



Addendum No.: 3

Date Of Addendum: 4/26/2019

CT DAS • Construction Services • Office of Legal Affairs, Policy, and Procurement
Renovations of Second & Third Floors
White Hall
Western Connecticut State University
181 White Street, Danbury, CT
BI – RD – 299

Original Bid Due Date / Time:	May 1, 2019	1:00 PM
Revised Bid Due Date / Time:	May 8, 2019	1:00 PM

Previous Addendums: Addendum #2 dated 4/24/2019, Addendum #1 dated 4/8/2019

TO: Prospective Bid Proposers:

This Addendum forms part of the "Contract Documents" and modifies or clarifies the original "Contract Documents" for this Project dated 1/21/2019. Prospective Bid Proposers shall acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal Form.

Failure to acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal Form shall subject Bid Proposers to disqualification.

The following clarifications are applicable to drawings and specifications for the project referenced above.

Item 1:

Section 5.1 states the requirement found in C.G.S. Section 4a-60g(e) that an SBE or MBE awarded a set aside contract/subcontract shall perform not less than thirty percent of the contract work with its own workforce as well as perform fifty percent of the work under its contract.

Item 2:

In Section 095113 ACOUSTICAL PANEL CEILINGS, Paragraph 2.4 METAL SUSPENSION SYSTEM

DELETE: Paragraph C. in its entirety

SUBSTITUTE:

- C. Wide-Face, Capped, Double-Web, Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet; prepainted, electrolytically zinc coated, or hot-dip galvanized, G30 (Z90) coating designation; with prefinished 15/16-inch- (24-mm-) wide metal caps on flanges.
1. Structural Classification: Intermediate-duty system.
 2. End Condition of Cross Runners: Override (stepped) type.
 3. Face Design: Flat, flush.
 4. Cap Material: Cold-rolled steel or aluminum.
 5. Cap Finish: Painted White

Item 3:

Substitution Request for Reveal-Edge Tile is rejected (attached). See Item 2 above.

Item 4:

Substitution Request for HVAC Equipment is Approved (attached).



Addendum No.: 3

Date Of Addendum: 4/26/2019

Item 5:

Substitution Request for Aiphone Equipment is not required:

SECTION 281300 SECURITY AND ACCESS CONTROL

Delete Paragraph 2.2 VIDEO INTERCOM COMMUNICATIONS SYSTEM in its entirety.

Item 6:

Clarification to the Hardware Schedule in Section 087100.3.9.A: All new doors to receive 3 hinges per leaf: McKinneyT4A3786NRPT4B 4-1/2" x 4-1/2".

Item 7:

Section 081416-4.2.4.B Metal Frames for Light openings in Fire-rated doors shall apply.

Item 8:

Sheet A6.04 Door Schedule Doors 220-7, 220-8, 220-15, 220-16 shall be 3'-0"x6'-8" x 1-3/4".

Item 9:

Hardware for Door BO31 is indicated on Page 23 of 23 in Section 087100 DOOR HARDWARE.

Item 10:

Section 081213-5 2.6.A.3. Delete in its entirety. Terminated stops are not required for this project.

All questions must be emailed (not verbal or by phone) to the consulting Architect/Engineer (Ames & Whitaker Architects, Email: al213@amesandwhitaker.com) with copies sent to the DAS/CS Project Manager (Anthony DeNapoli, Associate Project Manager, Email: Anthony.DeNapoli@ct.gov)

End of Addendum 3

Mellanee Walton, Associate Fiscal Administrative Officer
State of Connecticut
Department of Administrative Services, Construction Services
Office of Legal Affairs, Policy, and Procurement
450 Columbus Boulevard, Suite 1302
Hartford, CT 06103



7001
 Equal or Substitute
 Product Request

Page 1 of 2

Request Phase:	Pre-Bid <input checked="" type="checkbox"/>	Post Bid <input type="checkbox"/>	(See Article 15 Materials: Standards, General Conditions)	
(If Pre-bid only) Current Bid Due Date:	5/1/19	Request No.:	2	Dated: 4/15/19
To:	State of Connecticut Department of Administrative Services, Construction Services	DAS Project No.:	31-RD-299	
		Project Name / Location:	Western Conn State University Whitethall	
References:	Specification(s):	Section(s):	238127	Paragraph(s): 2.1 A.
	Drawing(s):	Drawing(s) No(s):	NA	Detail(s) No(s): NA
Contractually Specified Product:	Mitsubishi "City Multi"			
Contractor Proposed Product:	Hitachi "Smartflex"			
Proposed Product Is:	Equal:	<input checked="" type="checkbox"/>	Substitute:	<input type="checkbox"/>
	Model No.:			
IMPORTANT: See Attached Data For Both Specified And Proposed Products As Required By Article 15 General Conditions.				
Data attached:	Drawings:	<input type="checkbox"/>	Product Data:	<input checked="" type="checkbox"/>
	Tests:	<input type="checkbox"/>	Other:	See Attached Product Data.
Reason(s) for not providing the Specified Product:				
Hitachi "Smartflex" is the same product as York "Gen 2". Which is an acceptable manufacturer in Spec Section 238127 2.1 A.				
Similar Installation:	Project Name:	Smalley 21. School	Architect's Name:	Ames + Whitaker
	Project Location:	New Britain, CT	Owner's Name:	Town of New Britain
			Date Installed:	4/1/19



7001
 Equal or Substitute
 Product Request

Page 2 of 2

Will proposed substitution impact other parts of the Work?	No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	If Yes Attach An Explanation.
Will proposed substitution increase Contract Time?	No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	By Number Of Calendar Days NA
Actual Dollar Savings to the State of Connecticut if substitution is accepted:		€ NA	
The Undersigned Certifies: That The Proposed Request For An Equal Or Substitute Product Conforms To All Of The Requirements Of Division 01 General Requirements, Section 01 25 00 Substitution Procedures.			
Request Submitted By General Contractor / CMR:		Aeron Corp. <small>(Typed Name)</small>	
By:	Kerry Eisenlau <small>(Typed Name)</small>	Account Man. <small>(Title)</small>	[Signature] <small>(Signature)</small>
			4/15/19 <small>(Date)</small>
Contractor / CMR Send copies to:		DAS PM: <input type="checkbox"/>	CA: <input type="checkbox"/>
Consultant's Request Received on (Date):		4/15/19	
Consultant's Review - This Substitution Request is:			
<input checked="" type="checkbox"/>	Approved:	<i>(Submittal(s) in accordance with Div. 01 General Requirements, Section 01 33 00 Submittal Procedures.)</i>	
<input type="checkbox"/>	Approved as Noted:	<i>(Submittals in accordance with Div. 01 General Requirements, Section 01 33 00 Submittal Procedures.)</i>	
<input type="checkbox"/>	Rejected:	Use Specified Materials.	
<input type="checkbox"/>	Rejected:	Request Not Received Within Specified Time Period - Use Specified Materials.	
Reviewed Issued By:			
Name:	Adam Sterrer <small>(Typed Name)</small>		
Title:	Senior Mechanical Engineer (CES)		
Signature:	[Signature] <small>(Signature)</small>	4/17/19 <small>(Date)</small>	
CONSULTANT Send copies to:		DAS PM <input checked="" type="checkbox"/>	CA <input type="checkbox"/>
		Chief Architect <input checked="" type="checkbox"/>	Chief Engineer <input type="checkbox"/>
If Approved: As noted by Consultant,			
DAS Chief Architect:		[Signature] <small>(Signature)</small>	4/24/2019 <small>(Date)</small>
Copies: Project File Red R2			

END

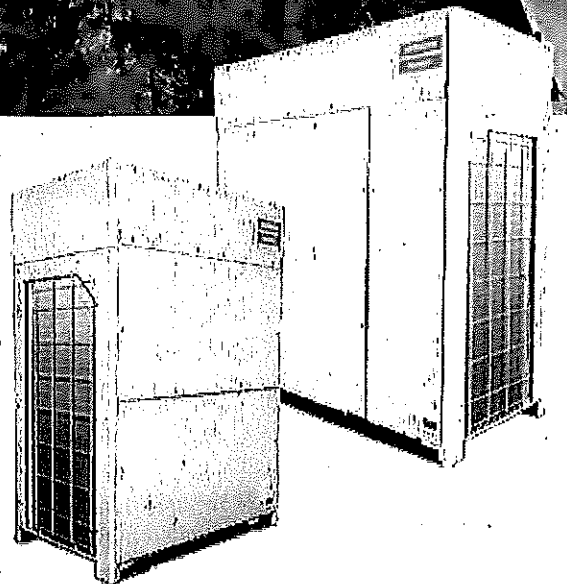
VARIABLE REFRIGERANT FLOW SYSTEMS



HITACHI SMARTFLEX™

VRF GEN II

FLEXIBILITY, PERFORMANCE AND CONTROL



HITACHI

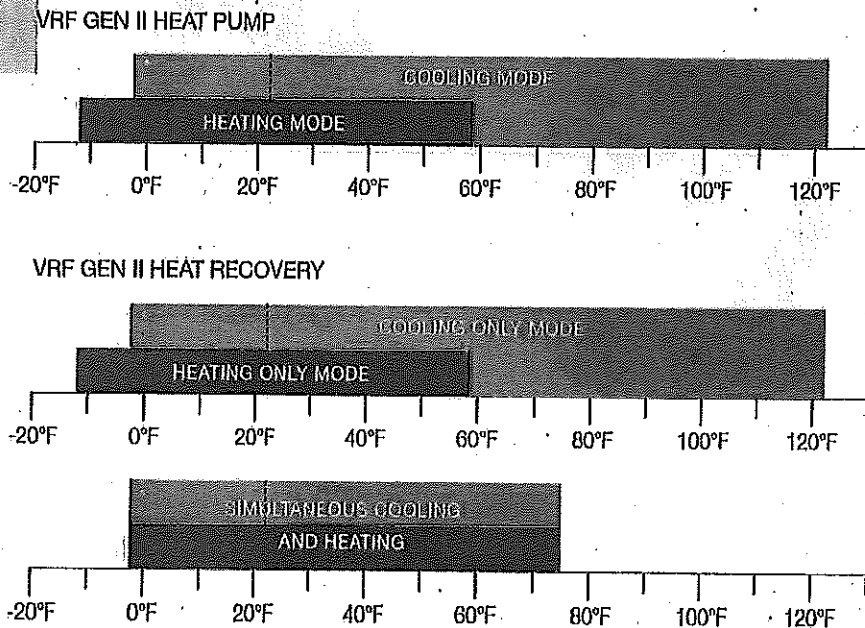
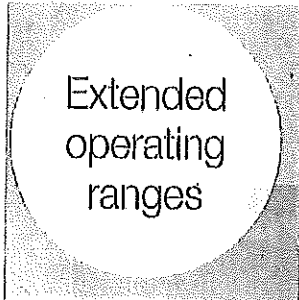
SMARTFLEX™

Expanding the possibilities

STATE-OF-THE-ART DESIGN TAKES PERFORMANCE TO NEW LEVELS

Our re-engineered Outdoor Units boast an extended operating range, providing exceptional heating and cooling performance even under extreme conditions. Advanced technology enables cooling when the ambient outdoor temperature is as low as -4°F or as high as

122°F — and heating when the ambient outdoor temperature is -13°F to 59°F. This extended operating range makes Hitachi SmartFlex™ VRF systems an excellent option for projects in demanding environments, expanding your business opportunities.



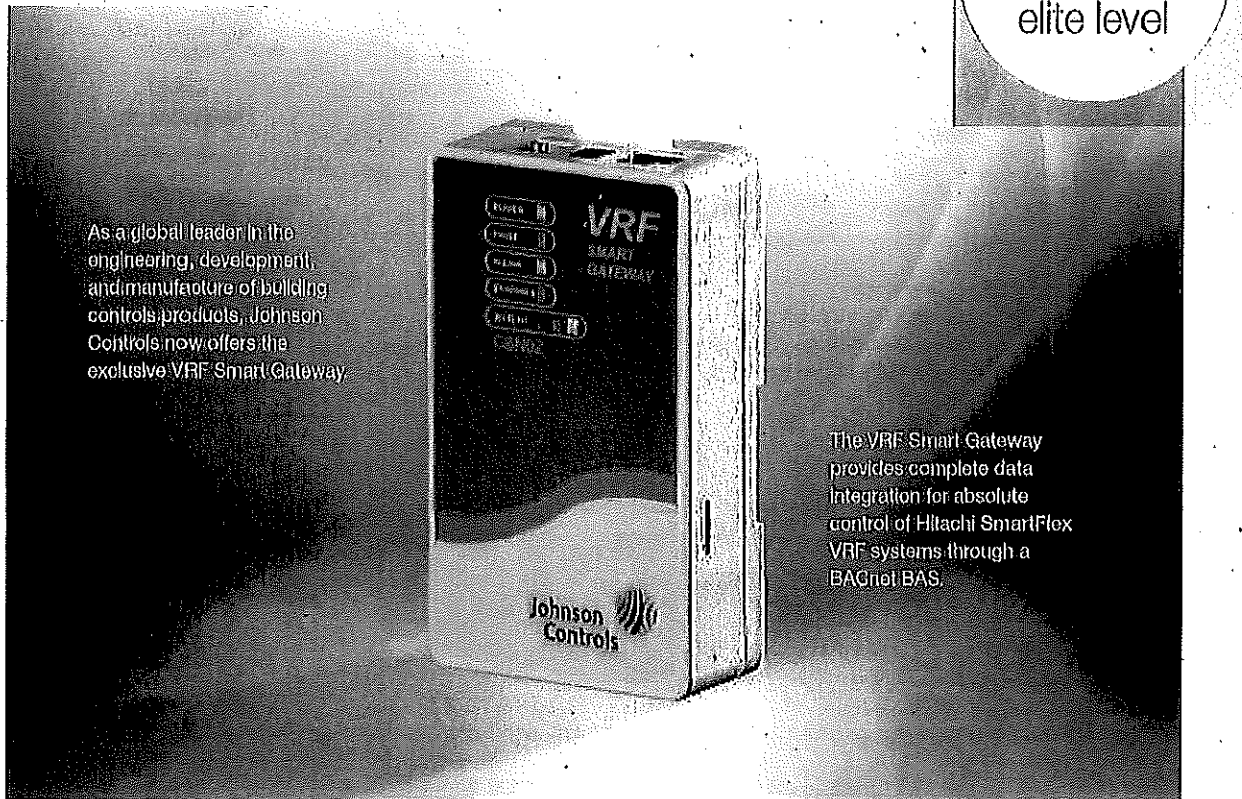
*With low-ambient kit installed, the cooling operating range extends as low as -4°F.

Extended outdoor ambient temperature operating ranges make Hitachi SmartFlex™ VRF Gen II an excellent choice even in extreme climates.

REVOLUTIONARY TECHNOLOGY FOR TRULY SIMPLE INTEGRATION

The new Johnson Controls VRF Smart Gateway makes for fast and easy integration of Hitachi SmartFlex™ VRF technology with BACnet™ Building Automation Systems (BAS) such as our Facility Explorer® BAS. The VRF Smart Gateway works over Ethernet to discover all point data from Hitachi SmartFlex VRF Indoor and Outdoor Units and makes the data available through the BAS. System

data is quickly integrated, organized, and automatically formatted to conform to BAS conventions, saving time and expense. For the first time, the entire system – including all Hitachi SmartFlex VRF components – is accessible and controllable through the BAS interface. And all detailed data is available for every component across the entire system, providing 24/7 control from a laptop, tablet or smartphone.



Integration
on an
elite level

As a global leader in the engineering, development, and manufacture of building controls products, Johnson Controls now offers the exclusive VRF Smart Gateway.

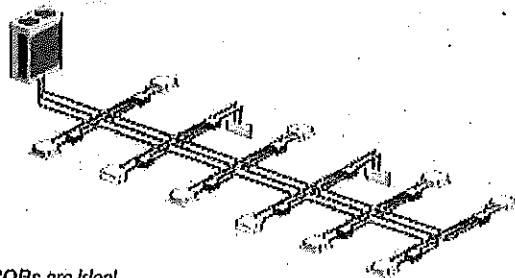
The VRF Smart Gateway provides complete data integration for absolute control of Hitachi SmartFlex VRF systems through a BACnet BAS.

MORE OPTIONS, SUPERIOR CAPABILITIES AND GREATER DESIGN FREEDOM

New Multi-Port Change-Over Boxes give you freedom when designing Heat Recovery systems. We now offer a full line of change-over box options: Single-Port Change-Over Boxes in two capacities and Multi-Port Change-Over Boxes with 4, 8 and 12 ports.

Multi-Port Change-Over Boxes easily accommodate future expansion.

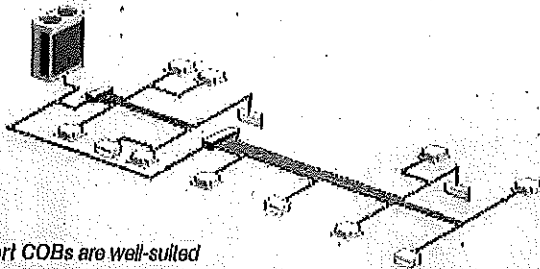
More options provide greater flexibility for your projects.



Single Port COBs are ideal for single zones that require individual heating and cooling control.



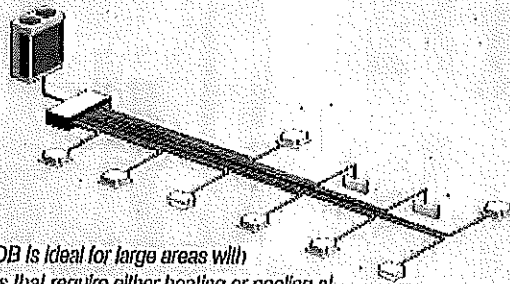
Single Port Change-Over Box



4 and 8 Port COBs are well-suited to medium-sized areas that require either heating or cooling at various temperature settings. The 4 and 8 Port COBs provide flexibility and minimize mechanical and electrical installation costs.



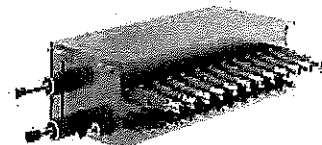
4 Port Change-Over Box



A 12 Port COB is ideal for large areas with multiple zones that require either heating or cooling at various temperature settings. The 12 Port COB has a maximum total capacity of 22.7 tons. It provides flexibility and minimizes mechanical and electrical installation costs.



8 Port Change-Over Box



12 Port Change-Over Box

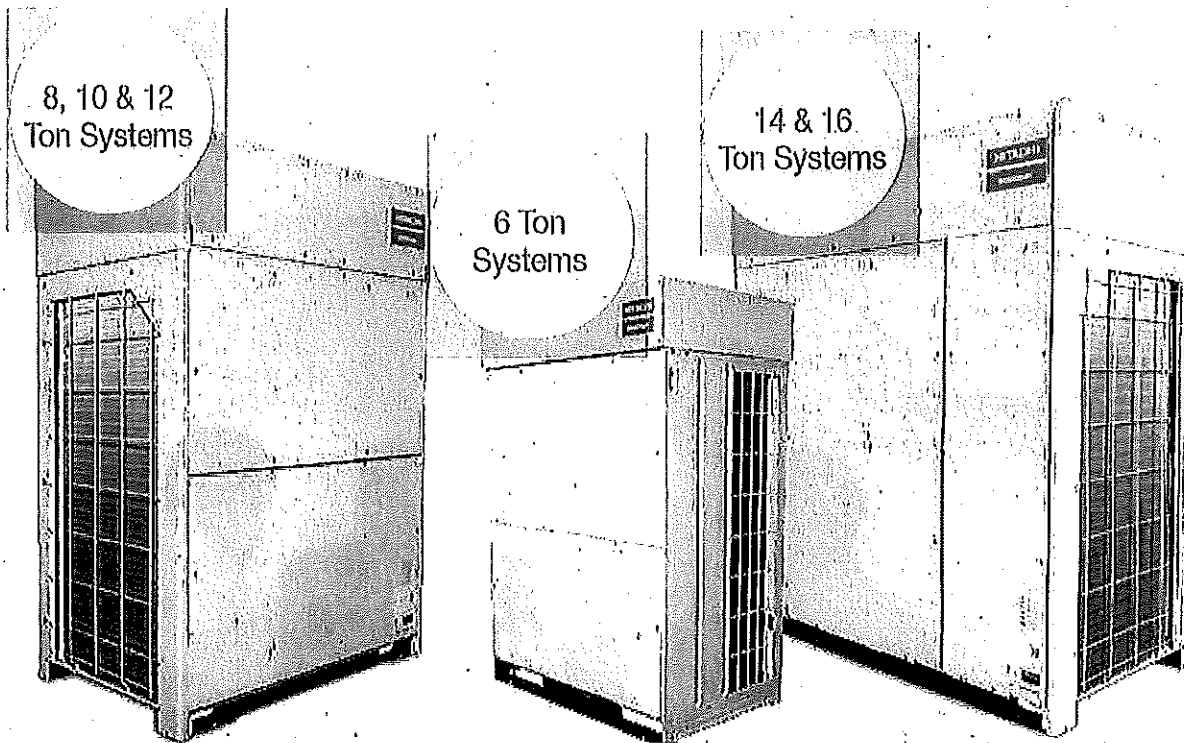
Hitachi SmartFlex™ VRF Heat Recovery systems utilize 3-pipe technology. The above drawings are for illustrative purposes only.

MORE OUTDOOR UNITS FOR PRECISELY SIZED SYSTEMS

Hitachi SmartFlex™ VRF Gen II takes performance, design flexibility and system control to a whole new level. With technical enhancements, groundbreaking integration capabilities and a greater selection of products, Hitachi SmartFlex VRF Gen II makes VRF technology a smarter, easier choice than ever before.

Redesigned Outdoor Units in new capacities increase layout options and enable the design of more economical configurations. With the new additions, fewer modules are needed to achieve up to a 36-ton capacity in a Heat Pump or Heat Recovery system.

The reduced weight and smaller footprint of our Outdoor Units give you more placement options and allow you to work within even more restrictive parameters than in the past.



The new Outdoor Unit line features single modules in 6, 8, 10, 12, 14 and 16 ton capacities. New modules expand design options to meet diverse project needs.

Rated Capacity (Ton)	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Number of Modules	1						2						3			
Capacity of Module(s)	6	8	10	12	14	16	12 6	10 10	12 10	12 12	14 12	16 12	16 14	12 10	12 10	12 12

UNPARALLELED SERVICE FROM RECOGNIZED INDUSTRY EXPERTS

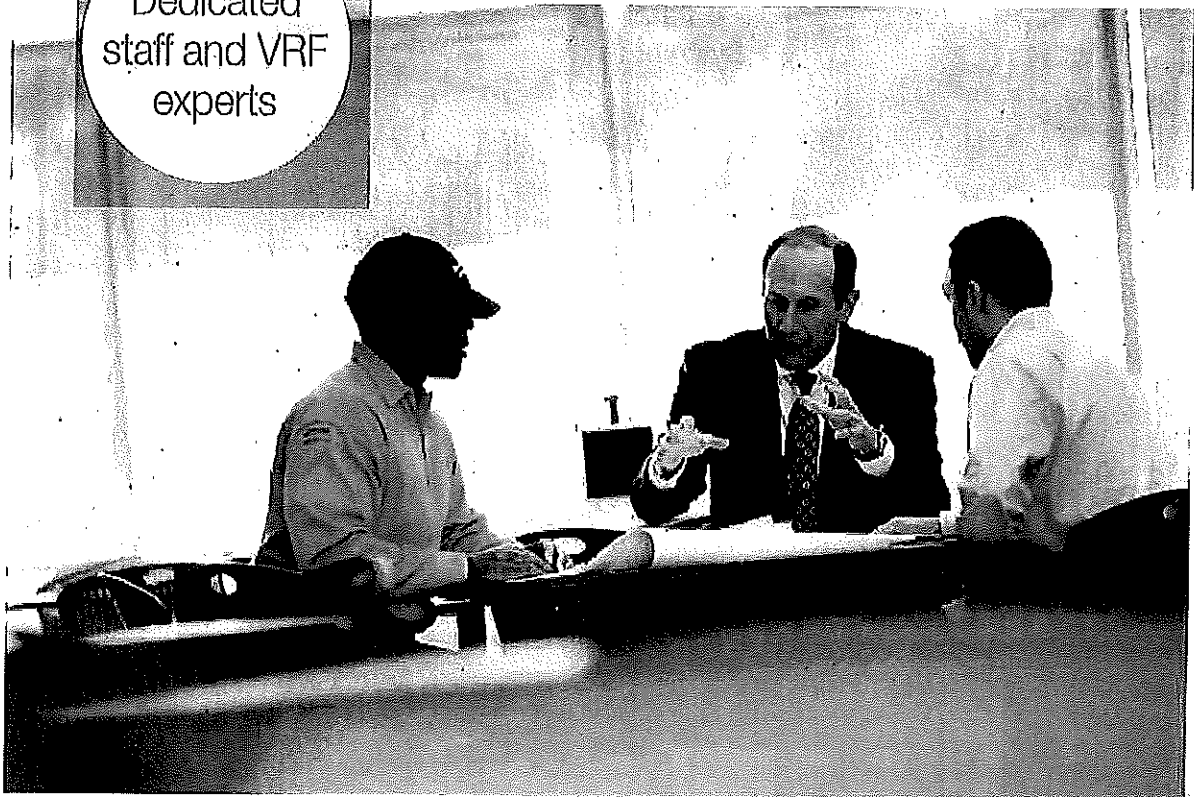
Comprehensive, ongoing support completes the package. When you purchase a Hitachi SmartFlex™ VRF Gen II system, you can expect exceptional support from a dedicated staff that includes VRF experts with decades of field experience.

From initial design to installation and maintenance, you can call upon our technical support team to answer questions and provide guidance. Whatever your needs, we will connect you with experts who can address them quickly and completely. We also offer an extensive line of training classes to ensure you have the knowledge and

skills to effectively and efficiently design and install Hitachi SmartFlex VRF systems.

With Johnson Controls as your partner, you will receive unequalled customer support from an impressive team of experts that starts at your local level and extends to our global team. Add a world-class training center with multiple working systems and expert instructors along with a commitment to ongoing product innovation, and the choice is simple. Johnson Controls is the smart partner for VRF technology solutions.

Dedicated
staff and VRF
experts

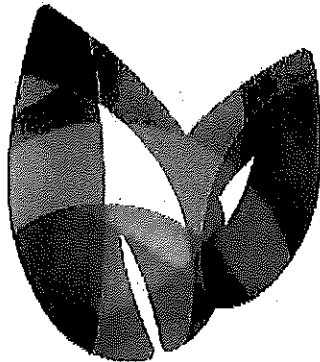
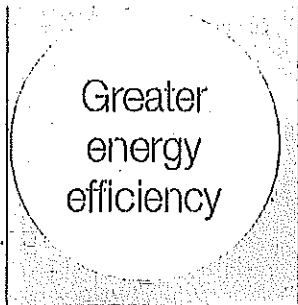


VARIABLE REFRIGERANT FLOW SYSTEMS

ADVANCED TECHNOLOGY FOR ENHANCED PERFORMANCE

Hitachi SmartFlex™ VRF Gen II takes VRF technology to the next level with both superior performance and an extended product line:

- 14 different types of Indoor Units increase flexibility and savings:
 - A multitude of sizes means more design options
 - Up to 25% improvement in static pressure in medium- and high-static Indoor Units means more design flexibility
 - 4-way cassette, wall-mount and ducted medium- and high-static units are available in additional capacities for more options
- The re-engineered Inverter compressor provides peak performance and boosts energy efficiency:
 - Smooth drive control modulates in smaller increments resulting in approximately 30% less power draw at 30% system load
 - Dual inverter compressors are standard in the 8, 10, 12, 14, and 16 ton Outdoor Units for increased efficiency
- Redesigned Outdoor Units provide exceptional performance:
 - New dual fan design increases air flow up to 23% while lowering sound levels
 - Extended connection ratios are some of the best in the industry — up to 150% for all Outdoor Unit capacities
- Vertical piping distance limits extend to 360 feet for greater layout flexibility



IMPRESSIVE AHRI
CERTIFIED EFFICIENCY RATINGS

IEER up to 26.5
EER up to 14.9
COP up to 4.25
SCHE up to 32.2



For more details on terms, conditions, and limitations, please refer to the warranty certificate.

Contact your sales person or visit our warranty support center at BE-VRFWarranty@jci.com for specific eligibility requirements.



INDUSTRY CERTIFIED

Hitachi SmartFlex™ VRF systems are Intertek ETL Listed (Canada & USA), signifying that they comply with the standard of Heating and Cooling Equipment (ANSI/UL 1995 and CAN/CSA G22.2 No. 234-11, 4th Edition, October 14, 2011). The systems are also certified by the Air Conditioning, Heating & Refrigeration Institute.

SMARTFLEX-HVAC.COM

SmartFlex™ and Facility Explorer® are registered trademarks of Johnson Controls, Inc. and Hitachi SmartFlex products are manufactured by Johnson Controls - Hitachi Air Conditioning.

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7001
 Equal or Substitute
 Product Request

Page 1 of 2

Request Phase: Pre-Bid Post Bid (See Article 15 Materials Standards, General Conditions)

(If Pre-bid only) Current Bid Due Date: 4/12/19 Request No.: _____ Dated: 4-5-19

To: State of Connecticut
 Department of Administrative Services,
 Construction Services

DAS Project No.: BI-RD-299

Project Name/
 Location: WHITE HALL DCSU
 DANBURY CT

References: Specification(s) Section(s): 095113 Paragraph(s): 2.3

Drawing(s) Drawing(s) Note(s) _____ Detail(s) Note(s) _____

Contractually Specified Product: CERTAIN BOND SQUARE SQA-457
 SQUARE EDGE

Contractor Proposed Product: CERTAIN BOND SQUARE SQA-450
 REVEAL EDGE

Proposed Product Is: Equal Substitute Model No. _____

IMPORTANT:
 See Attached Data For Both Specified And Proposed Products
 As Required By Article 15 General Conditions.

Data attached: Drawings: Product Data: Reports: Samples:
 Tests: Other: _____

Reason(s) for not providing the Specified Product:
 SQUARE EDGE TILE IS NOT RECOMMENDED
 FOR 9/16 GRID

Similar Installation:
 Project Name: _____ Architect's Name: _____
 Project Location: _____ Owner's Name: _____
 Date Installed: _____



7001
 Equal or Substitute
 Product Request

Page 2 of 2

Will proposed substitution impact other parts of the Work?	No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	If Yes Attach An Explanation.
Will proposed substitution increase Contract Time?	No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	By Number Of Calendar Days <input type="text"/>
Actual Dollar Savings to the State of Connecticut if substitution is accepted: \$ <input type="text"/>			
The Undersigned Certifies: That The Proposed Request For An Equal Or Substitute Product Conforms To All Of The Requirements Of Division 01 General Requirements, Section 01 25 00 Substitution Procedures.			
Request Submitted By General Contractor / CMR: <input type="text"/> <small>(Firm's Typed Name)</small>			
By:	<input type="text"/> <small>(Typed Name)</small>	<input type="text"/> <small>(Title)</small>	<input type="text"/> <small>(Signature)</small>
			<input type="text"/> <small>(Date)</small>
Contractor / CMR Send copies to: DAS PM: <input type="checkbox"/> CA: <input type="checkbox"/>			
Consultant's Request Received on (Date): <u>4/16/2019</u>			
Consultant's Review - This Substitution Request is:			
<input type="checkbox"/>	Approved:	<small>(Submittal(s) in accordance with Div. 01 General Requirements, Section 01 33 00 Submittal Procedures.)</small>	
<input type="checkbox"/>	Approved as Noted:	<small>(Submittal in accordance with Div. 01 General Requirements, Section 01 33 00 Submittal Procedures.)</small>	
<input checked="" type="checkbox"/>	Rejected:	Use Specified Materials. TRACK HAS BEEN CHANGED IN APPENDIX # 2	
<input type="checkbox"/>	Rejected:	Request Not Received Within Specified Time Period - Use Specified Materials	
Reviewed Issued By:			
	Name:	<u>ALAN LAGOCKI</u> <small>(Typed Name)</small>	
	Title:	<u>ARCHITECT</u>	
	Signature:	<u>Alan Lagocki</u> <small>(Signature)</small>	<u>4/17/2019</u> <small>(Date)</small>
CONSULTANT Send copies to: DAS PM <input type="checkbox"/> CA <input type="checkbox"/> Chief Architect <input type="checkbox"/> Chief Engineer <input type="checkbox"/>			
If Approved: As noted by Consultant, DAS Chief Architect: <input type="text"/> <small>(Signature)</small> <input type="text"/> <small>(Date)</small>			
Copies: Project File, Red R2			

END

Better acoustics for a better experience.



SERENO™ FINE FISSURED HIGH NRC / CAC

THE HIGHEST NRC/CAC COMBINATION FINE FISSURED PANEL AVAILABLE.

In the ongoing pursuit of acoustically sound spaces that support comfort, focus and wellness, there's an effective new option for improving occupant experience.

Sereno outperforms comparable ceiling products in sound blocking and absorption - making it the superior spec for healthcare spaces, schools, open plan areas and other commercial spaces where occupant comfort is a priority.

For indoor environments of exceptional comfort, choose the ceiling with exceptional acoustics.

Compare to competitor 0.70/40 and 0.75/35 products:

- Sereno 2x4 trim edge fine fissured panel - 0.75 NRC/42 CAC rating
- Sereno 2x2 trim edge fine fissured panel - 0.75 NRC/40 CAC rating

Create an exceptional occupant experience with a superior fine fissured acoustic ceiling. Sereno.

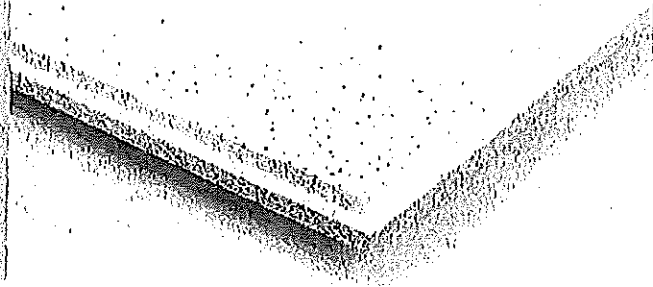
CertainTeed
SAINT-GOBAIN
Ceilings

THE SOLUTIONS YOU NEED. FROM CERTAINTEED.

The consistent look of fine fissured in a smart range of performance and budget options.

FINE FISSURED CEILINGS

- VOC compliant
- Material: Mineral fiber
- 100% non-directional fissure pattern coordinates across all products
- Extremely low particle emissions
- Health Product Declaration (HPD) available
- Third-party verified Environmental Product Declaration (EPD) available



For superior overall acoustics SERENO FINE FISSURED HIGH NRC / CAC

FEATURES & BENEFITS

- Superior acoustics combine high in-room sound absorption with room-to-room sound blocking capabilities for privacy
- Resists chipping and installs cleanly for a more efficient final walk-through
- Complies with LEED® v4 for Schools classroom acoustics prerequisite

APPLICATIONS

- Universities
- Public Schools
- Healthcare Spaces
- Open Plan Offices
- Corridors
- Areas with HVAC Noise Concerns
- Libraries / Media Centers
- Computer Rooms
- Other Commercial Buildings / Space Applications

COMPETITOR COMPARISON

	MANUFACTURER	NRC	CAC
2x4 TRIM EDGE PANEL	CERTAINTEED	0.75	42
	ARMSTRONG	0.70	40
		0.75	35
	USG	0.70	40
0.75		35	
2x2 TRIM EDGE PANEL	CERTAINTEED	0.75	40
	ARMSTRONG	0.70	40
		0.75	35
	USG	0.75	35

Also available in Reveal and Narrow Reveal

For added surface durability SCHOOL BOARD FINE FISSURED

FEATURES & BENEFITS

- Up to 25% higher surface hardness than conventional wall-toed ceiling products per ASTM C 367 testing
- Available in fire-rated (Protectone®) versions

APPLICATIONS

- Schools
- Day Care Centers
- Corridors
- Commercial Interior Spaces
- Courts
- Other Commercial Buildings / Space Applications

For high in-room sound absorption FINE FISSURED HIGH NRC

FEATURES & BENEFITS

- Excellent for budgeted projects requiring high sound absorption
- Complies with LEED® for Schools classroom acoustics prerequisite

APPLICATIONS

- Schools / Classrooms
- Healthcare Spaces
- Libraries / Media Centers
- Open Plan Areas
- Computer Rooms
- Other Commercial Buildings / Space Applications

For versatility and affordability FINE FISSURED

FEATURES & BENEFITS

- Variety of edge detail options and panel sizes
- High-humidity and sag resistant
- Available in fire-rated (Protectone®) versions

APPLICATIONS

- Schools
- Libraries
- Retail / Department Stores
- Offices
- Other Commercial Buildings / Space Applications

SEE OUR ENTIRE LINE OF FINE FISSURED SOLUTIONS
AT CERTAINTEED.COM/SERENO

certainteed.com/ceilings 800-233-8990

© 2016 CertainTeed Corporation

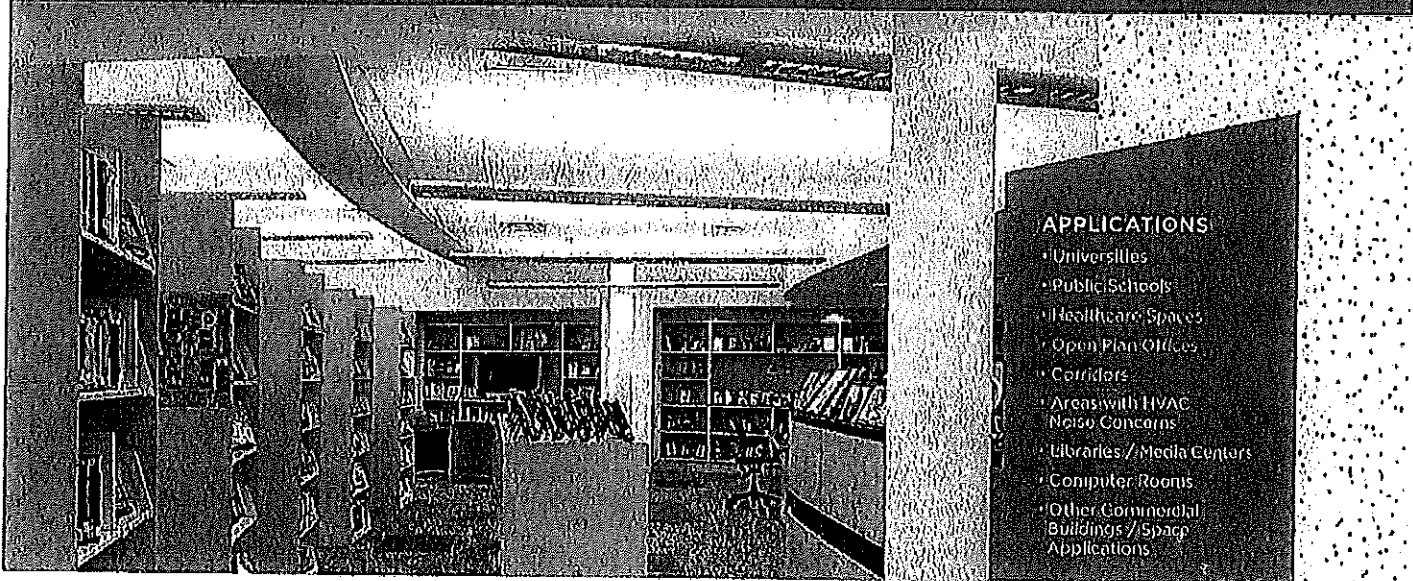
CTC-04-501

CertainTeed
SHEET ROCK
Ceilings

SERENO™ FINE FISSURED

Fissured
Mineral Fiber

Experience faster installations and higher acoustic performance with Sereno Fine Fissured.



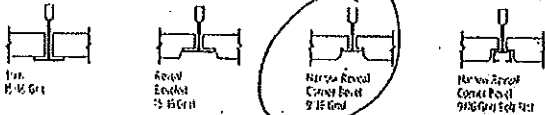
APPLICATIONS

- Universities
- Public Schools
- Healthcare Spaces
- Open Plan Offices
- Corridors
- Areas with HVAC Noise Concerns
- Libraries / Media Centers
- Computer Rooms
- Other Commercial Buildings / Space Applications

FEATURES AND BENEFITS

- Superior acoustical combination provides high in-room sound absorption with room-to-room sound blocking capabilities for privacy
- Cuts quickly and cleanly with minimal dust for cost-efficient installation
- Attractive non-directional fissured pattern to aid in quick installation
- Complies with LEED v4 for Schools classroom acoustics prerequisite
- Meets ANSI S12.60 classroom acoustic guidelines
- Environmental Product Declaration (EPD) available
- Health Product Declaration (HPD) available
- High USDA Certified Biobased content at 90%

SUSPENSION SYSTEM OPTIONS



SPP-450

LEED® v4

RECYCLED CONTENT 70%

- ✓ EA: Optimize Energy Performance
- ✓ EA: Prev. Min. Energy Performance
- ✓ EQ: Interior Lighting
- ✓ MR: PBT Source Reduction (Healthcare)
- ✓ EQ: Acoustic Performance
- ✓ EQ: Prev. Min. Acoustic Performance (Schools)
- ✓ EQ: Low-Emitting Materials
- ✓ EQ: Daylight
- ✓ MR: Material Ingredients (HPDs)
- ✓ MR: Sourcing Raw Materials
- ✓ MR: Environmental Product Declarations (EPDs)
- ✓ MR: Construction and Demolition Waste Management Planning



Customer Support | certainteed.com/ceilings | 800-233-8990






SERENO™ FINE FISSURED

Fissured
Mineral Fiber

All products in this line
feature these attributes:



SERENO FINE FISSURED

	Format	Dimensions (in.)	NRC	CAC	Recycled Content	UL Fire-Rated	Pieces/carton	Sq. Ft./carton	Lbs./carton	Ceilings/pallet	
TRIM											
	SFF-457 HHRC/HCAC SFF-497 HHRC/HCAC	Panels	24 x 24 x 3/4	0.75	41	70%	--	12	48	52	70
		Panels	24 x 48 x 3/4	0.75	42	70%	--	6	48	52	70
REVEAL											
	SFF-454 HHRC/HCAC SFF-494 HHRC/HCAC	Panels	24 x 24 x 3/4	0.70	40	70%	--	12	48	54	70
		Panels	24 x 48 x 3/4	0.70	42	70%	--	6	48	54	70
NARROW REVEAL											
	SFF-450 HHRC/HCAC SFF-490 HHRC/HCAC	Panels	24 x 24 x 3/4	0.75	38	70%	--	12	48	54	70
		Panels	24 x 48 x 3/4	0.75	40	70%	--	6	48	54	70

CAN'T FIND A SITE? Contact your local Sales Representative or call 800-233-8990

PHYSICAL DATA

MATERIAL
Mineral Fiber

ASTM E1264 CLASSIFICATION
Type III, Form 1, Pattern C D

FIRE CLASS (ASTM E1264)
All are Class A per ASTM E84 & CAN S102
Flame Spread: 25 or less
Smoke Developed: 50 or less

VOC EMISSIONS

Independently certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010.

MOLD/MILDEW RESISTANCE

BioShield treatment included for added mold and mildew resistance.

MAINTENANCE

Wipe with a soft cloth or vacuum with brush attachment.

WARRANTY

10-year 104/90 Limited Warranty increases to 15 years when installed with CertainTeed Suspension Systems. Full warranty information can be found at certainteed.com/ceilings.

Customer Support | certainteed.com/ceilings | 800-233-8990

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CertainTeed
SUSPENSION SYSTEMS