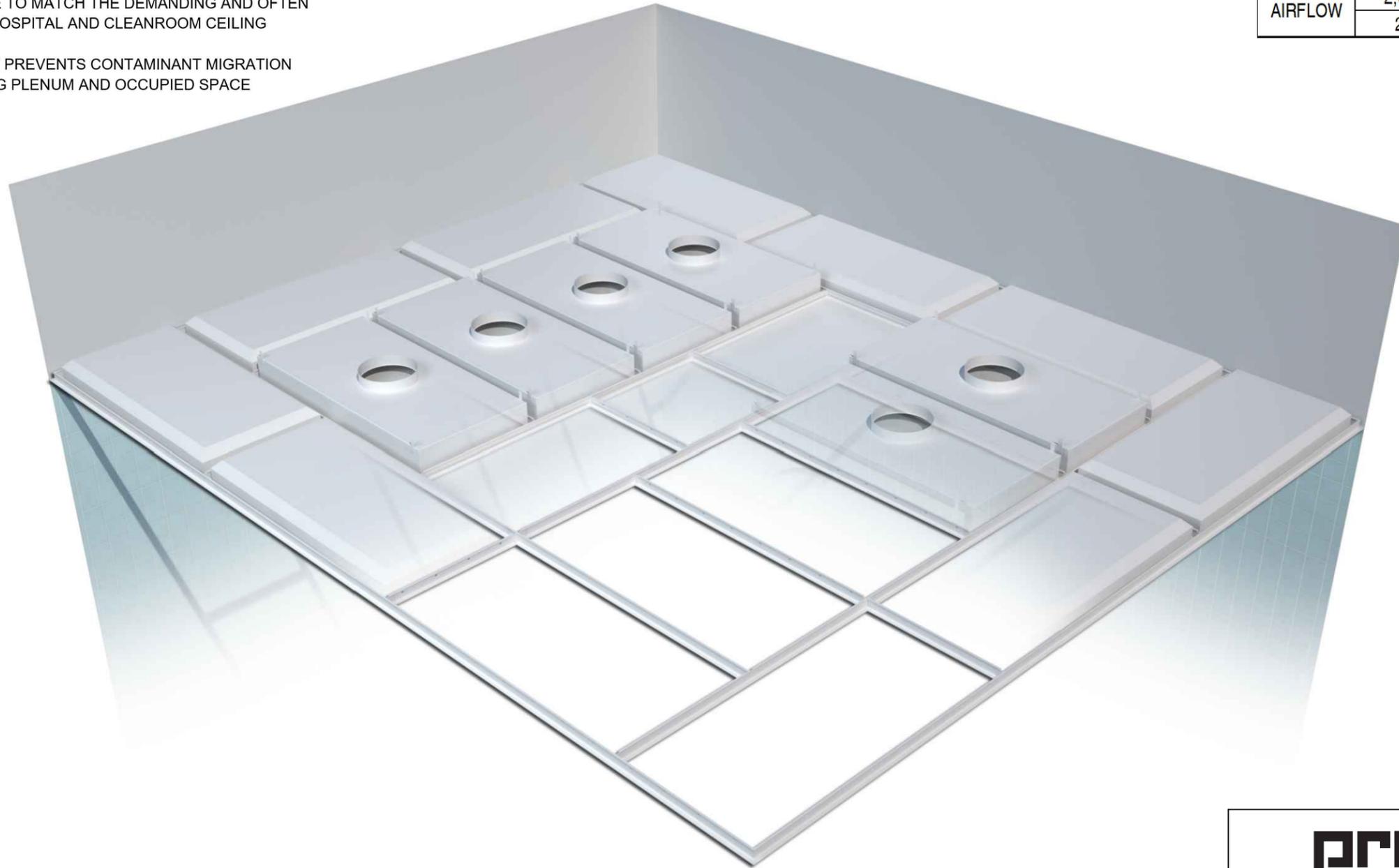


HGWC

HOSPITAL GRADE WELDED CEILING SYSTEM EXAMPLE SYSTEM FOR A TRADITIONAL OR

FEATURES:

- HEAVY DUTY, EXTRUDED ALUMINUM CEILING SYSTEM DESIGNED TO SUPPORT DIFFUSERS, IN-FILL PANELS AND LIGHT FIXTURES IN A VARIETY OF CRITICAL ENVIRONMENTS
- FULLY CUSTOMIZABLE TO MATCH THE DEMANDING AND OFTEN CROWDED MODERN HOSPITAL AND CLEANROOM CEILING LAYOUTS
- CONTINUOUS GASKET PREVENTS CONTAMINANT MIGRATION BETWEEN THE CEILING PLENUM AND OCCUPIED SPACE



EXAMPLE SYSTEM		
AIRFLOW	2,000	CFM
	20	ACH

price | **CRITICAL ENVIRONMENTS**

Project:

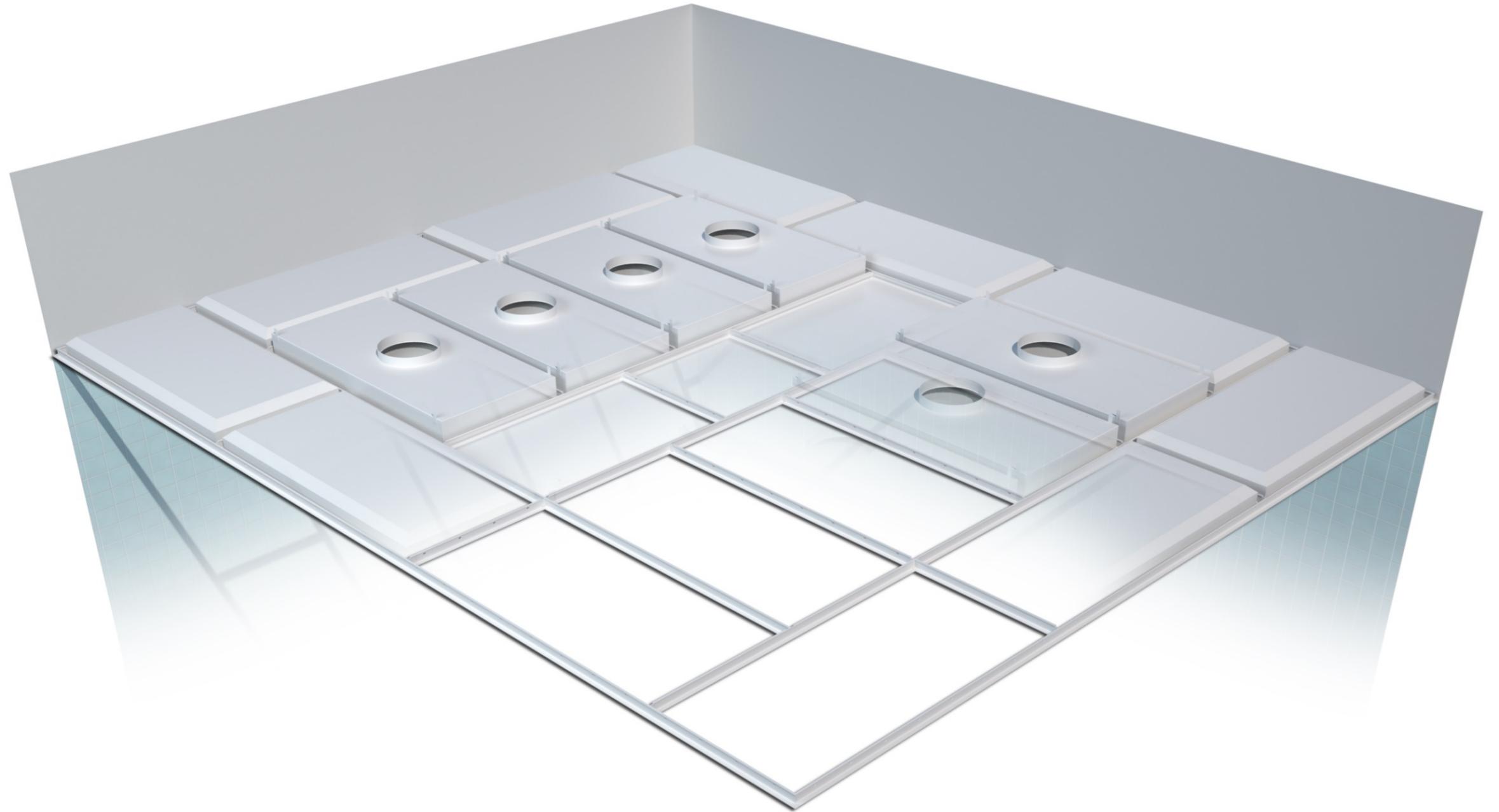
272986

Revision: 0

05-01-2021

HGWC 360°

HOSPITAL GRADE WELDED CEILING SYSTEM
3D INTERACTIVE MODEL - TRADITIONAL OR



ORDER OF INSTALLATION
(CLICK BUTTONS TO TOGGLE VIEWS)

- BOOM SUPPORTS**
(by Others)
- HGWC CEILING GRID**
(View A)
- HGWC CEILING GRID**
(View B)
- LFD LAMINAR FLOW DIFFUSERS**
(View A)
- LFD LAMINAR FLOW DIFFUSERS**
(View B)
- CP-SCF CEILING PANELS**
- CP-SC CEILING PANELS**
- FINAL INSTALLATION**

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

**CLICK IMAGE TO
ACTIVATE 3D PDF**



PRICE | **CRITICAL ENVIRONMENTS**

Project:

272986

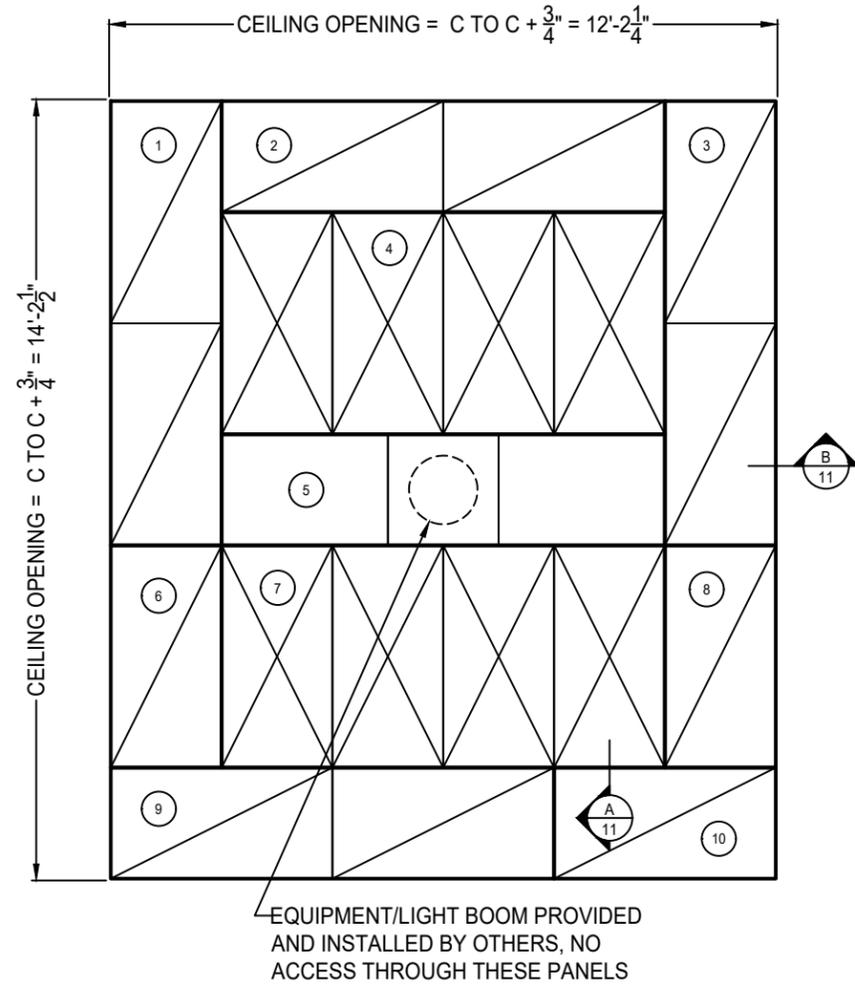
Revision: 0

05-01-2021

HGWC

HOSPITAL GRADE WELDED CEILING SYSTEM

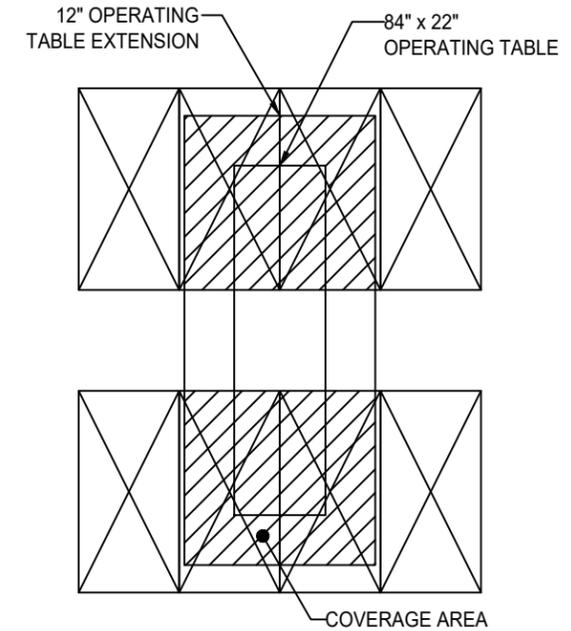
REFLECTED CEILING PLAN - TRADITIONAL OR



HGWC AREA = 172 sq. ft.

DIFFUSERS	LIGHT FIXTURES BY OTHERS	SCF - SOLID CORE FLUSH MOUNT PANELS	SC - SOLID CORE ACCESS PANELS
24 x 48 (x 8)	24 x 48 (x 11)	24 x 24 (x 1)	24 x 36 (x 2)

ASHRAE 170-2021 TABLE COVERAGE VERIFICATION - TRADITIONAL OR



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
1600 - 2240 CFM BASED ON 80 SQFT	24% 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/QM). 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.



Project:

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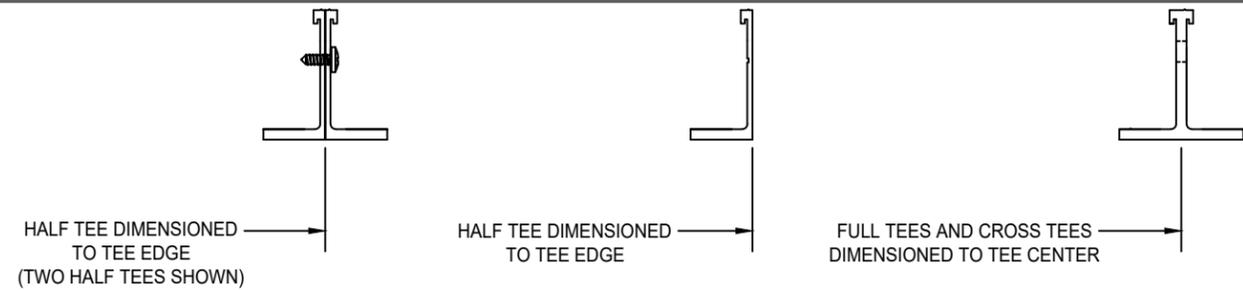
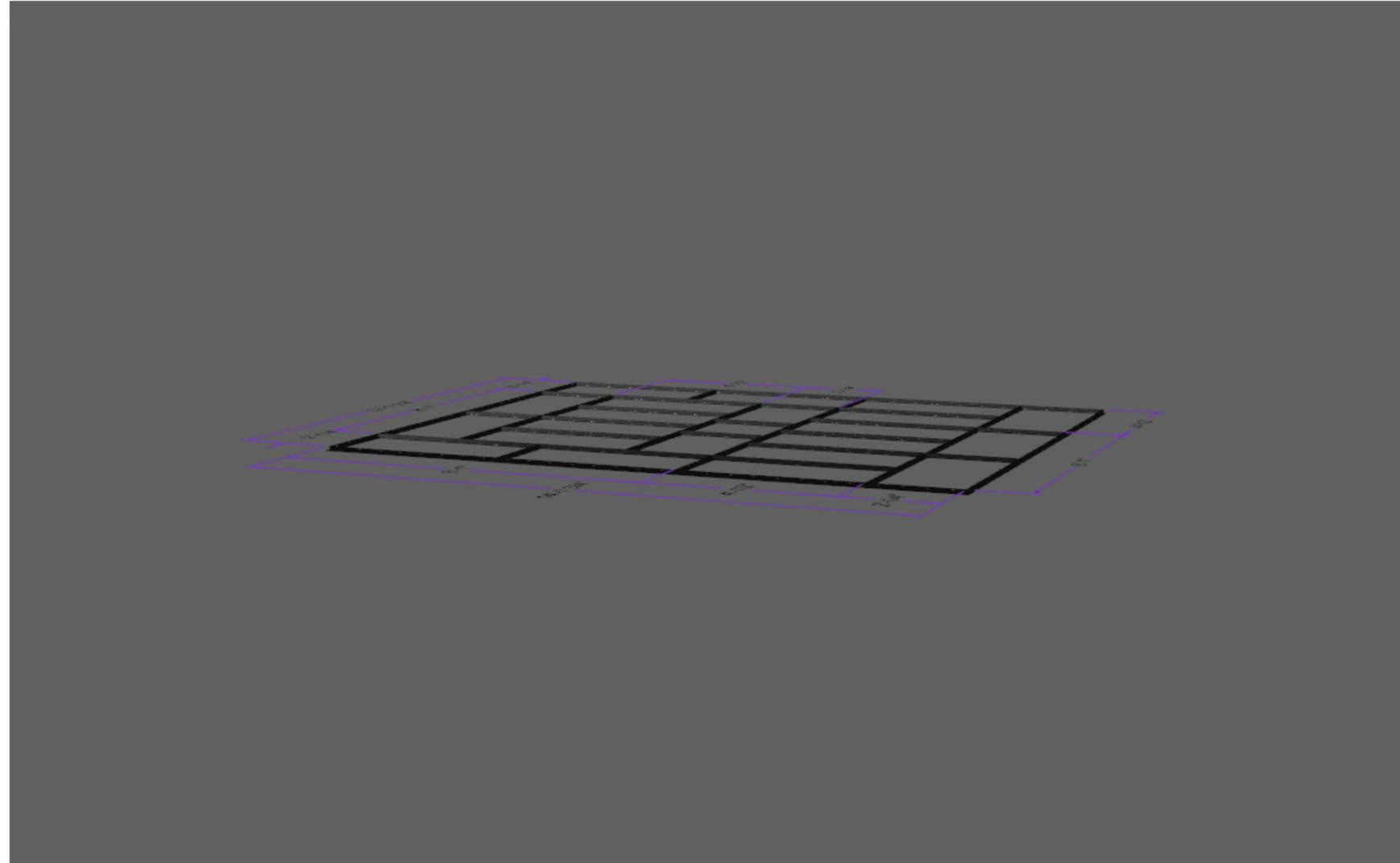
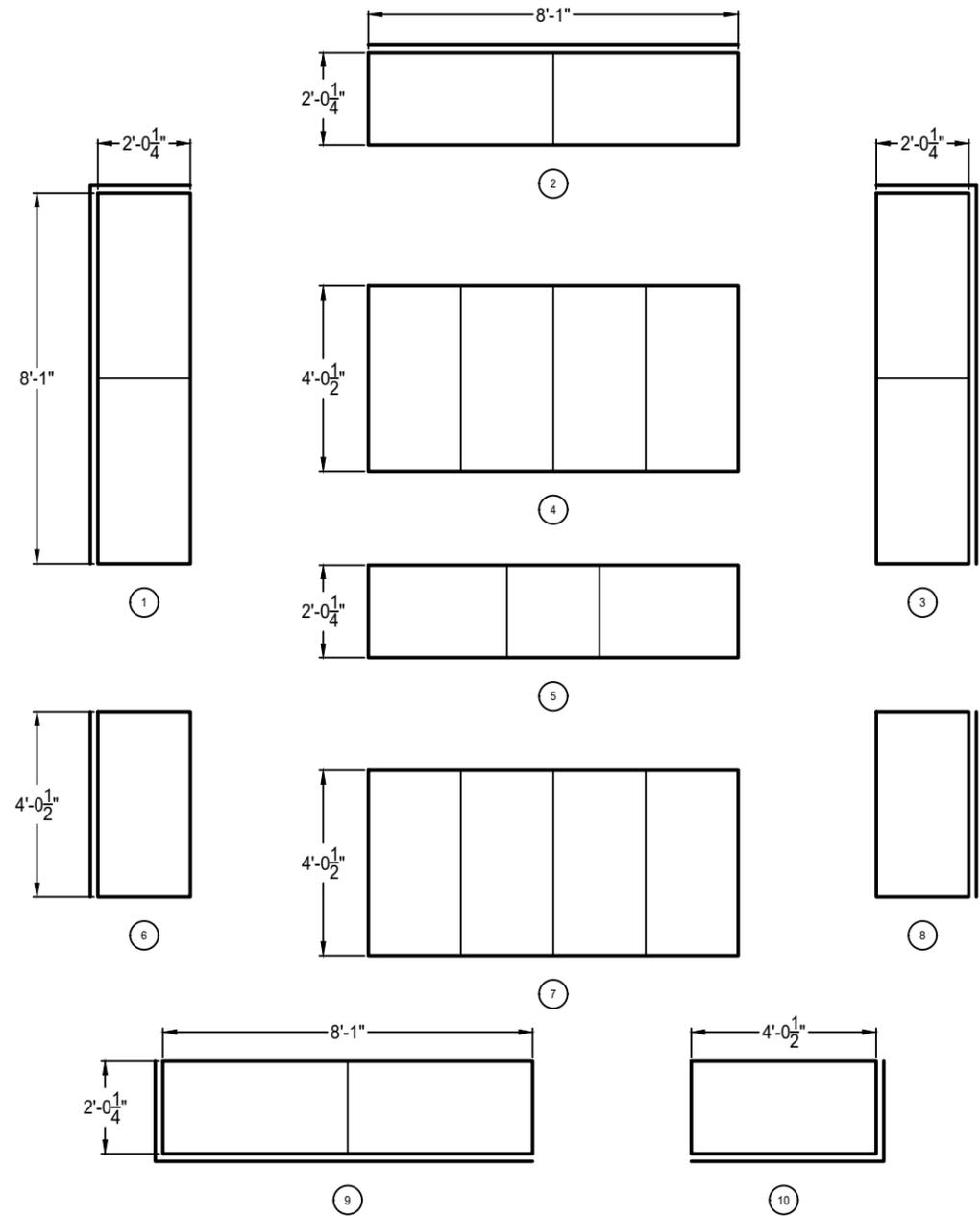
Revision: 0

05-01-2021

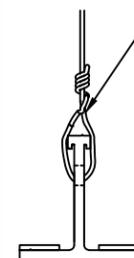
- B12 STANDARD WHITE FINISH
- PANEL CUTOUTS FOR BOOMS DONE IN FIELD BY OTHERS
- THE CEILING IS FACTORY PREMANUFACTURED TO SIZES AND TOLERANCE $\pm 1/16"$
- SITE ADJUSTMENTS TO PERIMETER SOFFITS AND/OR DRYWALL MAY BE REQUIRED AND ARE THE RESPONSIBILITY OF THE INSTALLER
- ASHRAE 170 VERIFICATION IS SHOWN 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 AHJ ON THE PROJECT

HGWC

HOSPITAL GRADE WELDED CEILING SYSTEM SHIP SECTION BREAKDOWN - TRADITIONAL OR



- 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"



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) PRICE RECOMMENDS MAXIMUM DISTANCE BETWEEN HANGER WIRE TO BE ~48" ALL FULL TEES AND CROSS TEES FACTORY PUNCHED EVERY ~6"

TOTAL CEILING SYSTEM WEIGHT =	98 lbs
HGWC =	86 lbs
PANELS =	12 lbs

PRICE | **CRITICAL ENVIRONMENTS**

Project:

272986

Revision: 0

05-01-2021

HGWC

HOSPITAL GRADE WELDED CEILING SYSTEM EXAMPLE SYSTEM FOR A HYBRID OR/IMAGING SUITE

FEATURES:

- HEAVY DUTY, EXTRUDED ALUMINUM CEILING SYSTEM DESIGNED TO SUPPORT DIFFUSERS, IN-FILL PANELS AND LIGHT FIXTURES IN A VARIETY OF CRITICAL ENVIRONMENTS
- FULLY CUSTOMIZABLE TO MATCH THE DEMANDING AND OFTEN CROWDED MODERN HOSPITAL AND CLEANROOM CEILING LAYOUTS
- CONTINUOUS GASKET PREVENTS CONTAMINANT MIGRATION BETWEEN THE CEILING PLENUM AND OCCUPIED SPACE



EXAMPLE SYSTEM		
AIRFLOW	2,850	CFM
	20	ACH

price | **CRITICAL ENVIRONMENTS**

Project:

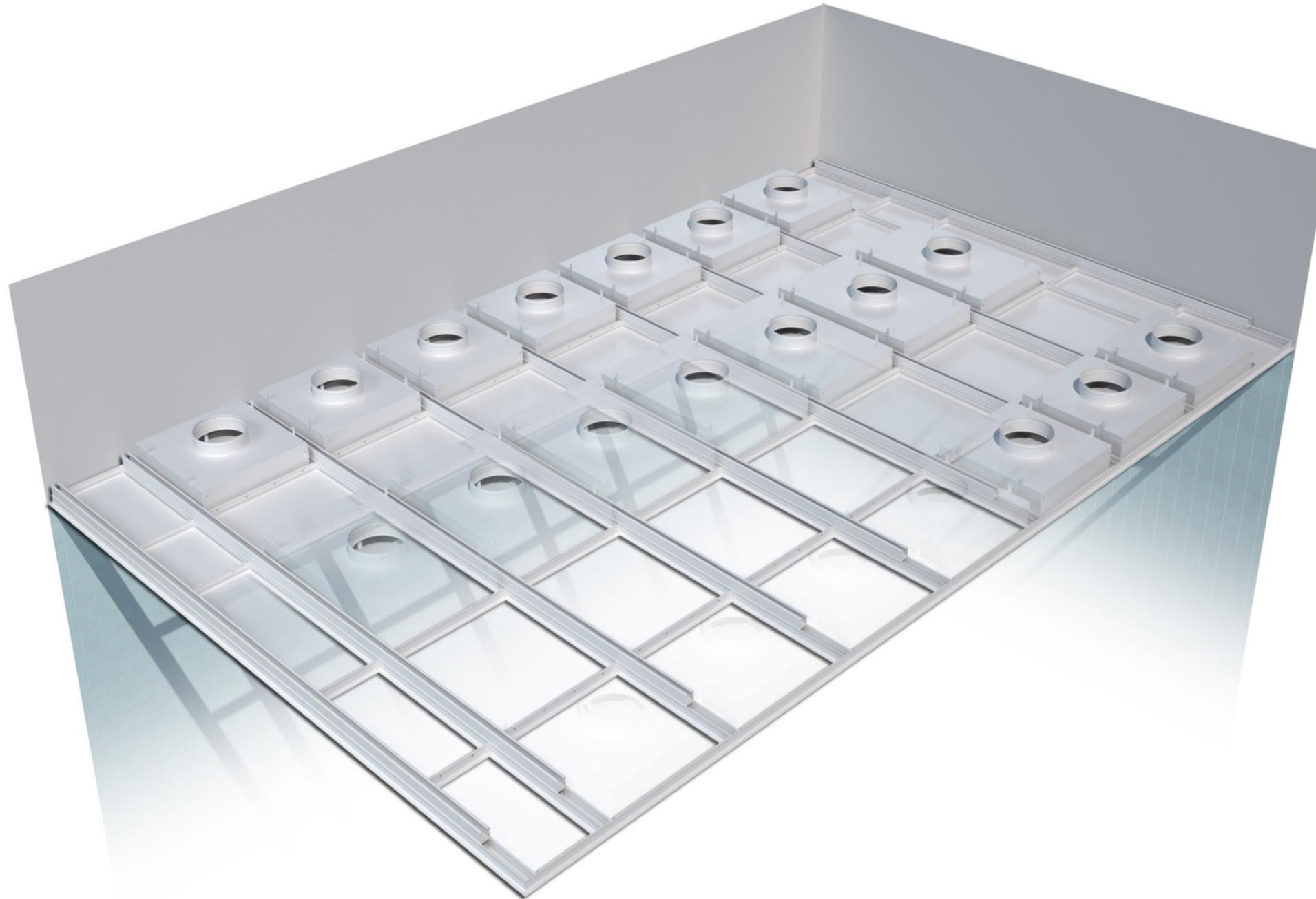
272986

Revision: 0

05-01-2021

HGWC 360°

**HOSPITAL GRADE WELDED CEILING SYSTEM
3D INTERACTIVE MODEL - HYBRID OR/IMAGING SUITE**



ORDER OF INSTALLATION
(CLICK BUTTONS TO TOGGLE VIEWS)

- CEILING LEVEL SUPPORT STRUT & MEDICAL EQUIPMENT SUPPORT RAILS (by Others)
- HGWC CEILING GRID (View A)
- HGWC CEILING GRID (View B)
- LFD LAMINAR FLOW DIFFUSERS (View A)
- LFD LAMINAR FLOW DIFFUSERS (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**



price | **CRITICAL ENVIRONMENTS**

Project:

272986

Revision: 0

05-01-2021

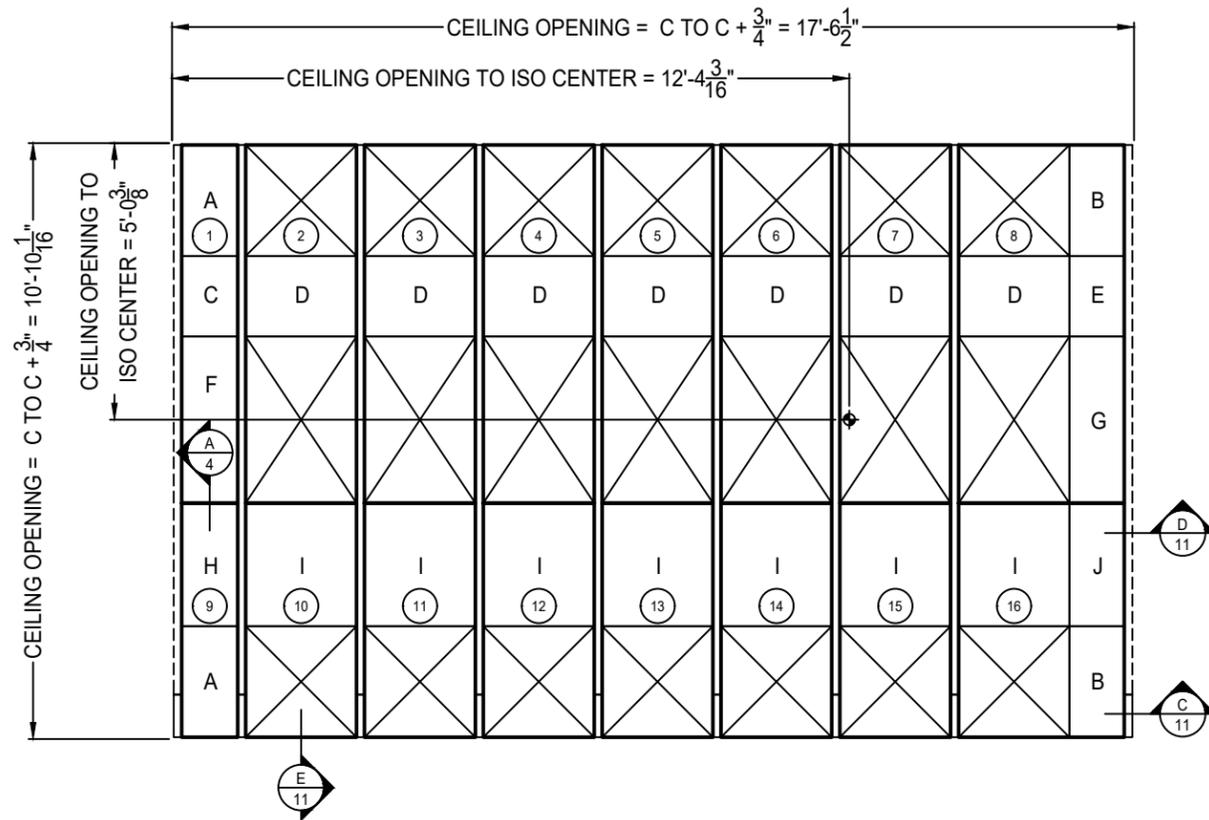
- USE THE SCROLL WHEEL TO ZOOM
- HOLD DOWN THE LEFT MOUSE BUTTON TO ROTATE
- HOLD DOWN CTRL AND LEFT MOUSE BUTTON TO MOVE

CEILING LEVEL SUPPORT STRUT, SUPPORT TO STRUCTURE, AND MEDICAL EQUIPMENT SUPPORT RAILS ARE DESIGNED, PROVIDED, AND INSTALLED BY OTHERS

HGWC

HOSPITAL GRADE WELDED CEILING SYSTEM

REFLECTED CEILING PLAN - HYBRID OR/IMAGING SUITE

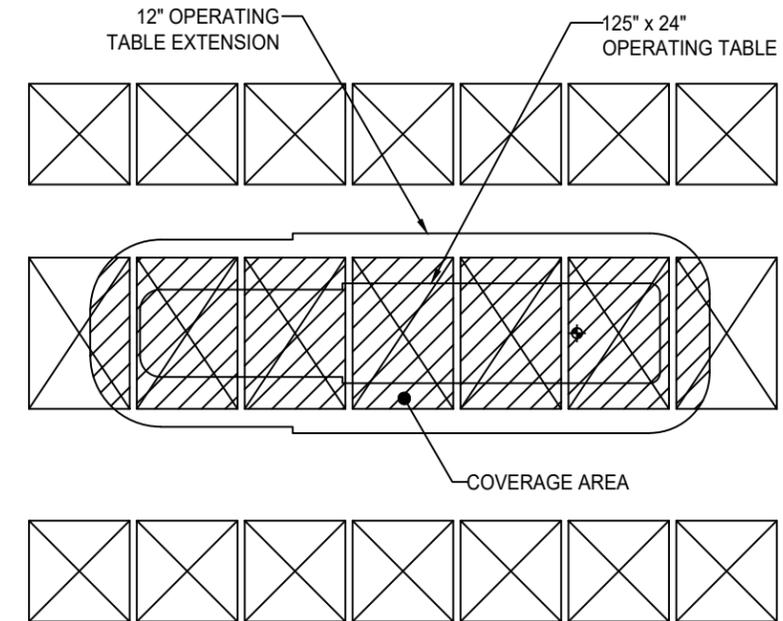


HGWC AREA = 188 sq. ft.

U CHANNEL INTERNAL TRIM PIECE	HGWC LOOSE HALF TEE PERIMETER TRIM PIECE	DIFFUSERS	SC - SOLID CORE ACCESS PANELS
1.75 x 9.312 (x9)	120" (x8)	24 x 24 (x 14) 24 x 36 (x 7)	A: 12.1 x 24.0 (x2) F: 12.1 x 36.0 (x1) B: 11.9 x 24.0 (x2) G: 11.9 x 36.0 (x1) C: 12.1 x 17.4 (x1) H: 12.1 x 26.6 (x1) D: 17.4 x 24.0 (x7) I: 24.0 x 26.6 (x7) E: 11.9 x 17.4 (x1) J: 11.9 x 26.6 (x1)

- B12 STANDARD WHITE FINISH
- PANEL CUTOUTS FOR BOOMS DONE IN FIELD BY OTHERS
- THE CEILING IS FACTORY PREMANUFACTURED TO SIZES AND TOLERANCE $\pm 1/16"$
- 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 AHJ 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
2450 - 3430 CFM BASED ON 98 SQFT	27% 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/QM). 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.

PRICE | CRITICAL ENVIRONMENTS

Project:

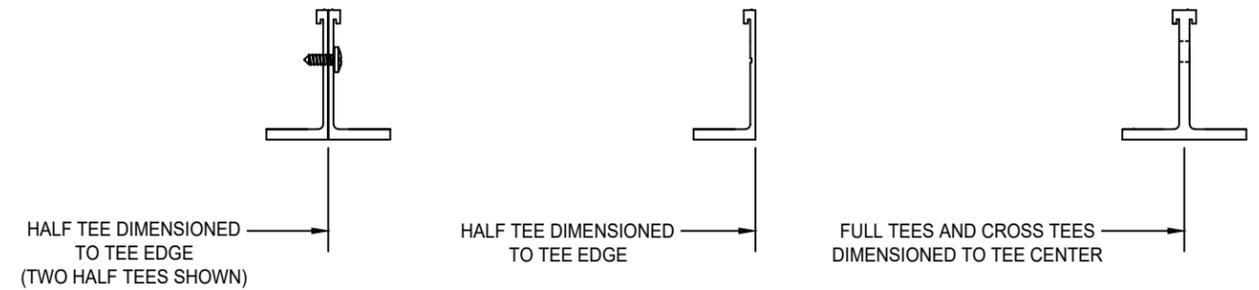
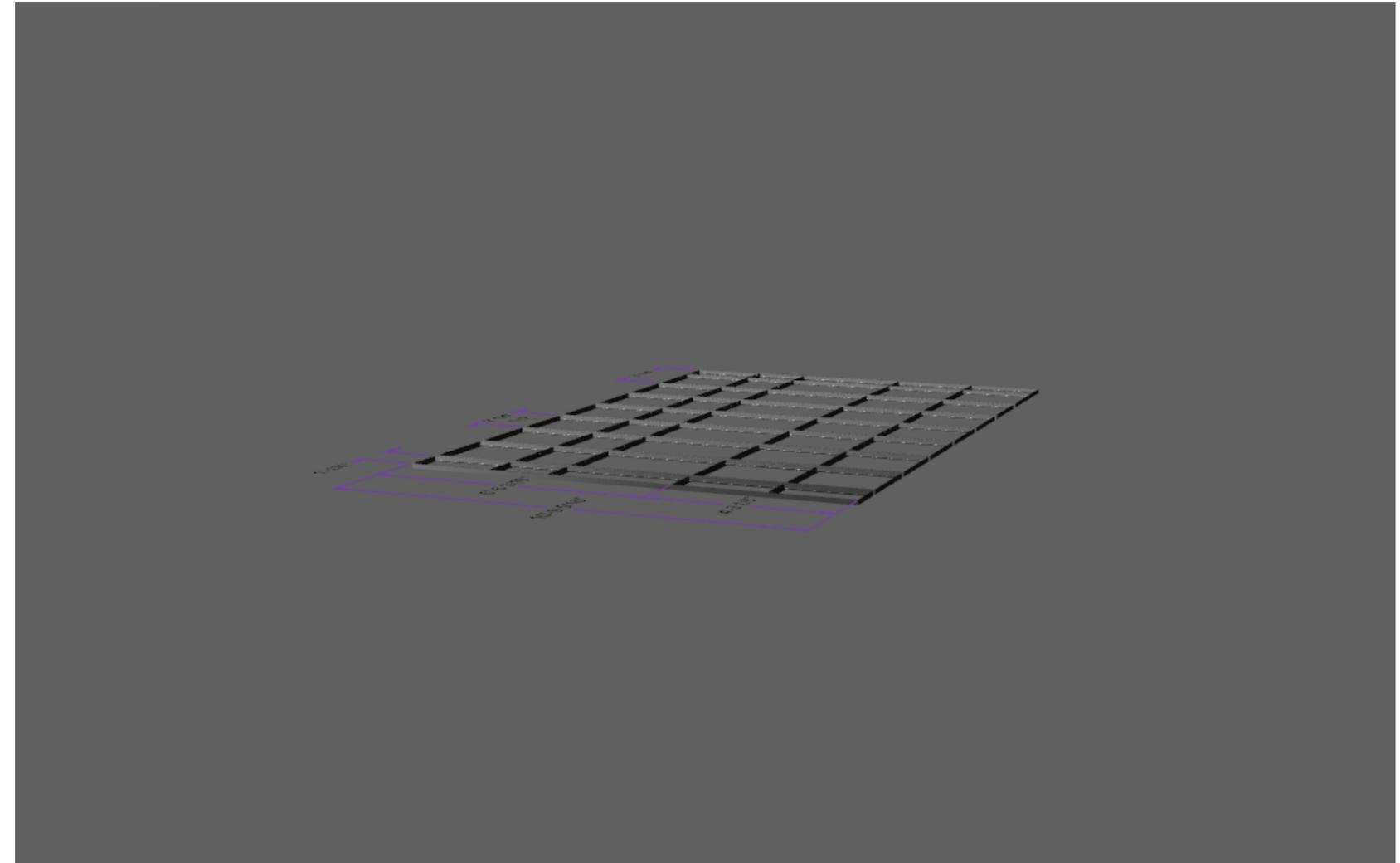
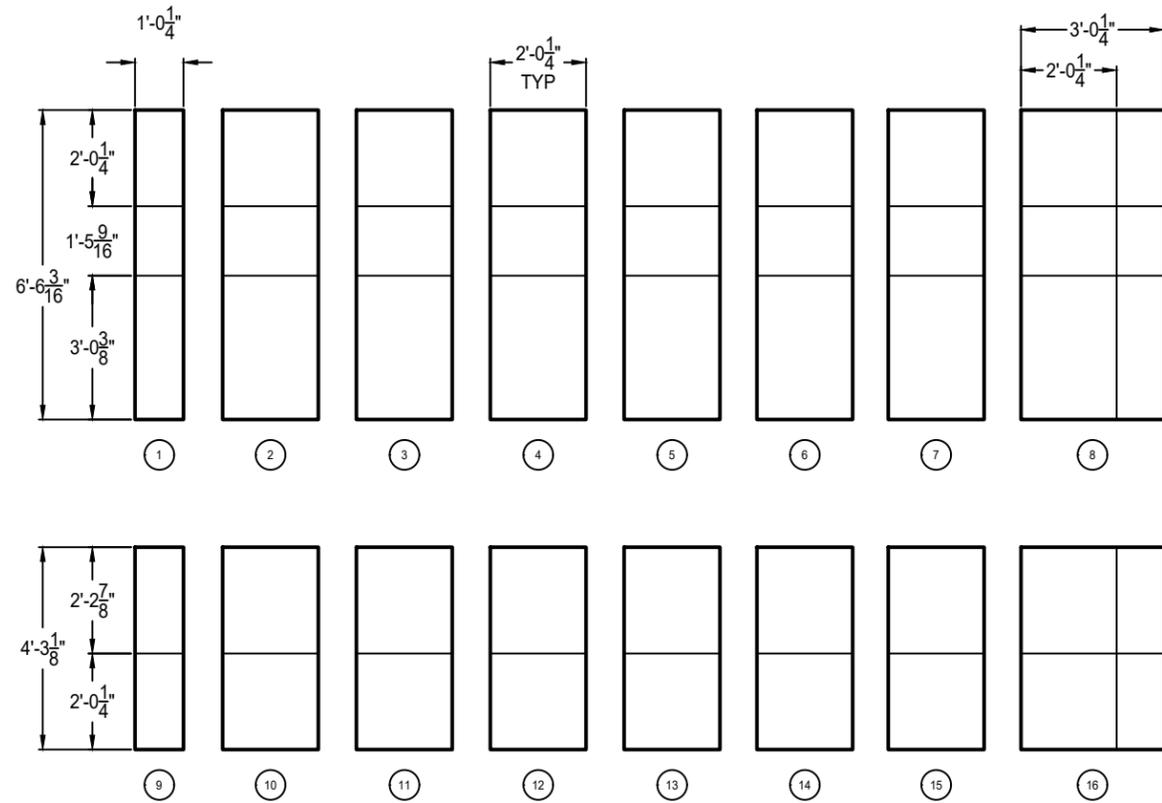
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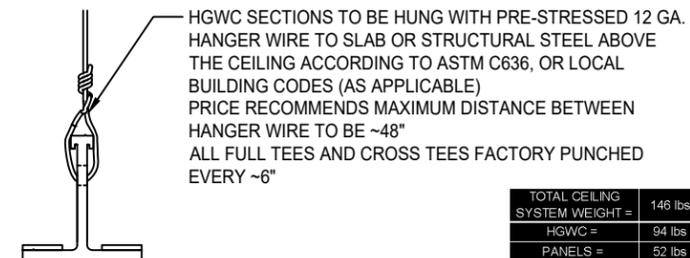
05-01-2021

HGWC

HOSPITAL GRADE WELDED CEILING SYSTEM SHIP SECTION BREAKDOWN - HYBRID OR/IMAGING SUITE



- 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"



TOTAL CEILING SYSTEM WEIGHT =	146 lbs
HGWC =	94 lbs
PANELS =	52 lbs

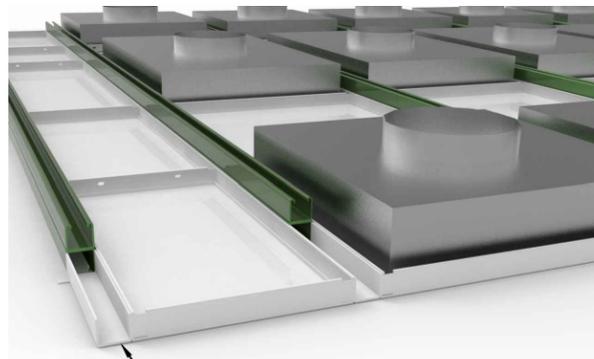
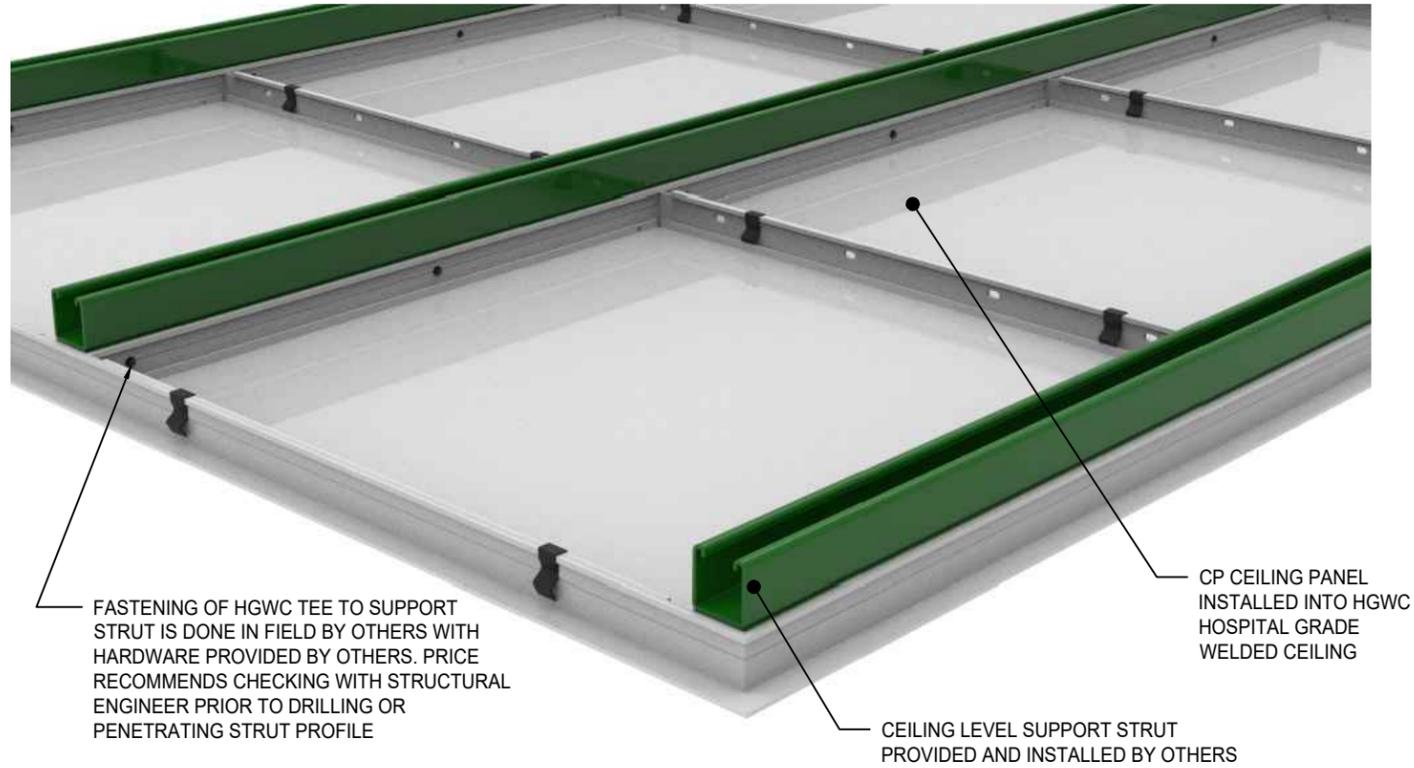


Project:		
272986	Revision: 0	05-01-2021

HGWC

HOSPITAL GRADE WELDED CEILING SYSTEM

CEILING LEVEL SUPPORT STRUT INTEGRATION DETAIL



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



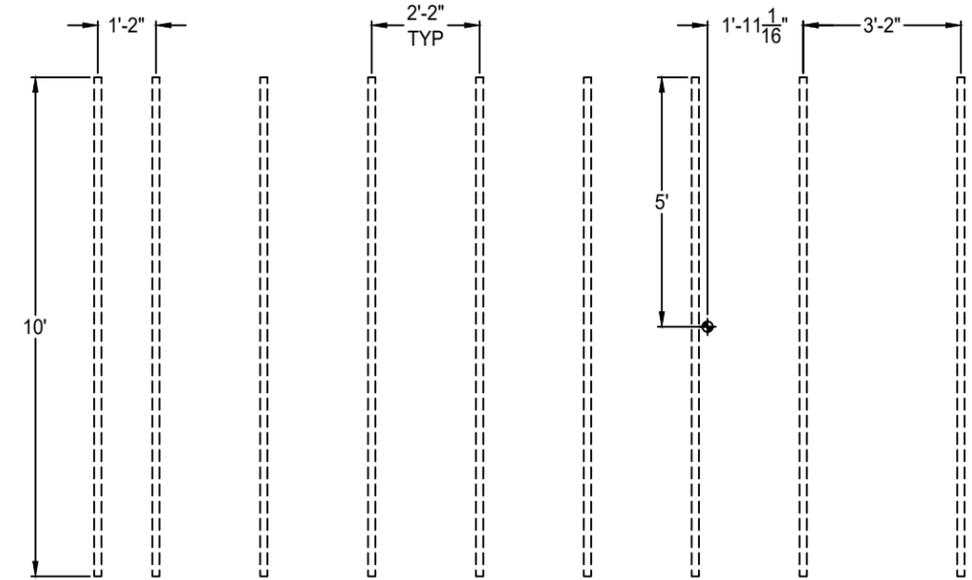
PRICE SUPPLIED GASKET TO BE INSTALLED IN FIELD BY OTHERS

FIELD SUPPLIED AND INSTALLED FASTENERS MUST NOT PROTRUDE INTO THE SUPPORT STRUT AT ANY POINT WHICH WOULD INTERFERE WITH POSITIONING OF THE FIXING BLOCK (REF. VENDOR EQUIPMENT DRAWINGS)

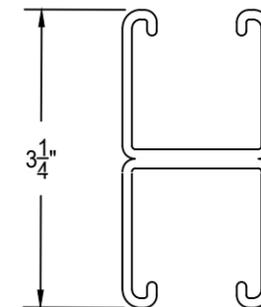


HGWC CENTER TO CENTER = SUPPORT STRUT CENTER TO CENTER - 1 3/4"

CEILING LEVEL SUPPORT STRUT LAYOUT - HYBRID OR/IMAGING SUITE



CEILING LEVEL SUPPORT STRUT = 90 ft.



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

PRICE | **CRITICAL ENVIRONMENTS**

Project:

272986

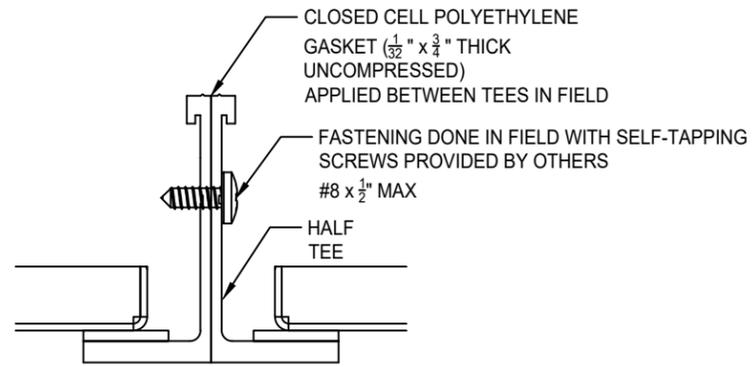
Revision: 0

05-01-2021

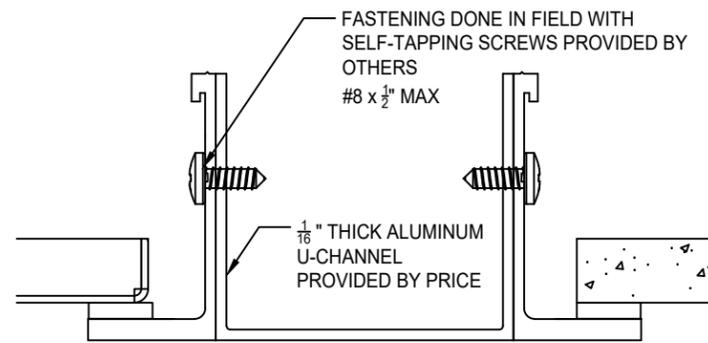
- CEILING SYSTEM SUPPORT STRUT GRID AND ALL SECONDARY SUPPORT TO STRUCTURE TO BE DESIGN, COORDINATED, PROVIDED, AND INSTALLED BY OTHERS
- CEILING LEVEL SUPPORT STRUT INTEGRATION DETAILS REPRESENT PRICE RECOMMENDATIONS AND BEST PRACTICE.
- PRICE CEILING SYSTEM HAS BEEN DESIGNED TO INTEGRATE WITH CEILING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

HGWC

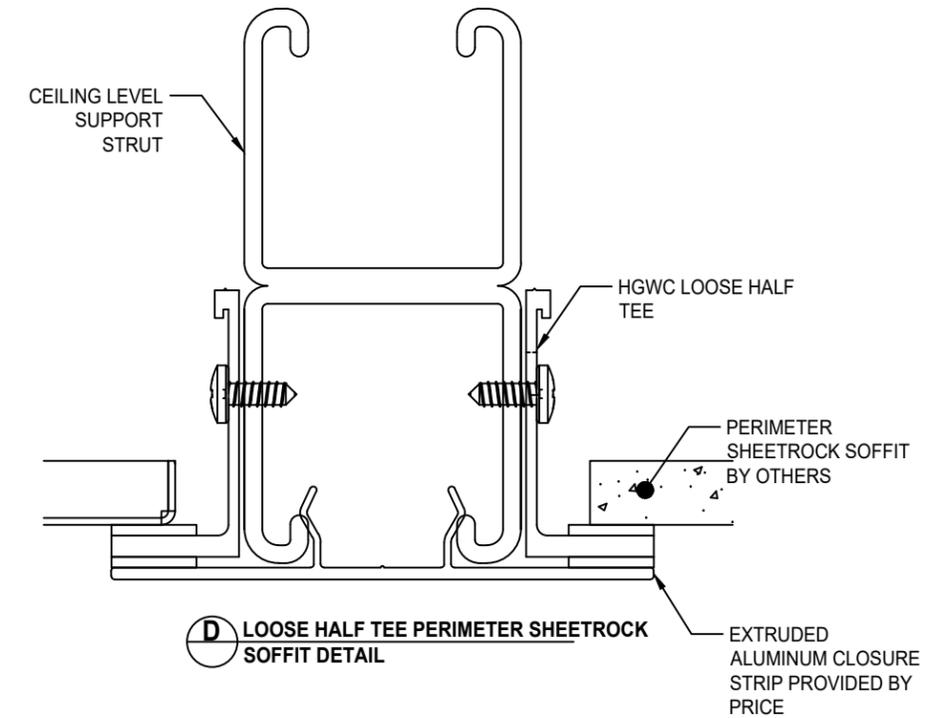
HOSPITAL GRADE WELDED CEILING SYSTEM HGWC & UNISTRUT INTEGRATION DETAILS



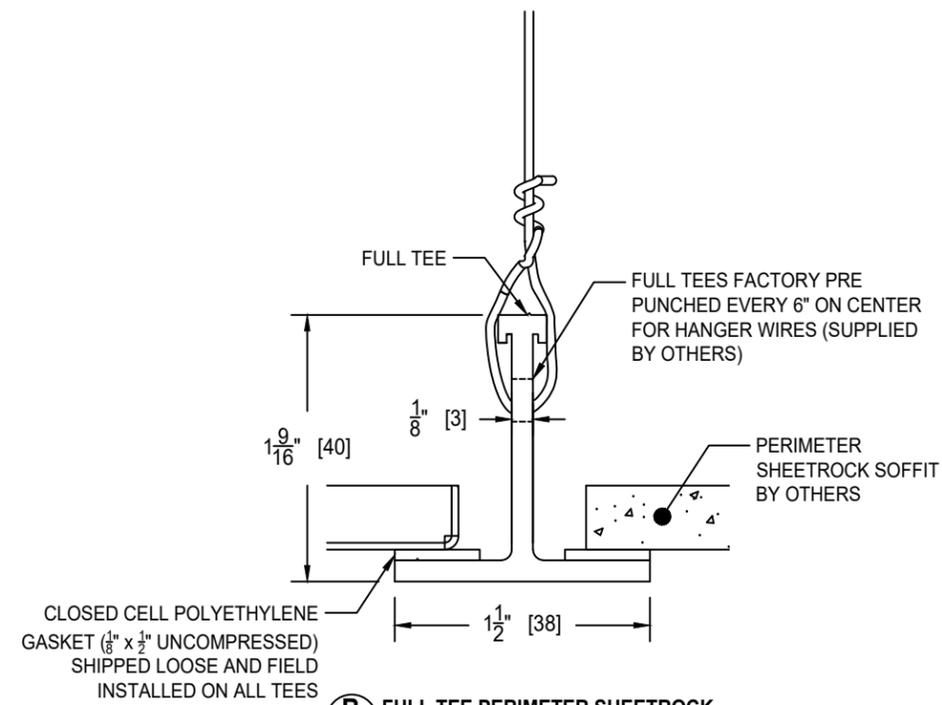
A HALF TEE FIELD JOINT



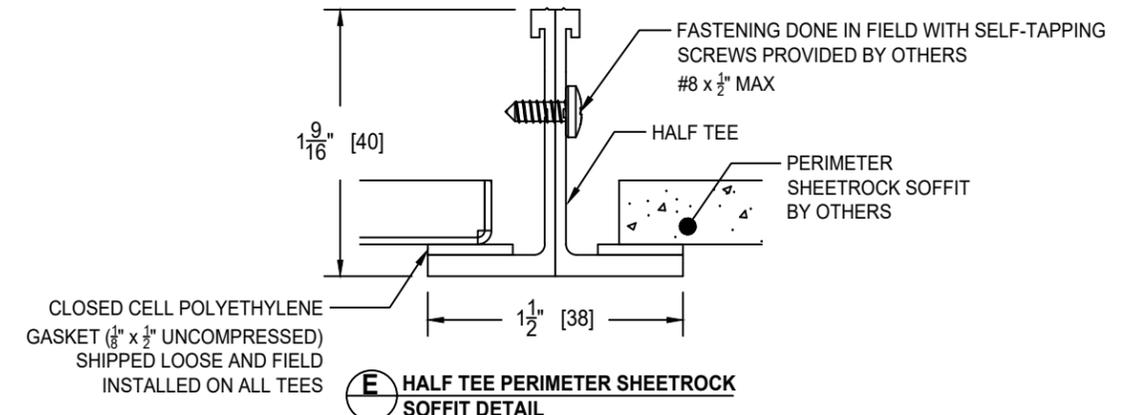
C U CHANNEL DETAIL



D LOOSE HALF TEE PERIMETER SHEETROCK SOFFIT DETAIL



B FULL TEE PERIMETER SHEETROCK SOFFIT DETAIL



E HALF TEE PERIMETER SHEETROCK SOFFIT DETAIL

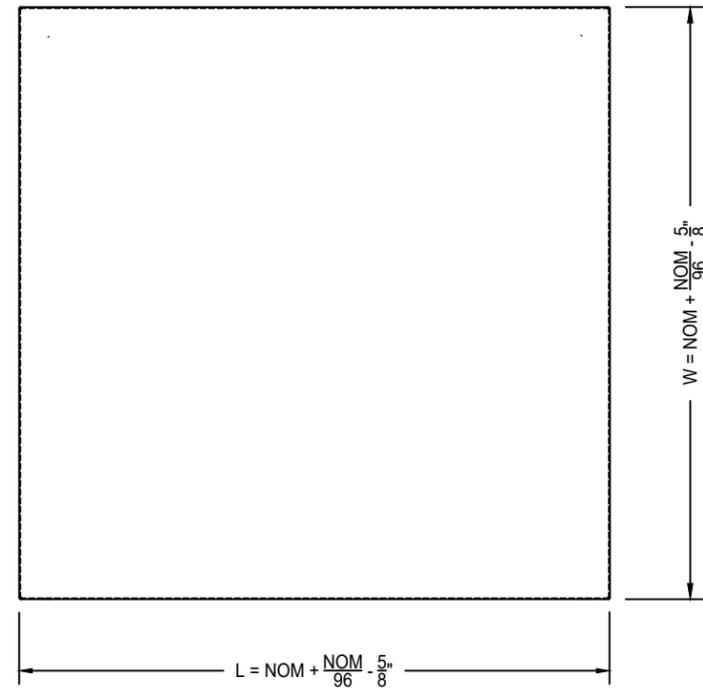
price | **CRITICAL ENVIRONMENTS**

Project:		
272986	Revision: 0	05-01-2021

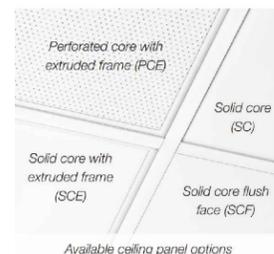
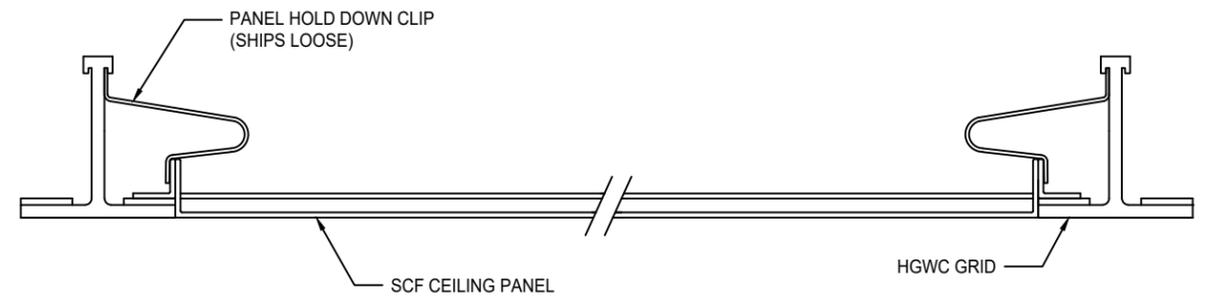
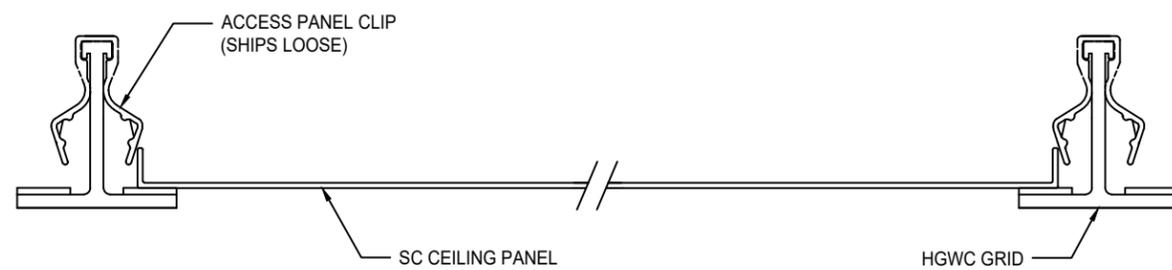
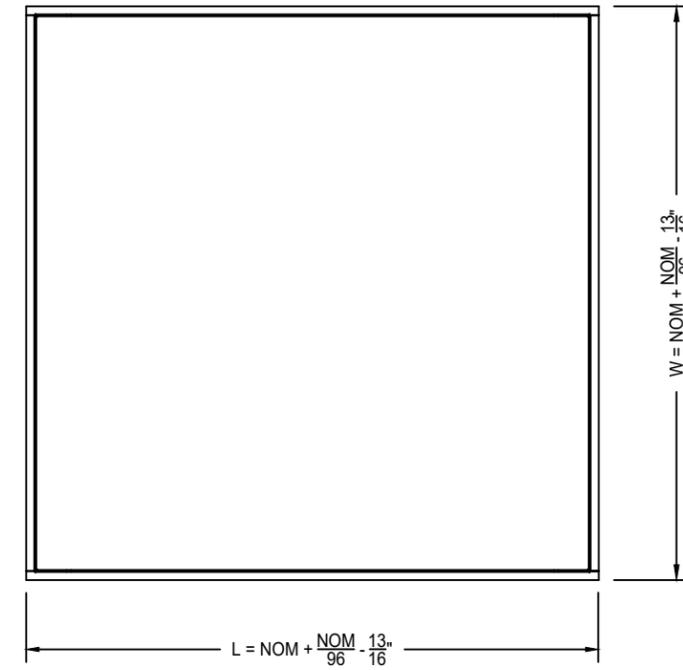
HGWC

HOSPITAL GRADE WELDED CEILING SYSTEM CEILING PANELS

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:

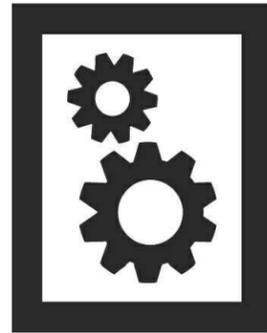
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Revision: 0

05-01-2021

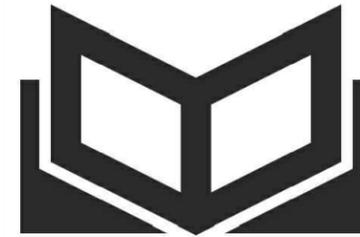
HGWC

HOSPITAL GRADE WELDED CEILING SYSTEM SUPPORTING CONTENT



MANUALS

HOSPITAL GRADE WELDED CEILING SYSTEM MANUAL
HOSPITAL GRADE WELDED CEILING SYSTEM WITH INTEGRATED UNISTRUT MANUAL



BROCHURES

OPERATING ROOM HVAC DESIGN GUIDE
HOSPITAL GRADE WELDED CEILING PROJECT LIST



CATALOG

HOSPITAL GRADE WELDED CEILING SYSTEM CATALOG



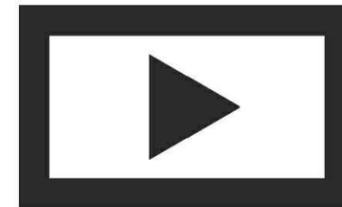
CASE STUDIES

CRITICAL ENVIRONMENTS CASE STUDY LIBRARY



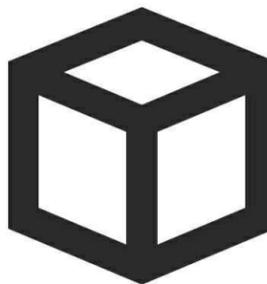
SPECIFICATIONS

HOSPITAL GRADE WELDED CEILING SYSTEM SPECIFICATION



VIDEOS

HIGH PERFORMANCE MANUFACTURING ON CRITICAL ENVIRONMENTS PRODUCTS
OPERATING ROOM CEILING SYSTEMS



REVIT FILES

LAYOUT A - TRADITIONAL OR REVIT FILE
LAYOUT B - HYBRID OR / IMAGING SUITE REVIT FILE



price | **CRITICAL ENVIRONMENTS**

Project:

272986

Revision: 0

05-01-2021