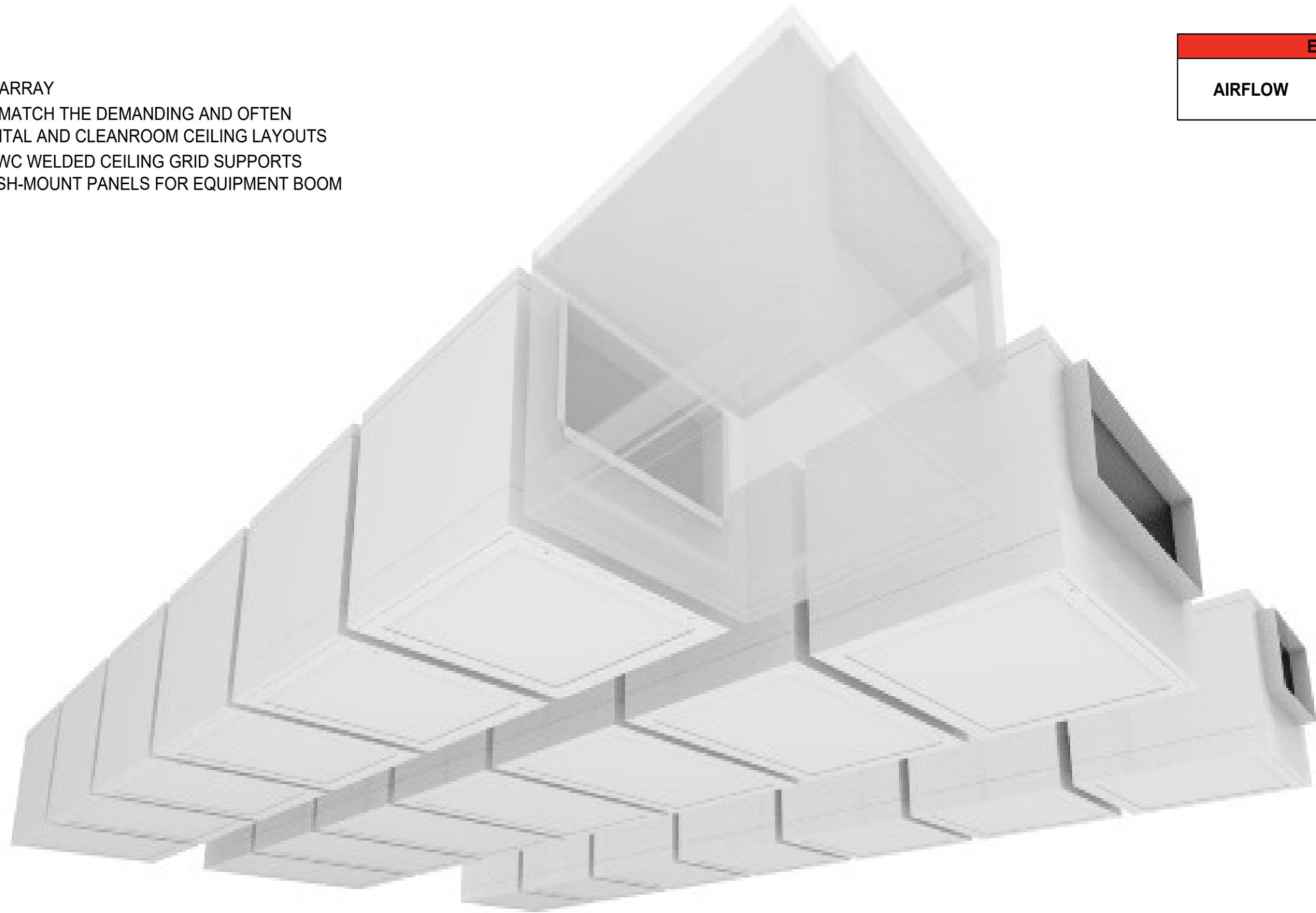


HGP

HOSPITAL GRADE COMMON PLENUM SYSTEM EXAMPLE SYSTEM FOR A HYBRID OR/IMAGING SUITE

FEATURES:

- LAMINAR FLOW DIFFUSER ARRAY
- FULLY CUSTOMIZABLE TO MATCH THE DEMANDING AND OFTEN CROWDED MODERN HOSPITAL AND CLEANROOM CEILING LAYOUTS
- OPTIONAL PERIMETER HGWC WELDED CEILING GRID SUPPORTS ACCESS PANELS AND FLUSH-MOUNT PANELS FOR EQUIPMENT BOOM INTEGRATION



EXAMPLE SYSTEM		
AIRFLOW	2500	CFM
	20	ACH

price | **CRITICAL ENVIRONMENTS**

Project:

275014

Revision: 0

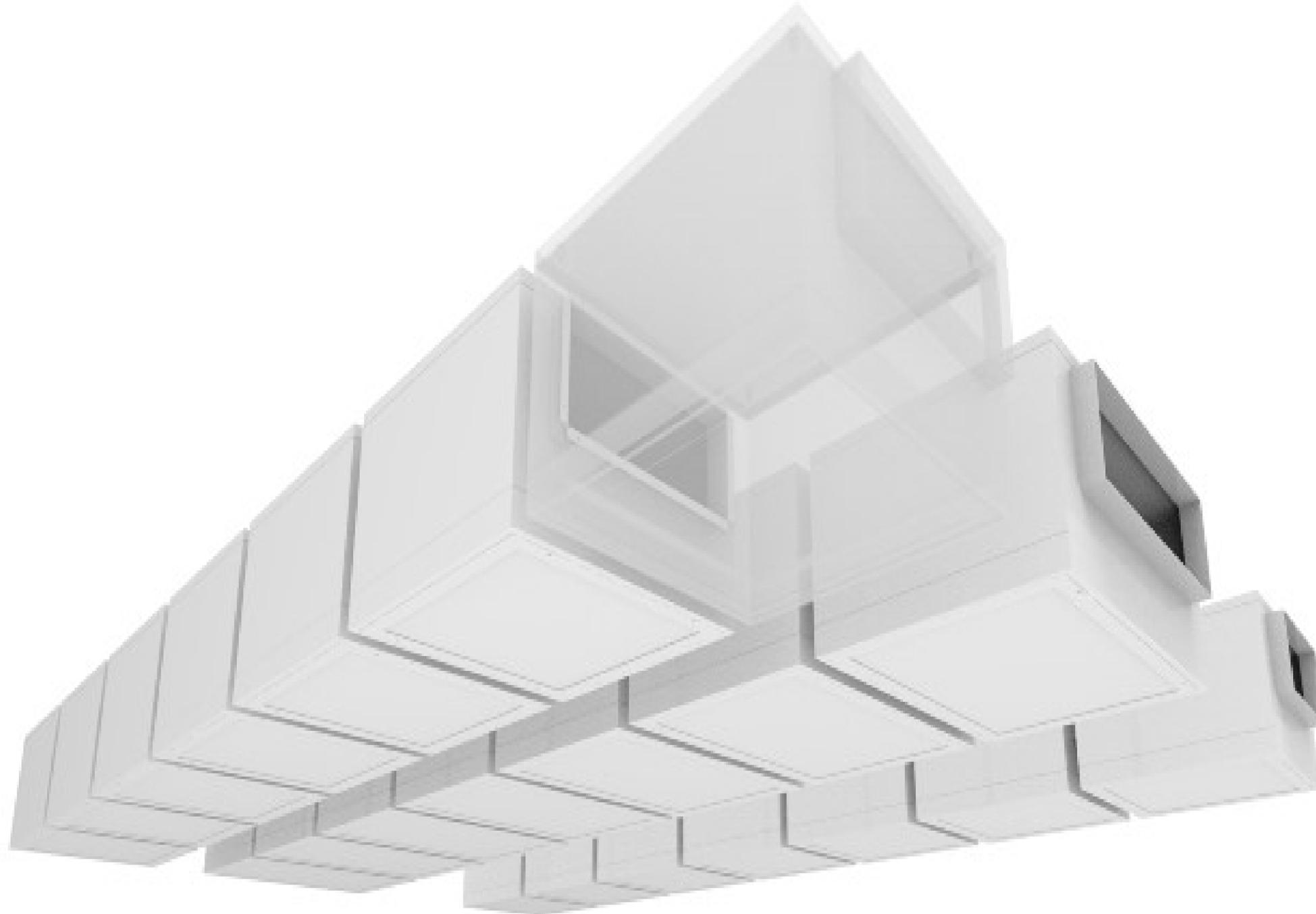
04-28-2023



HOSPITAL GRADE COMMON PLENUM SYSTEM 3D INTERACTIVE MODEL - HYBRID OR/IMAGING SUITE

ORDER OF INSTALLATION (CLICK BUTTONS TO TOGGLE VIEWS)

- CEILING LEVEL SUPPORT STRUT**
- HGP**
(View A)
- PLENUM MANIFOLD**
(View A)
- PLENUM MANIFOLD**
(View B)
- HGP**
(View B)
- HGP**
(View C)
- HGWC CEILING GRID**
(View A)
- HGWC CEILING GRID**
(View B)
- CP-SC CEILING PANELS**
- U-CHANNELS**
- PERIMETER HALF TEE**
- MEDICAL EQUIPMENT SUPPORT RAILS**
(by Others)
- CLOSURE STRIP**
- FINAL INSTALLATION**



STRUCTURAL COMPONENTS (CLICK BUTTONS TO TOGGLE VIEWS)

- PRICE SUPPLIED COMPONENTS**
- CEILING LEVEL SUPPORT STRUT & MEDICAL EQUIPMENT SUPPORT RAILS**
(by Others)
- SECONDARY SUPPORT STRUT**
(by Others)
- VERTICAL & ANGULAR SUPPORT STRUT**
(by Others)
- BUILDING STRUCTURE**
(by Others)
- ROOMSIDE VIEW**
- ROOMSIDE VIEW WITH RCP**
(View A)
- ROOMSIDE VIEW WITH RCP**
(View B)

**CLICK IMAGE TO
ACTIVATE 3D PDF**



Project:		
275014	Revision: 0	04-28-2023

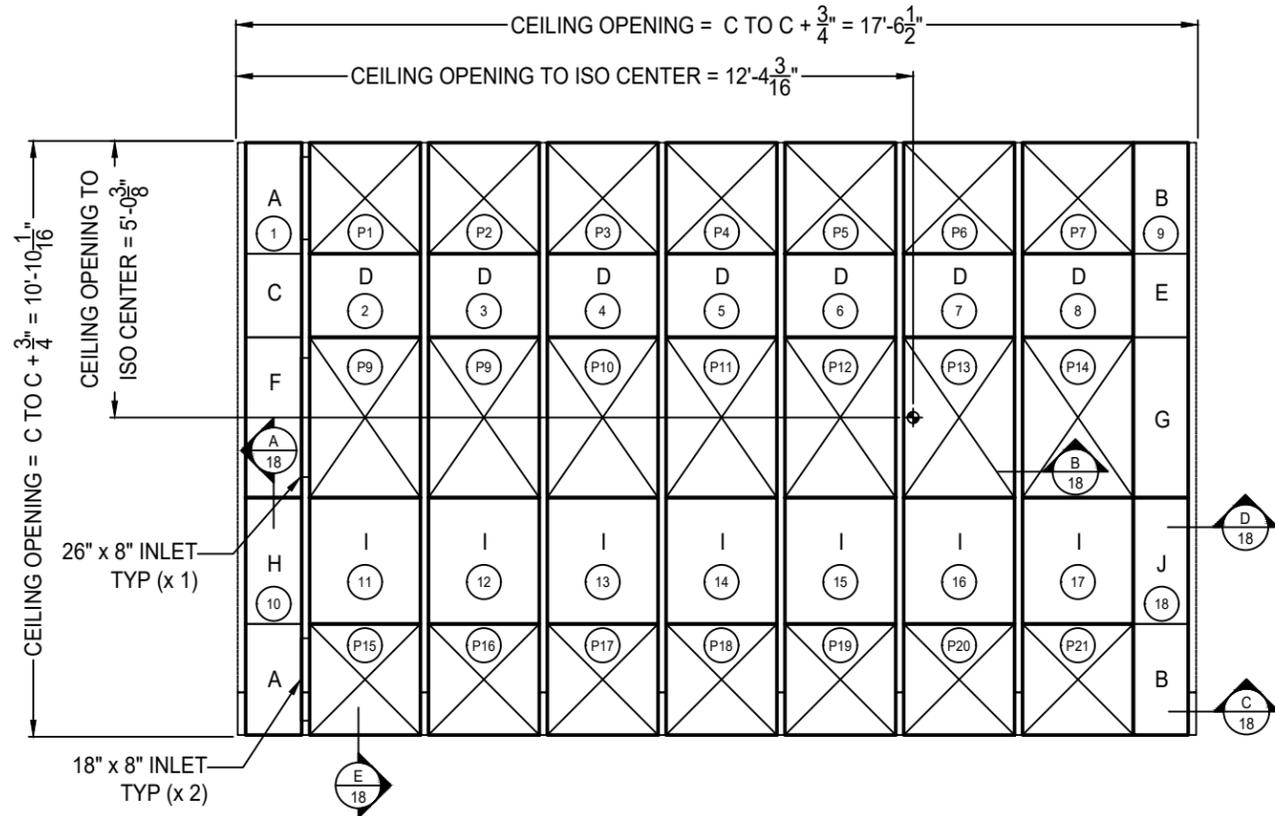
- USE THE SCROLL WHEEL TO ZOOM
- HOLD DOWN THE LEFT MOUSE BUTTON TO ROTATE
- HOLD DOWN CTRL AND LEFT MOUSE BUTTON TO MOVE

BOOM SUPPORT PLATE AND SUPPORT TO STRUCTURE ARE DESIGNED, PROVIDED, AND INSTALLED BY OTHERS

HGP

HOSPITAL GRADE COMMON PLENUM SYSTEM

REFLECTED CEILING PLAN - HYBRID OR/IMAGING SUITE

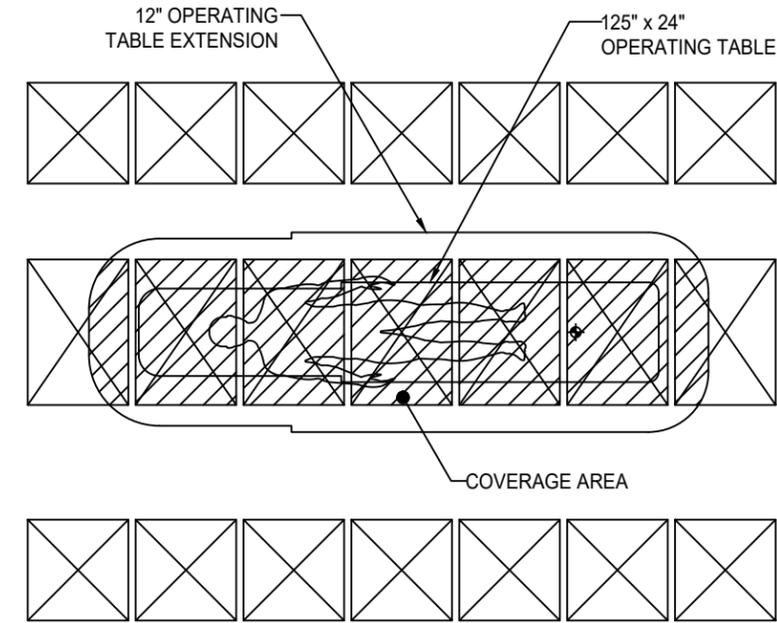


USA AREA = 98 sq. ft. HGCW AREA = 91 sq. ft.

U CHANNEL INTERNAL TRIM PIECE	HGCW LOOSE HALF TEE PERIMETER TRIM PIECE	USA - ULTRASUITE MODULES	SC - SOLID CORE ACCESS PANELS
1.75 x 9.312 (x9)	120" (x8)	24 x 24 (x 14) 24 x 35 (x 7)	A: 12.1 x 24.0 (x2) F: 12.1 x 34.6 (x1) B: 11.9 x 24.0 (x2) G: 11.9 x 34.6 (x1) C: 12.1 x 18.1 (x1) H: 12.1 x 27.3 (x1) D: 18.1 x 24.0 (x7) I: 24.0 x 27.3 (x7) E: 11.9 x 18.1 (x1) J: 11.9 x 27.3 (x1)

- B12 STANDARD WHITE FINISH
- PANEL CUTOUTS FOR BOOMS DONE IN FIELD BY OTHERS
- THE CEILING IS FACTORY PREMANUFACTURED TO SIZES AND TOLERANCE +/- $\frac{1}{16}$ "
- SITE ADJUSTMENTS TO PERIMETER SOFFITS AND/OR DRYWALL MAY BE REQUIRED AND ARE THE RESPONSIBILITY OF THE INSTALLER
- ASHRAE 170 VERIFICATION IS SHOWN TO ASSIST IN PROJECT COORDINATION. FINAL ASHRAE 170 COMPLIANCE, AS WELL AS COMPLIANCE WITH ALL APPLICABLE LOCAL CODES AND REQUIREMENTS REMAINS THE RESPONSIBILITY OF THE EOR OR INSTALLER ON THE PROJECT

ASHRAE 170-2021 TABLE COVERAGE VERIFICATION - HYBRID OR/IMAGING SUITE



THIS LAYOUT COMPLIES WITH ASHRAE 170-2021 7.4.1.b.

ASHRAE 170-2021 7.4.1.a. COMPLIANCE AIRFLOW RANGE	ASHRAE 170-2021 7.4.1.b. COMPLIANCE
2500 - 3400 CFM BASED ON 98 SQFT	29% OF THE 12" OPERATING TABLE EXTENSION USED FOR NON DIFFUSER USES

ASHRAE 170-2021

- 7.4.1.a. - THE AIRFLOW SHALL BE UNIDIRECTIONAL, DOWNWARDS, AND THE AVERAGE VELOCITY OF THE DIFFUSERS SHALL BE 25 TO 35 CFM/SQFT (127 TO 178 L/S/SQM). THE DIFFUSERS SHALL BE CONCENTRATED TO PROVIDE AN AIRFLOW PATTERN OVER THE PATIENT AND SURGICAL TEAM.
- 7.4.1.b. - THE COVERAGE AREA OF THE PRIMARY SUPPLY DIFFUSER ARRAY SHALL EXTEND A MINIMUM OF 12 IN. (305 mm) BEYOND THE FOOTPRINT OF THE SURGICAL TABLE ON EACH SIDE. WITHIN THE PORTION OF THE PRIMARY SUPPLY DIFFUSER ARRAY THAT CONSISTS OF AN AREA ENCOMPASSING 12 IN. (305mm) ON EACH SIDE OF THE FOOTPRINT OF THE SURGICAL TABLE, NO MORE THAN 30% OF THIS PORTION OF THE PRIMARY SUPPLY DIFFUSER ARRAY AREA SHALL BE USED FOR NON DIFFUSER USES SUCH AS LIGHTS, GAS COLUMNS, EQUIPMENT BOOMS, ACCESS PANELS, SPRINKLERS, ETC.



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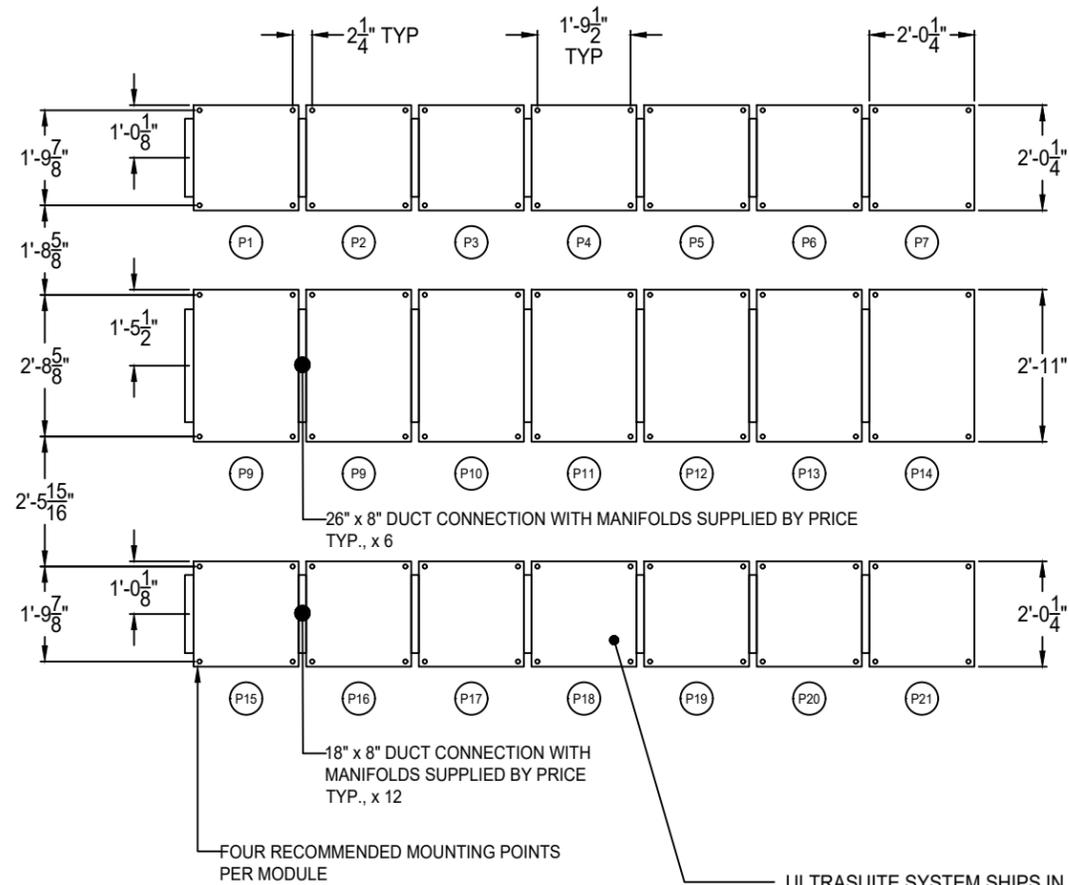
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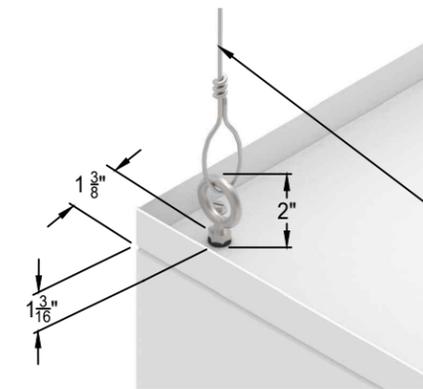
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HGP

HOSPITAL GRADE COMMON PLENUM SYSTEM HGP SHIP SECTION BREAKDOWN & HANGING LOCATIONS - HYBRID OR/IMAGING SUITE

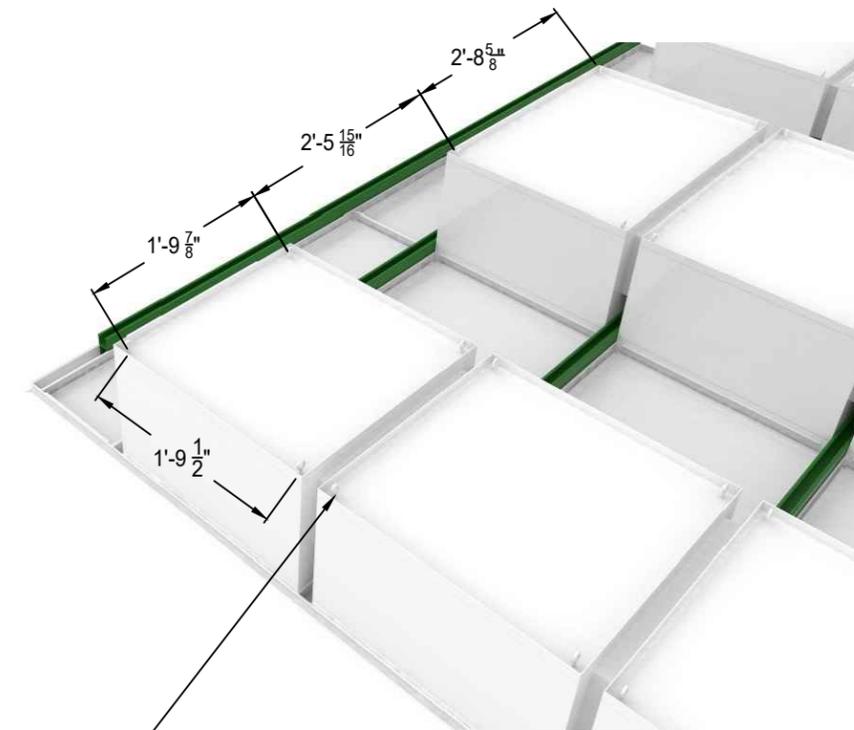


ULTRASUITE SYSTEM SHIPS IN 21 SECTIONS DUE TO CEILING LEVEL SUPPORT STRUT. COMMON PLENUM IS CREATED WITH FIELD INSTALLED MANIFOLD CONNECTIONS.



TYPICAL EYEBOLT LOCATION

HGP SECTIONS TO BE HUNG WITH PRE-STRESSED 12 GA. HANGER WIRE TO SLAB OR STRUCTURAL STEEL ABOVE THE CEILING ACCORDING TO ASTM C636, OR LOCAL BUILDING CODES (AS APPLICABLE)



TYPICAL HANGER WIRE SPACING

EACH ULTRASUITE MODULE COMES WITH 4 EYE BOLTS FOR HANGING. PRICE RECOMMENDS HANGING EACH UNIT INDIVIDUALLY WITH THE FOUR RECOMMENDED MOUNTING POINTS PER MODULE



Project:

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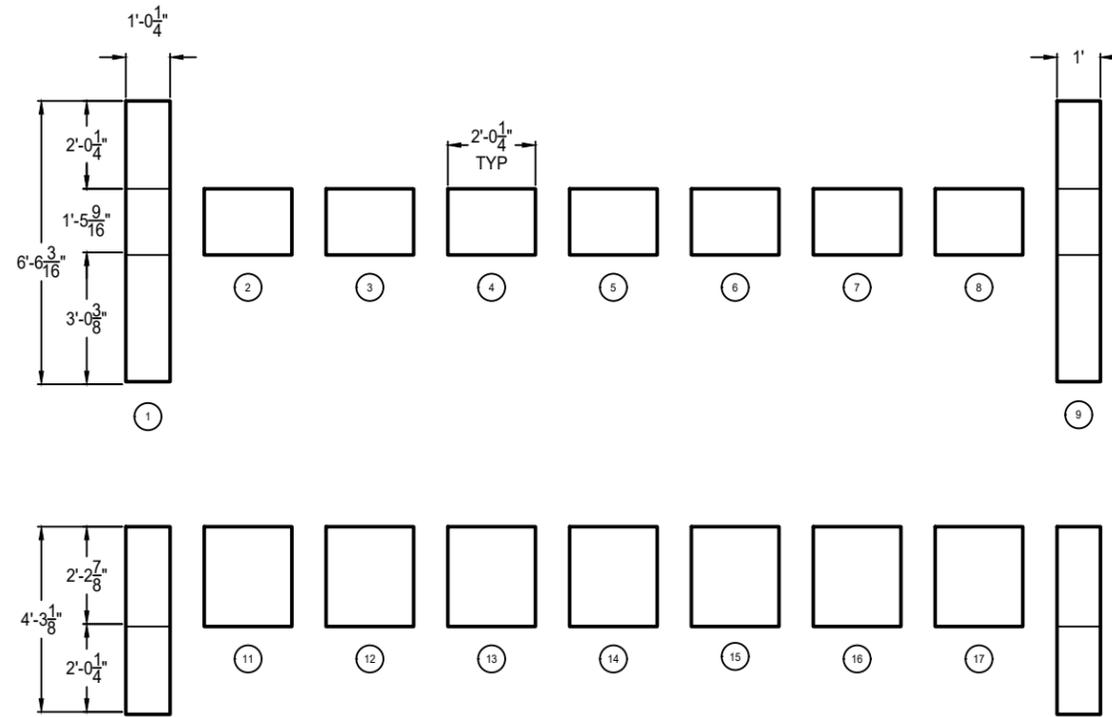
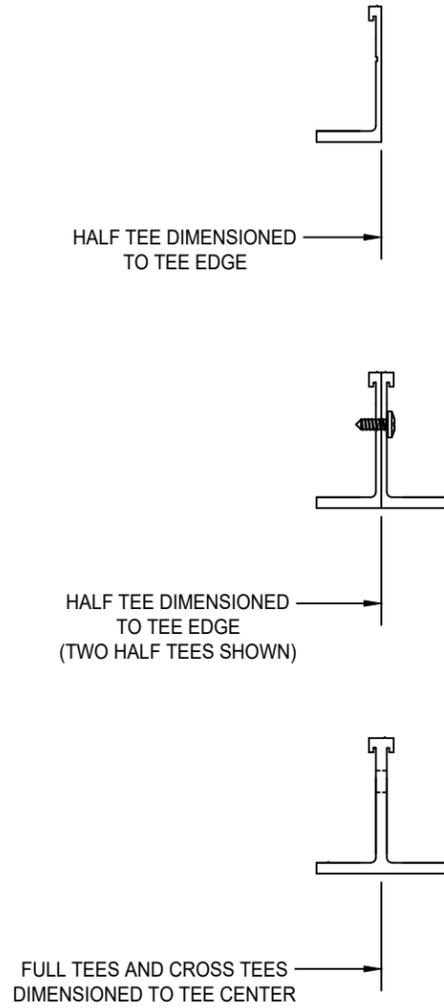
Revision: 0

04-28-2023

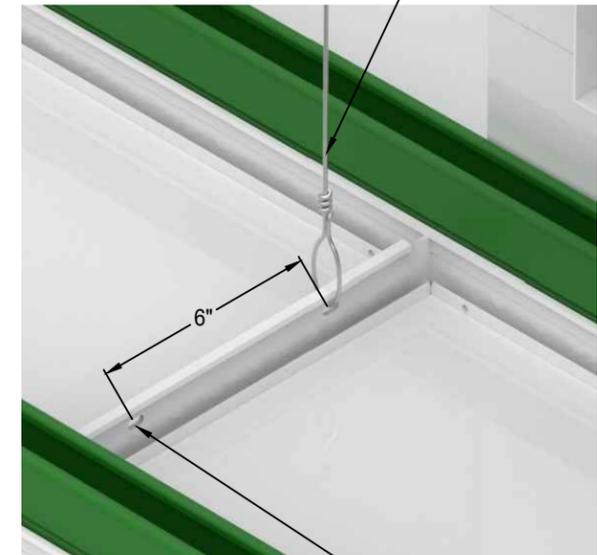
- ULTRASUITE SHIPS IN FACTORY WELDED SHIP SECTIONS TO BE FASTENED TOGETHER IN THE FIELD BY OTHERS
- MOUNTING LOCATIONS ARE SHOWN FOR REFERENCE ONLY. EXACT MOUNTING LOCATIONS TO BE DETERMINED BY THE EOR OR INSTALLER ON THE PROJECT AND MUST COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.

HGP

HOSPITAL GRADE COMMON PLENUM SYSTEM HGWC SHIP SECTION BREAKDOWN & HANGING DETAILS - HYBRID OR/IMAGING SUITE



TYPICAL HANGER WIRE LOCATION

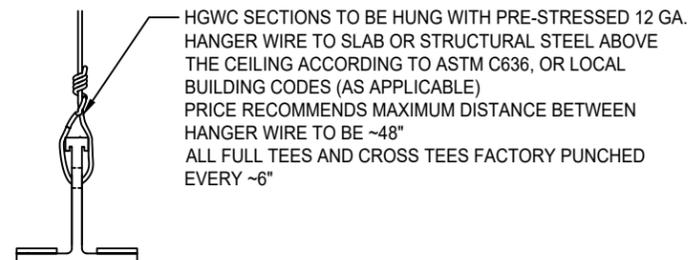


HGWC SECTIONS TO BE HUNG WITH PRE-STRESSED 12 GA. HANGER WIRE TO SLAB OR STRUCTURAL STEEL ABOVE THE CEILING ACCORDING TO ASTM C636, OR LOCAL BUILDING CODES (AS APPLICABLE)

EACH HGWC FULL TEE & CROSS TEE COME WITH PRE-PUNCHED SLOTS EVERY 6" PRICE RECOMMENDS HANGING SYSTEM EVERY ~4' AS REQUIRED



- THE HGWC GRID IS SUPPLIED IN MULTIPLE FACTORY ASSEMBLED SECTIONS NO LARGER THAN 10'x4'
- THE CEILING IS FACTORY PRE-MANUFACTURED TO SIZES AND TOLERANCE +/- 1/16"



PRICE | **CRITICAL ENVIRONMENTS**

Project:

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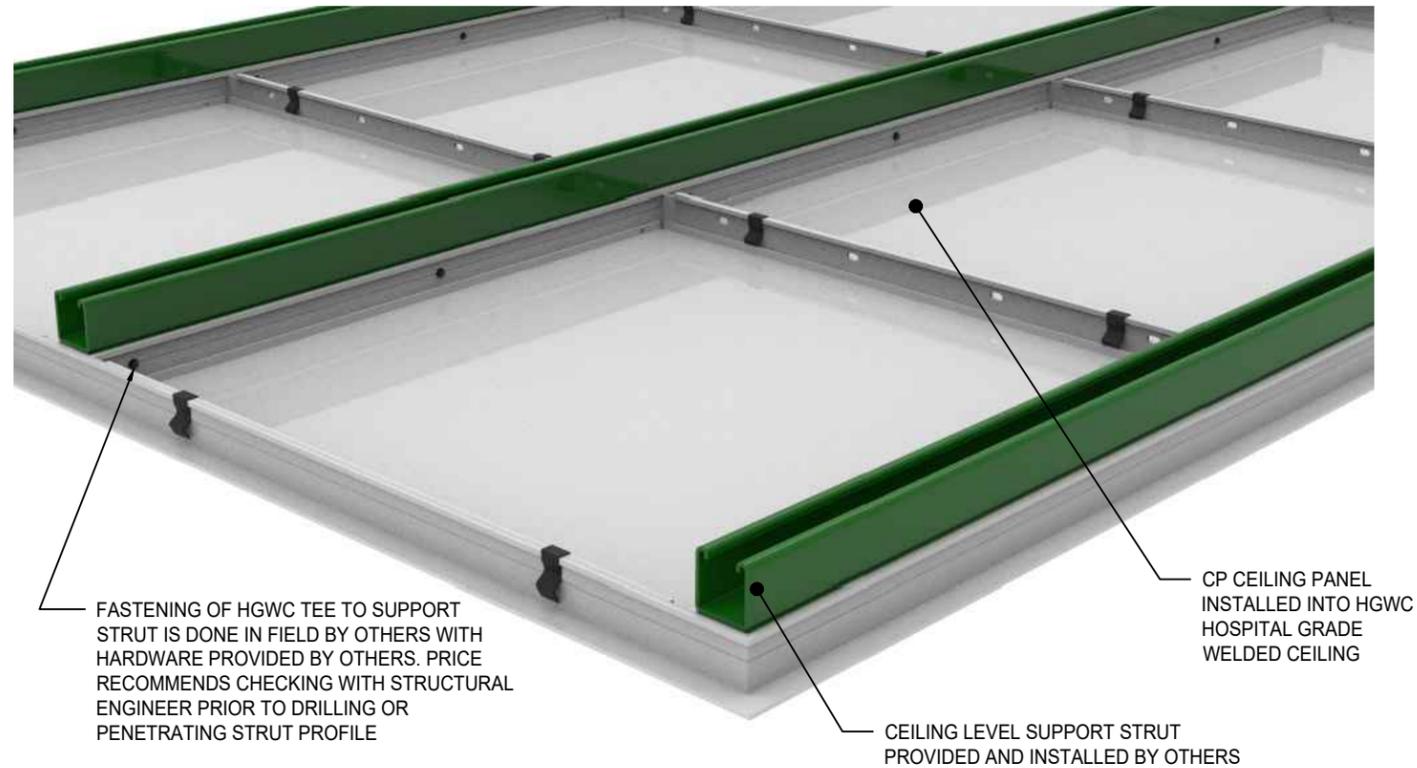
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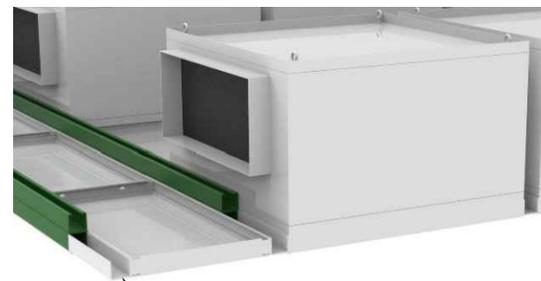
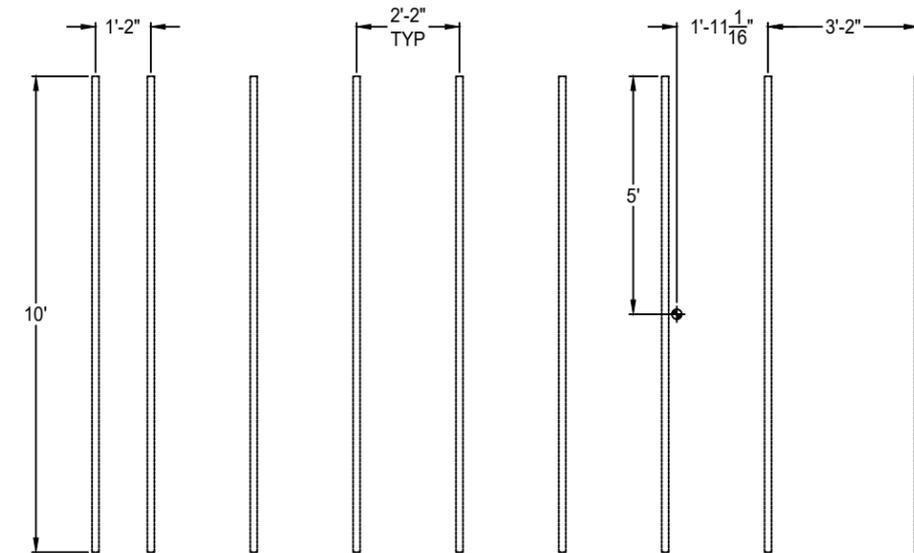
HGP

OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

CEILING LEVEL SUPPORT STRUT INTEGRATION DETAIL



CEILING LEVEL SUPPORT STRUT LAYOUT - HYBRID OR/IMAGING SUITE

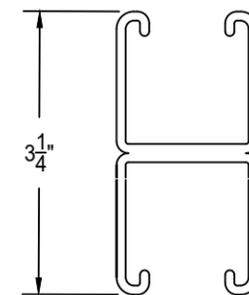
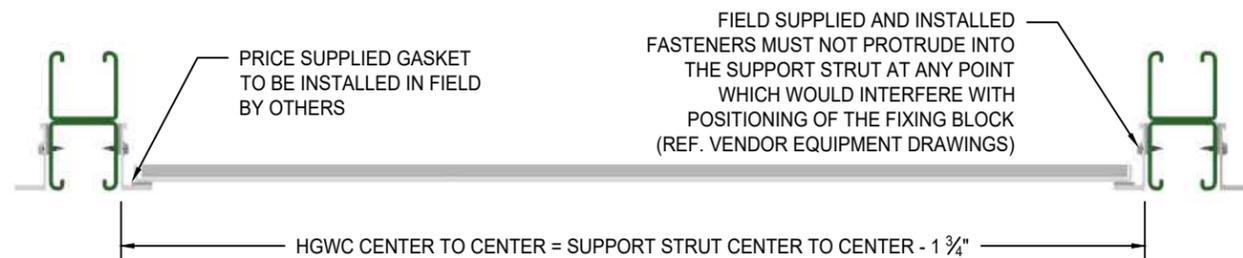


PRICE SUPPLIED U-CHANNEL FILL PIECE COMPLETES CEILING WHEN GRID SECTIONS EXTEND BEYOND SUPPORT STRUT



PRICE SUPPLIED ALUMINUM CLOSURE STRIP SNAPS INTO BOTTOM OF SUPPORT STRUT TO FINISH CEILING

CEILING LEVEL SUPPORT STRUT = 90 ft.



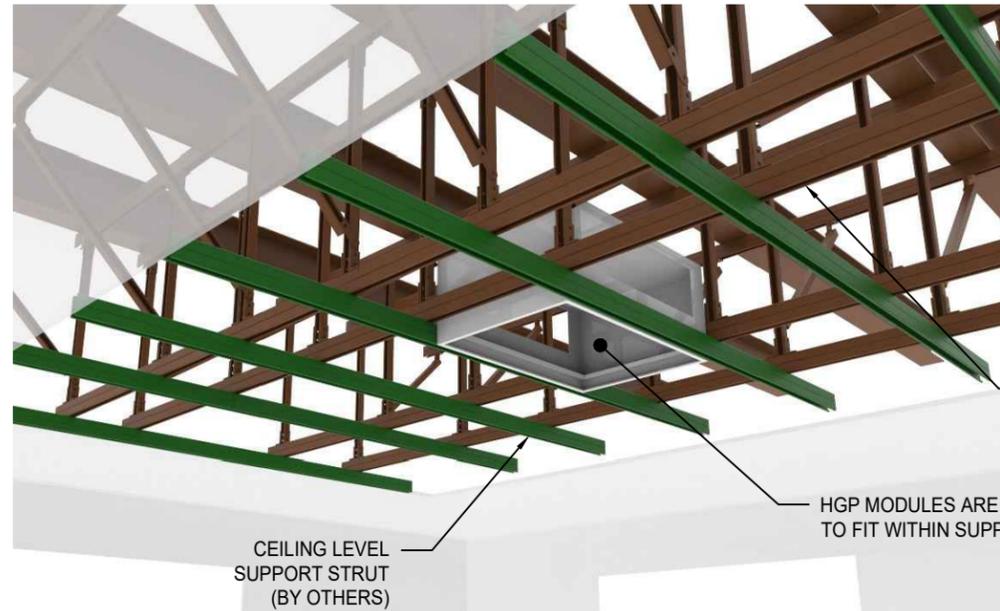
CEILING LEVEL SUPPORT STRUT HEIGHT, GC/AHJ TO COORDINATE, AND ADVISE PRICE OF ANY DISCREPANCIES OR DEVIATIONS

- CEILING SYSTEM SUPPORT STRUT GRID AND ALL SECONDARY SUPPORT TO STRUCTURE TO BE DESIGN, COORDINATED, PROVIDED, AND INSTALLED BY OTHERS
- CEILING LEVEL SUPPORT STRUT INTEGRATION DETAILS REPRESENT PRICE RECOMMENDATIONS AND BEST PRACTICE.
- PRICE CEILING SYSTEM HAS BEEN DESIGNED TO INTEGRATE WITH CEILING LEVEL SUPPORT STRUT LAYOUT AS SHOWN. GC/AHJ TO COORDINATE, AND ADVISE PRICE OF ANY DISCREPANCIES OR DEVIATIONS

price CRITICAL ENVIRONMENTS		
Project:		
275014	Revision: 0	04-28-2023

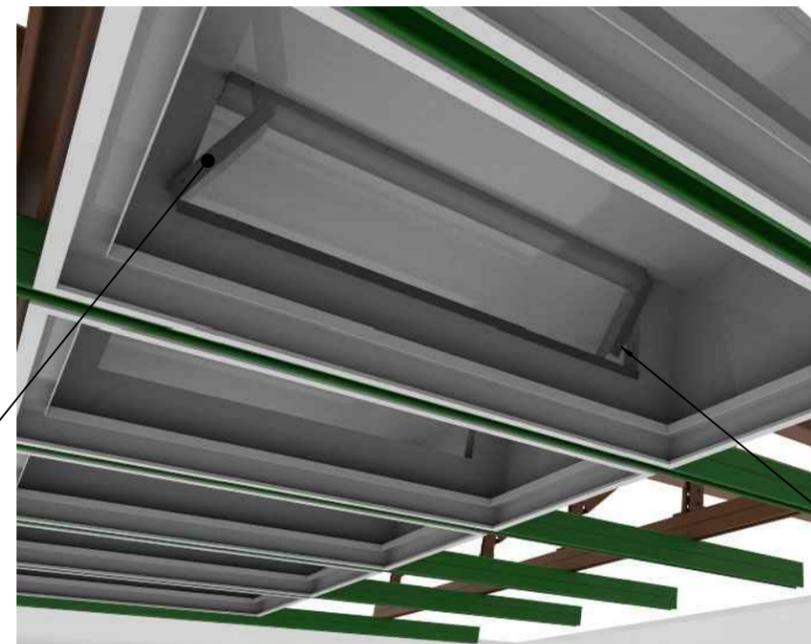
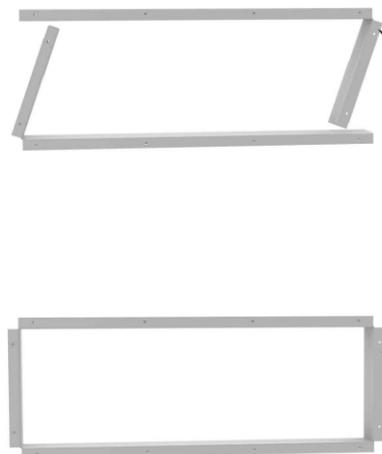
HGP

OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING INLET MANIFOLD INSTALLATION DETAILS



REMOVE INTERNAL COMPONENTS AND RAISE HGP MODULES. FASTEN TO UNISTRUT AS SHOWN ON PAGE 10

SECONDARY SUPPORT STRUT (BY OTHERS)



- CEILING SYSTEM SUPPORT STRUT GRID AND ALL SECONDARY SUPPORT TO STRUCTURE TO BE DESIGN, COORDINATED, PROVIDED, AND INSTALLED BY OTHERS
- CEILING LEVEL SUPPORT STRUT INTEGRATION DETAILS REPRESENT PRICE RECOMMENDATIONS AND BEST PRACTICE.
- PRICE CEILING SYSTEM HAS BEEN DESIGNED TO INTEGRATE WITH CEILING LEVEL SUPPORT STRUT LAYOUT AS SHOWN. GC/AHJ TO COORDINATE, AND ADVISE PRICE OF ANY DISCREPANCIES OR DEVIATIONS

[CLICK HERE FOR 3D MODEL](#)

price | **CRITICAL ENVIRONMENTS**

Project:

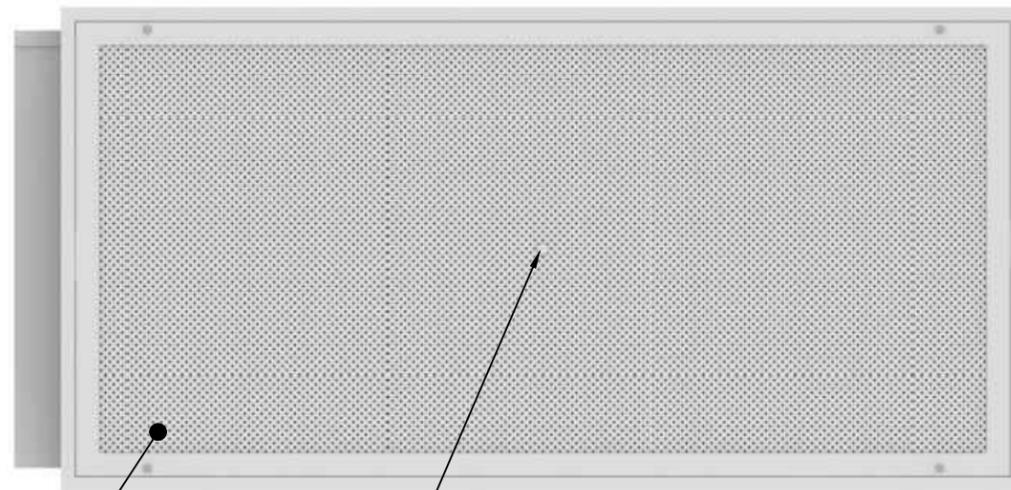
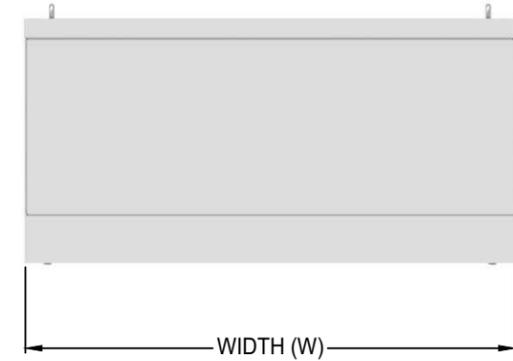
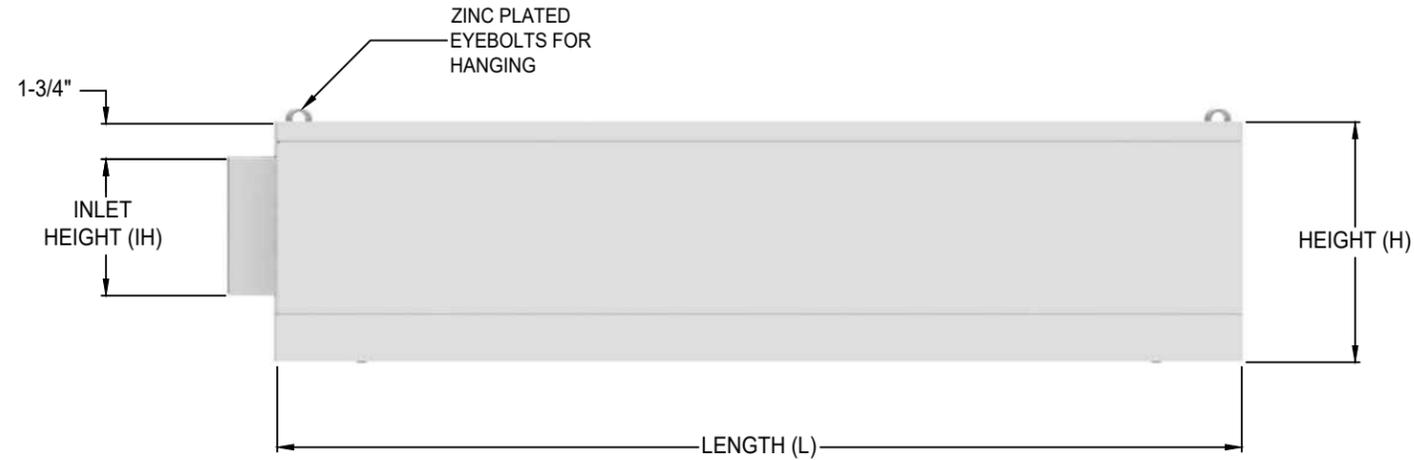
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HOSPITAL GRADE COMMON PLENUM SYSTEM



PERFORATED
DIFFUSER FACE
13% FREE AREA

FACE ACCESSIBLE
APERTURE DAMPER
FACE PLUG



OPTIONAL GALVANIZED FLUSH
BRACKETS (BR) FOR HANGING



OPTIONAL GALVANIZED CORNER
BRACKETS FOR HANGING

STANDARD CONSTRUCTION

- 14 GA (.064" THICK) ALUMINUM PLENUM
- EXTRUDED ALUMINUM OUTER FRAME AND DIFFUSER FACE FRAME
- TIG WELDED PLENUM, DIFFUSER FACE AND OUTER FRAME
- ZINC PLATED EYE BOLTS FOR HANGING
- OPTIONAL GALVANIZED FLUSH BRACKETS FOR HANGING
- OPTIONAL GALVANIZED CORNER BRACKETS FOR HANGING
- ROOM-SIDE ADJUSTABLE APERTURE PLATE DAMPER
- TWO STAINLESS STEEL RETAINER CABLES PER DIFFUSER FACE
- DIFFUSER FACE SECURED WITH 1/4 TURN FASTENERS

FINISH

- B12 WHITE
- OPTIONAL AMB12 ANTI-MICROBIAL WHITE

STANDARD MODULE SIZING CHART					
NOMINAL (W)	NOMINAL (L)	ACTUAL (W)	ACTUAL (L)	HEIGHT (H)	
				MIN	MAX
24.000	24.000	24.250	24.250	7	18
24.000	34.000	24.250	34.000	7	18

- STANDARD HEIGHT (H) = 12"
- MINIMUM HEIGHT WITH HEPA FILTER = 9"
- MINIMUM WIDTH WITH HEPA FILTER = 12"
- MAX INLET HEIGHT (IH) = HEIGHT (H) - 5"
- MAX INLET HEIGHT (IH) WITH HEPA = HEIGHT (H) - 7"

PRICE CEILING SYSTEM WEIGHTS		
PRICE SUPPLIED COMPONENTS	TOTAL SQUARE FEET = 265 SQ.FT.	563 lbs.
HGP	98 SQ.FT.	461 lbs.
HGWC	91 SQ.FT.	46 lbs.
PANELS	76 SQ.FT.	57 lbs.

price | **CRITICAL ENVIRONMENTS**

Project:

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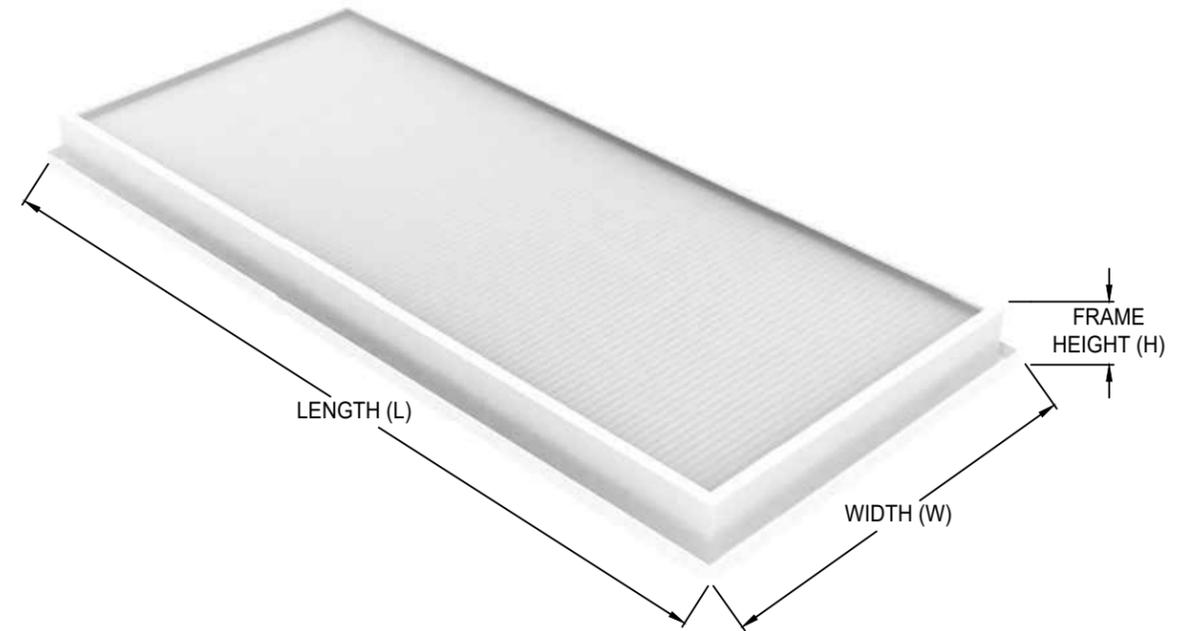
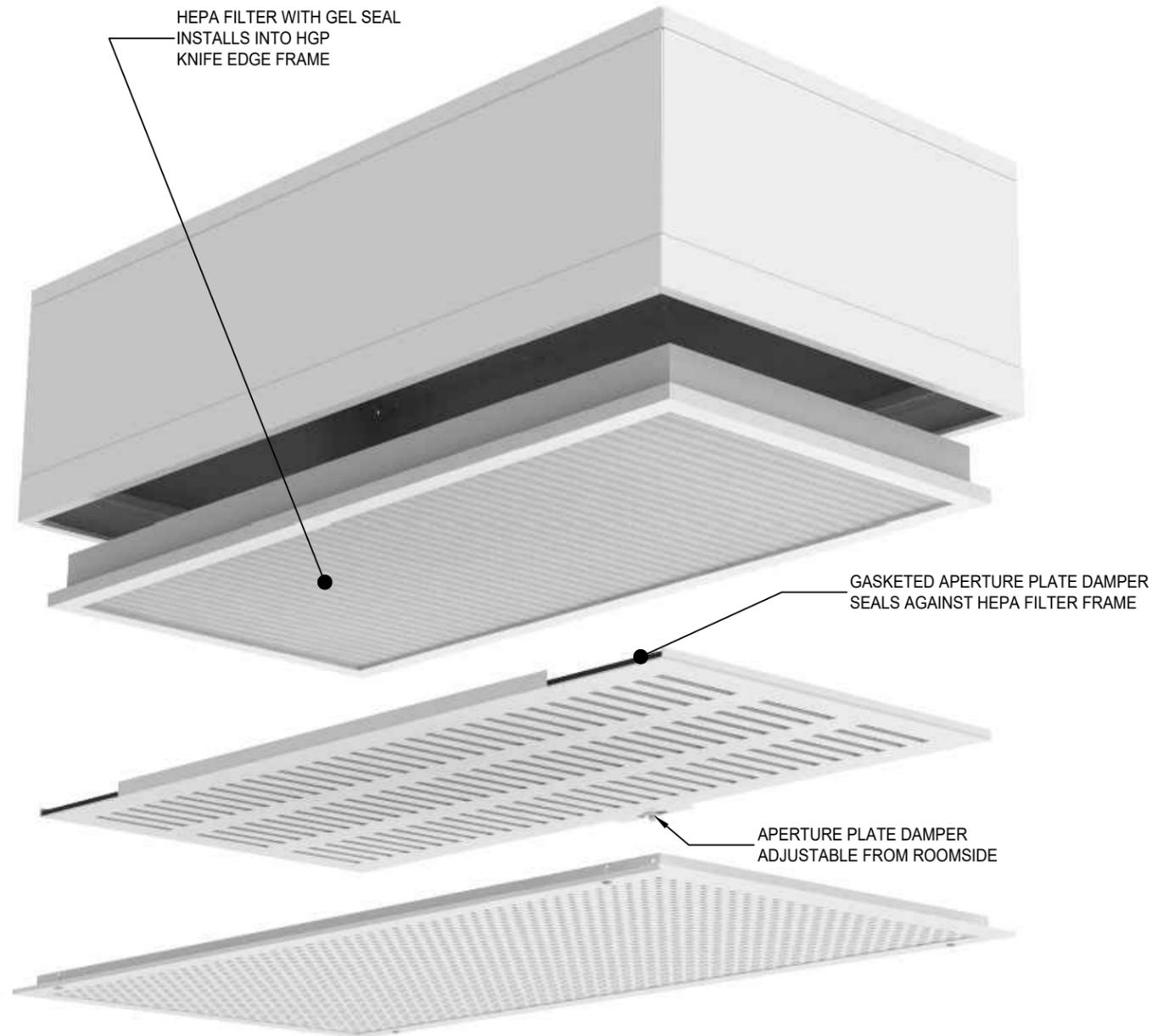
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HOSPITAL GRADE COMMON PLENUM SYSTEM

○ OPTIONAL ROOMSIDE HEPA FILTRATION



STANDARD FILTER SIZING CHART				
REPLACEMENT PART #	NOMINAL (W)	NOMINAL (L)	ACTUAL (W)	ACTUAL (L)
042299-029	24	24	21.31	21.31
SPECIAL	24	35	21.31	32.06

NOTES:

- FILTER PLEATS RUN PARALLEL TO THE WIDTH (W) DIMENSION
- DIMENSIONS W & L TOLERANCES ± 0.0156
- FILTERS COME WITH GEL SEAL FILLED CHANNEL
- FILTERS MUST BE ORDERED SEPARATELY UNDER THE FTR-1-X LINESTRING

FRAME DETAILS:

- MATERIAL: ANODIZED EXTRUDED ALUMINUM
- THICKNESS: $\frac{1}{16}$ " (MINIMUM)
- FILTERS ARE UL 900 CLASS 1 CERTIFIED
- EFFICIENCY AND LEAK SCAN TESTED
- HEPA EFFICIENCY: 99.99% (.3 MICRON)
- MINIMUM MODULE WIDTH FOR ROOMSIDE HEPA FILTRATION IS 12"



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VISIT PRICE INDUSTRIES WEBSITE FOR FILTER QUICK START GUIDE

<https://www.priceindustries.com/content/uploads/assets/literature/manuals/section%20e/ftr-room-side-replaceable-filter-rsr-quick-start-guide.pdf>

NOTE:

UL 1598 DOES NOT HAVE PROVISIONS FOR HEPA FILTERS MOUNTED WITHIN FIXTURE. USA COMPLIES WITH UL 1598 WITH HEPA FILTERS ORDERED SEPERATELY ON FTR-1-X LINESTRING.

HGP

HOSPITAL GRADE COMMON PLENUM SYSTEM

- OPTIONAL ROOMSIDE HEPA FILTRATION

FILTER HOLD DOWN TAB DETAIL



FILTER HOLD
DOWN TAB

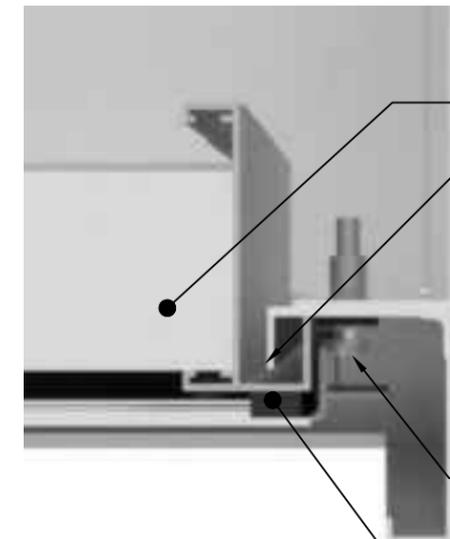


APERTURE PLATE
DAMPER WITH UL2043
RATED GASKET
SEALS AGAINST
THE KNIFE EDGE

KNIFE EDGE

HEPA FILTER
GEL SEAL

STATIC PRESSURE PORT DETAIL



HEPA FILTER

KNIFE EDGE

STATIC
PRESSURE
PORT

APERTURE PLATE
DAMPER WITH UL2043
RATED GASKET
SEALS AGAINST
THE HEPA FRAME

price | **CRITICAL ENVIRONMENTS**

Project:

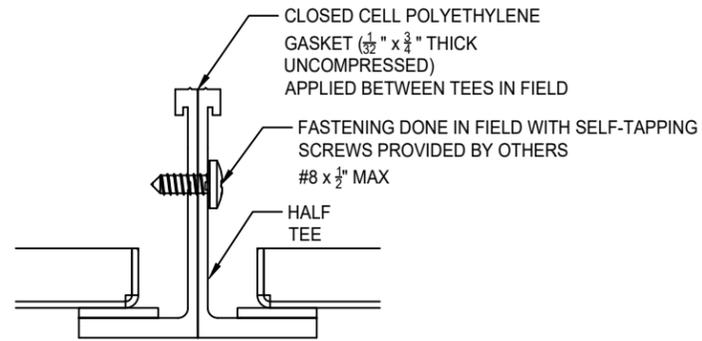
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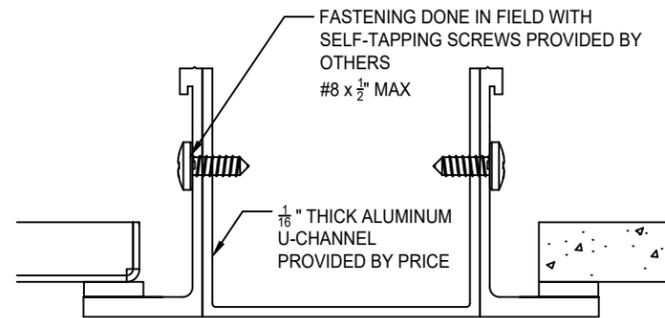
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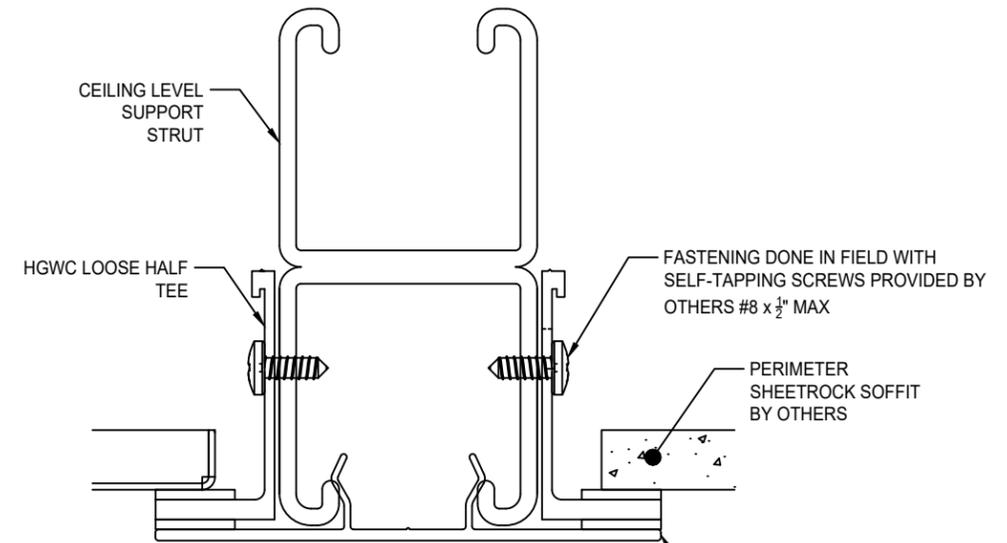
HOSPITAL GRADE COMMON PLENUM SYSTEM HGWC INTEGRATION DETAILS



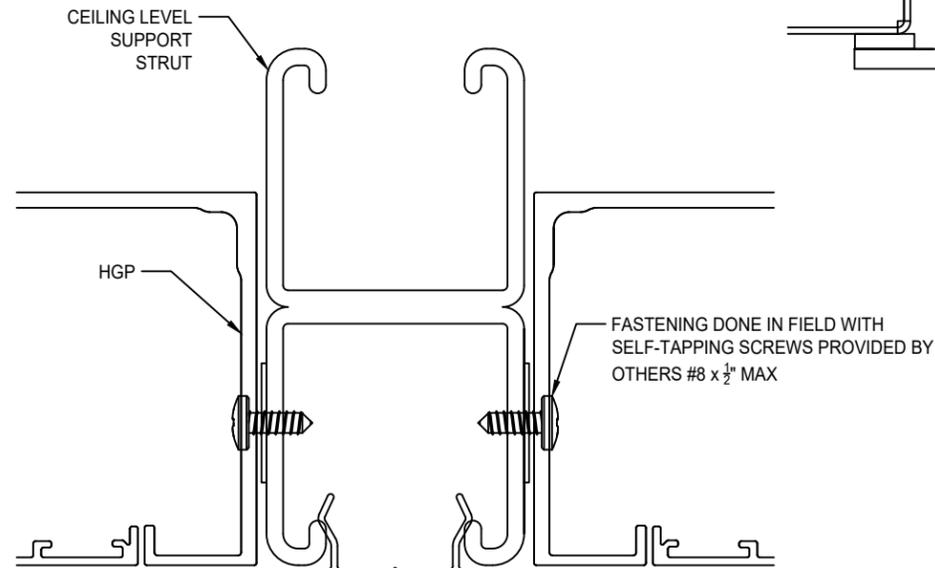
A HALF TEE FIELD JOINT



C U CHANNEL DETAIL

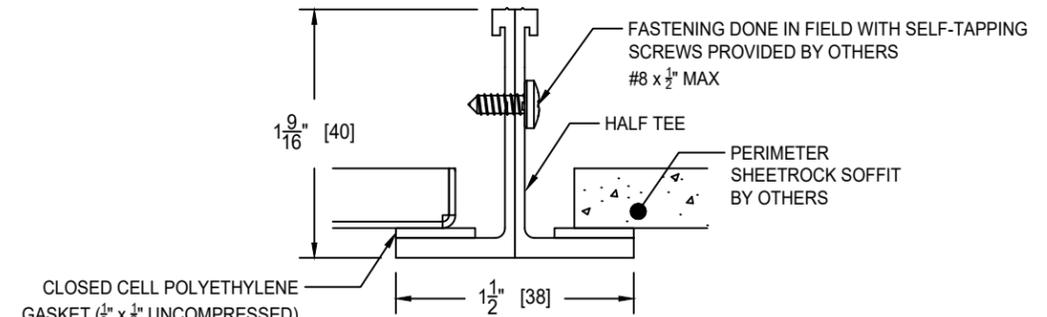


D LOOSE HALF TEE PERIMETER SHEETROCK SOFFIT DETAIL



B HGP UNISTRUT INTEGRATION

EXTRUDED ALUMINUM CLOSURE STRIP PROVIDED BY PRICE



E HALF TEE PERIMETER SHEETROCK SOFFIT DETAIL

price | **CRITICAL ENVIRONMENTS**

Project:

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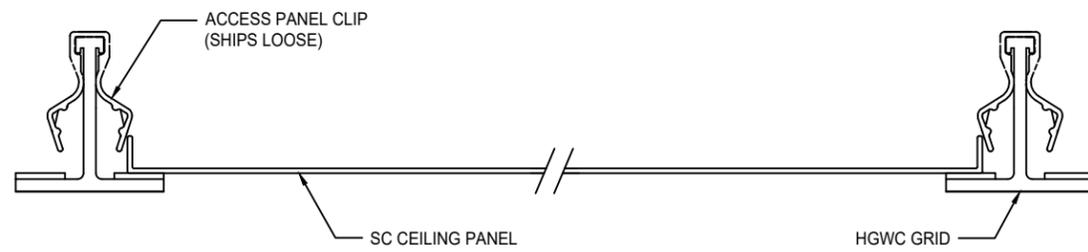
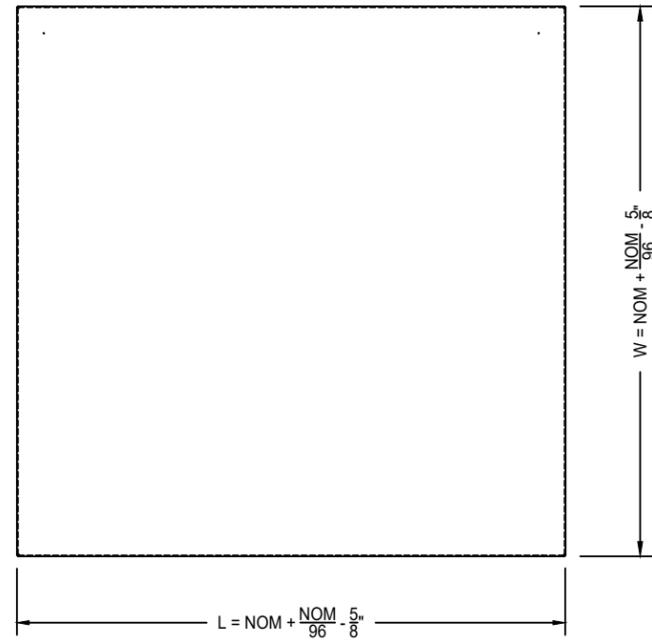
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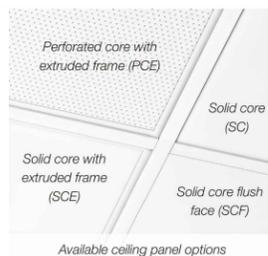
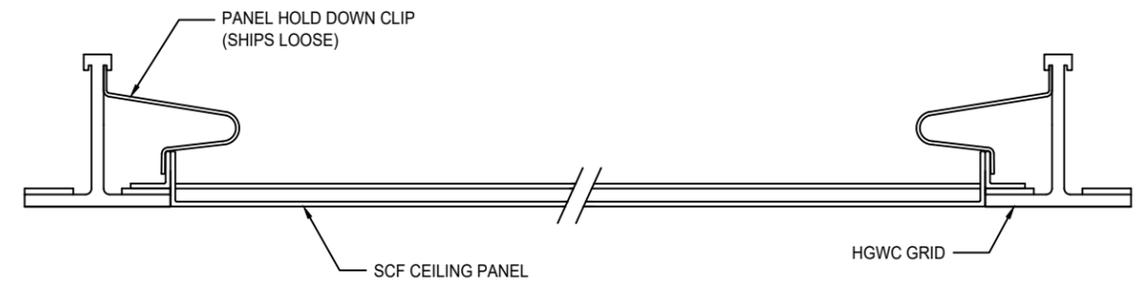
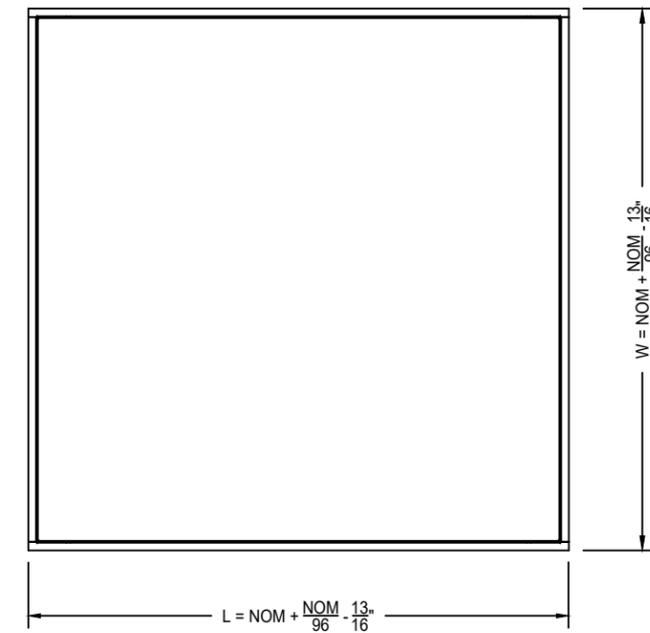
HGP

HOSPITAL GRADE COMMON PLENUM SYSTEM

SC - SOLID CORE



SCF - SOLID CORE WITH FLUSH MOUNT FRAME



PANEL MATERIAL / FINISH:

- SC PANEL - .080" ALUMINUM / B12 STANDARD WHITE
- SCF PANEL - .040" ALUMINUM / B12 STANDARD WHITE

CEILING TYPE:

- HGWC - 1 1/2" HOSPITAL GRADE WELDED CEILING SYSTEM

PRICE | **CRITICAL ENVIRONMENTS**

Project:

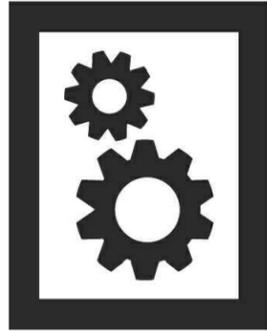
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HOSPITAL GRADE COMMON PLENUM SYSTEM SUPPORTING CONTENT



MANUALS

HOSPITAL GRADE COMMON PLENUM MANUAL
FTR ROOM-SIDE REPLACEABLE FILTER (RSR) QUICK START GUIDE
HGWC HOSPITAL GRADE WELDED CEILING SYSTEM WITH INTEGRATED UNISTRUT MANUAL



SUBMITTALS

FTR REPLACEMENT FILTER SUBMITTAL
HGWC HOSPITAL GRADE WELDED CEILING SYSTEM SUBMITTAL



CATALOGUE / PERFORMANCE

HGP HOSPITAL GRADE COMMON PLENUM CATALOGUE



VIDEOS

HGP OPERATING ROOM CEILING SYSTEMS

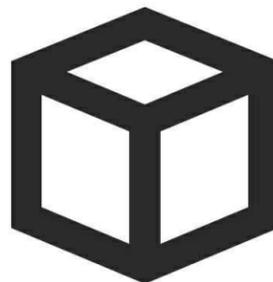


SPECIFICATIONS

HGP HOSPITAL GRADE COMMON PLENUM SPECIFICATIONS



FOR MORE INFORMATION ON PRICE HOSPITAL GRADE COMMON PLENUM SYSTEMS, VISIT [PRICEINDUSTRIES.COM](https://www.priceindustries.com)



REVIT FILES

HGP HYBRID OR/IMAGINING SUITE REVIT FILE

price | **CRITICAL ENVIRONMENTS**

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