

TRANSITION TO RETURN AIR DUCTWORK SYSTEM MOUNTED TO THE TOP OF THE RETURN DUCT

RETURN DUCT INSTALLED ON THE BACK SIDE OF CLEANROOM WALL

TYPICAL AIR RETURN GRILLE LOCATION

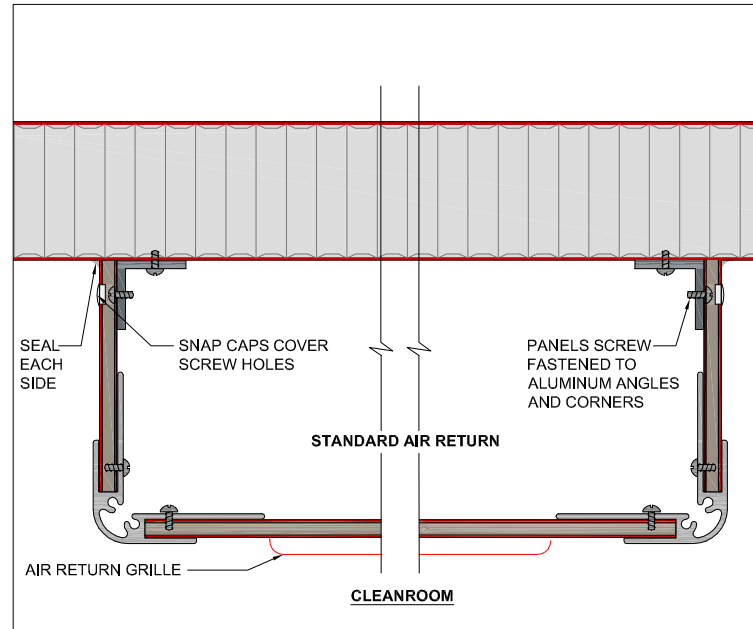
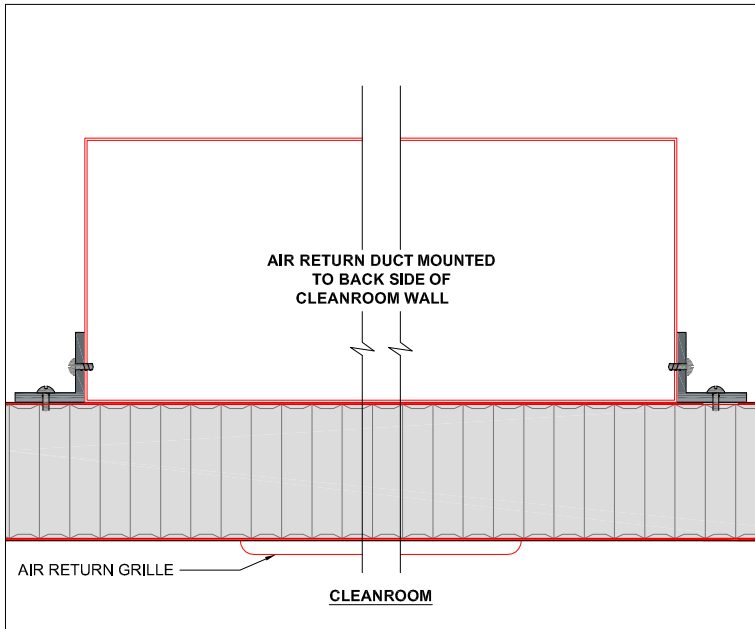
**FLUSH AIR RETURN**  
IDEALLY LOCATED WHERE THE CLEANROOM WALL IS THE PERIMETER OF THE FACILITY

**STANDARD AIR RETURN**

EXTRUDED ALUMINUM CORNER POST ACCEPTS 1/4" THICK WALL PANELS PAINTED WHITE TO MATCH MODULAR WALL PANELS

ALL JOINTS SEALED WITH SPECIAL CAULKING AFTER INSTALLATION

TYPICAL AIR RETURN GRILLE LOCATION



**STANDARD AIR RETURN:**

- A- STANDARD WALL HEIGHT: 106"
  - B- AIR RETURN WIDTH: 48"
  - C- AIR RETURN DEPTH: 6"
- NOMINAL CAPACITY UP TO 1800 CFM.

**OPTIONAL AIR RETURN SIZES**

TYPICAL AIR RETURN SIZE (DIMENSION A: AIR RETURN WIDTH)	GRILLE SIZE (ACTIVE FACE)		CAPACITY (CFM)
	W	H	
12"	10"	12"	500
24"	22"	12"	1,000
36" *	32"	12"	1,500

\*MAXIMUM WIDTH FOR A SINGLE AIR RETURN ALONG A STRAIGHT SECTION OF WALL.

**GENERAL NOTES:**

1. STATIC PRESSURE AT TOP OF WALL (NOT INCLUDING TAKE-OFF COLLAR), APPROXIMATELY 0.15" WG
2. THE OPTIONAL AIR RETURNS ARE ALSO AVAILABLE AS SHOWN IN DETAIL A, i.e. LOCATED WHERE REQUIRED ALONG STRAIGHT WALL SECTION.
3. THESE FULL HEIGHT AIR RETURNS MAY ALSO BE USED AS LARGE SERVICE CHASES OR TO CLOSE AROUND COLUMNS.

**NOTES FOR STANDARD AIR RETURNS:**

1. ALL EXPOSED SURFACES FINISHED IN 2 COAT PPG DURANAR, (COLOUR: WHITE) TO PROVIDE OPTIMUM HARDNESS, MAR-RESISTANCE AND CHEMICAL RESISTANCE.
2. PANEL DIMENSIONS:
  - HEIGHT: TO SUIT
  - PANEL WIDTH: MAXIMUM 48"
  - PANEL THICKNESS: STANDARD 1/4"

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**INTRODUCTION TO MODULAR CLEANROOMS AND CONTAINMENT FACILITY SYSTEMS**

Drawing Title: **FULL HEIGHT AIR RETURN/SERVICE CHASE: FLUSH TYPE AND STANDARD TYPE**

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