

# CUSTOM DESIGN GUIDE

The Apex Isolation technical team will work closely with you to understand any classification, layout and compliance needs, and then will submit a comprehensive proposal with project details and application engineering drawings. Drawings are developed with a focus on efficiency, compliance and scalability.

When requesting a custom cleanroom design, use the below questionnaire as a guideline. Note: Apex Isolation may require a layout sketch in order to provide a proposal.

## ROOM LAYOUT

- Size
- Ante-Room Required
- Enclosure Height
- Ceiling Required
- Existing Ceiling Height

## CLASSIFICATION

- ISO Classification: \_\_\_\_\_
- Number of 2' x 4' Fan Filters
- Number of 2' x 4' Light Units

## CEILING COMPONENTS

- Lighting Units
- HEPA Fan Filter Unit
- Electrical Wiring Package

## TYPE OF ROOM

- Single Pass
- Recirculating:
  - Plenum
  - Plenum & Air Chases
  - Air Returns *(with Ducted HEPA Fan Filters by HVAC Contractor)*

## FRAMING

- Clear Anodized
- Epoxy Powder Coated

## AIR VENTING

- Standard ABS Sliding Grilles
- Louvered Grille
- Screen Mesh Grille
- Open Air Space
- Duct Collar

## ACCESS OPENINGS

- Pass-Through
- Talk-Through
- Sliding / Swinging Access Panel
- Iris Ports
- Glove Ports
- Conveyor Openings

## SUPPORT POSTS

- Electrical Post
- Plumbing Post

## STRUCTURAL CALCULATIONS

- Seismic Structure
- Seismic Calculations

## FLOOR & WALL ATTACHMENTS

- Perimeter Floor Angle *(In Lieu of Floor Cleats)*
- Floor Casters *(SIS-212 Only)*
- Leg Levelers *(SIS-212 Only)*
- 4" Base for Cove Flooring

## DOORS

- AirBlock™ Swing Door *(Single / Double)*
- Pro-Glide™ Sliding Door *(Single / Double)*
- AirBlock™ ABS Core Swing Door
- AirBlock™ Strip Door *(6", 8", 12" Strips)*

## INSERT MATERIAL

- Softwall *(AirLock / SIS 212 Only):*
  - PolySim™ *(Clear, Black, White)*
  - Standard Vinyl *(Clear, Frosted)*
  - Anti-Static Vinyl *(Clear, Frosted)*
  - Opaque *(White, Black)*
  - Tint *(Blue, Red, Amber, Charcoal Smoke)*
  - Other
- Hardwall:
  - Polycarbonate *(Clear)*
  - Polypropylene *(White)*
  - 50/50 Split *(Clear / White)*
  - ABS *(White / Black)*
  - Acrylic *(Clear)*
  - Aluminum *(White)*
  - Glass *(Clear)*
  - Other

## MONITORING SYSTEM

- Dual Magnehelic® Pressure Gauge

## DON'T KNOW WHERE TO START? TALK WITH AN EXPERT!

Apex Isolation has the expertise required to design and engineer your cleanroom to your application's specific requirements. Contact an Apex Isolation representative to get started: 949-558-2960 / sales@apexisolation.com