards.



1. Raised Floor
2. False Ceiling
3. Rack
4. Chiminy
5. Top Panel
6. Swing / Sliding Doors
7. Corridor Blinds
8. PAC

A. Hot Aisle
B. Cold Aisle
C. Cold Air
D. Hot Air