Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 03/23/2017
Control Number C-16-003932
Permit Number 16-3415
Permit Issue Date 09/29/2016
Certificate Number 16-3415

Certificate

Construction Code Division

(Certificate of Occupancy)

Identification

Work Site Location: 56 CHAMBERS BRIDGE RD. DSW Brick Township, NJ Block: 671 Lot: 1.01 Qual:

Owner in Fee: FEDERAL REALTY INVESTMENT TRUST

Owner Address: 1626 EAST JEFFERSON ST ROCKVILLE MD 20852

Telephone:

Contractor KANE BUILDERS S&D INC

Address 145 WILLOW GROVE AVE GLENSIDE PA 19038

Telephone: (215) 517-5511 Fax: (215) 517-7787

License Number or Builders Registration Number: Federal Emp. Number:

Home Warranty Number:

Type of Warranty Plan: ☐ State ☐ Private

Use Group: M Construction Classification:

Maximum Live Load: 0 Maximum Occupancy Load: 397

Description of Work/Use: TENANT FIT UP - DSW SHOES

Certificate Comments:

☑ **Certificate of Occupancy**
This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☐ **Certificate of Approval**
This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**
This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**
The following conditions must be met no later than
or the owner will be subject to fine or order to vacate:
This certificate has an expiration date of:
Conditions to be met:

☐ **Certificate of Clearance - Lead Abatement 5:17**
This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

☐ Total removal of lead-based paint hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Clearance - Asbestos Abatement**
This serves notice that based on written certification, asbestos abatement was performed to the following extent.

☐ Total removal of asbestos hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Compliance**
This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**
The following conditions must be met no later than:
or the owner will be subject to fine or order to vacate:
This certificate has an expiration date of:
Conditions to be met:

Construction Official

Fee: $150.00
Check Number: 26383
Collected By: Lauren Helmstetter

Date Printed: 03/23/2017

U.C.C. F260 (rev. 08/05)

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

A. ( ) I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

B. ( ) I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(f)1.ix:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

C. ( ) I further certify that I will perform or supervise the following work:
C.1. ( ) Building C.2. ( ) Fire Protection

I further certify that I will perform the following work:
C.3. ( ) Electrical C.4. ( ) Plumbing

D. ( ) I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals, including such certification as the construction official may require, have been given or will be given prior to pemit issuance.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals, including such certification as the construction official may require, have been given or will be given prior to permit issuance.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

(X) Check if contractor.

Agent Name Peter Lunny- KAne Builders S&D, Inc.

Address 145 Willow Grove Avenue

Glenside, PA. 19038

Telephone (215) 517-5511

Signature P Lunny

III. ( ) LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:23-2.15(b)4.

IV. ( ) HOME ELEVATION: Include Home Elevation Contractor Certification as per N.J.S.A. 52:27D-123.16.

BLOCK 6701 LOT 1.01 QUALIFICATION CODE _____ ADDRESS (SITE) 56 Chambers Bridge PERMIT NO. 16-3413

CONSTRUCTION PERMIT APPLICATION

NEW JERSEY UNIFORM CONSTRUCTION CODE

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII C16-003932

I. IDENTIFICATION

1. Proposed Work Site at: Chambers Bridge Road & Route 70 (Space 29)
2. Name of Owner in Fee: Federal Reakty Investment Trust
   Tel. (240) 478-9791 e-mail JFMiller@federalrealty.com
   Address 50 E Wynnewood Road, Wynnewood, PA. 19096
   (street) (municipality) (zip code)
3. Ownership in Fee: Public _____ Private X
4. Principal Contractor: Kane Builders S&D, Inc. Tel. (215) 517-5511
   Address 145 Willow Grove Avenue e-mail PLunny@KAneBuilders.
   Glenside, PA. 19038
   License No. OR, if new home, Builder Reg. No. _____ Exp. Date _____
   Home Improvement Contractor Registration No. or Exemption Reason _____
   Federal Emp. ID No. 800472851 FAX: (215) 517-7787
5. Architect or Engineer Brown Craig Turner Contact Pedro SAles
   Address 100 North Charles Street e-mail Pedro@bctarchitects.com
   Tel. (410) 837-2727 FAX: _____
6. Responsible Person in Charge once Work has Begun Peter Lunny-Kane Builders
   Tel. (215) 517-5511 FAX: (215) 517-7787

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	$ 8875		
2. Electrical	1655	150	
3. Plumbing	933		284
4. Fire Protection	290	175	
5. Elevator Devices			
6. Subtotal			
7. Less 20% for State Plan Review	$		
8. Subtotal	$		
9. State Permit Surcharge Fee	809	90	5
10. Subtotal	$		
11. Cert. of Occupancy	100		
12. Other Z			
13. TOTAL	$	415	

VI. BUILDING/SITE CHARACTERISTICS

		(office use only)
1. Number of Stories	1	
2. Height of Structure	ft.	150
3. Area — Largest Floor	14,299 sq. ft.	
4. New Building Area	sq. ft.	1 DCA
5. Volume of New Structure	cu. ft.	157
6. Max. Live Load		
7. Max. Occupancy Load	397	
8. If Industrialized Building: State Approved ____ HUD ____		
9. Total Land Area Disturbed	sq. ft.	
10. Flood Hazard Zone		
11. Base Flood Elevation	ft.	
12. Wetlands yes ____ no ____		

IIa. PROPOSED WORK

- ☐ Minor Work
- ☐ Repair
- ☐ Asbestos Abat. -Subch. 8
- ☐ New Building
- ☒ Alteration
- ☐ Lead Hazard Abatement
- ☐ Addition
- ☐ Renovation
- ☐ Radon Remediation
- ☐ Demolition
- ☐ Reconstruction
- ☐ Annual Permit

IIb. SUBCODES

(Check all that apply)

FOR OFFICE USE ONLY (Optional)

	Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Resubmission Dates Rejection	Re-viewer
☑ Building	225,000				08/29/16				
☑ Electrical	152,000	8/15/16			8/24/16	PF	9/28/16		PF
☑ Plumbing	22,500				9-8-16				
☑ Fire Protection	25,800		8/10/16				9/27/16		
☐ Elevator		Eng Exempt			8/19/16	ECC			
TOTAL COST	425,300.00								

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL *(primary use)*
1. State Specific Use:
2. Use Group, Proposed: Select Group M
3. Change in Use Group, Indicate Present: Select Group
4. No. of dwelling units: *Total Units* *Income-restricted*
   Gained, Sale
   Gained, Rental
   Lost, Sale
   Lost, Rental

B. NON-RESIDENTIAL *(primary use)*
1. State Specific Use: M
2. Use Group, Proposed: Select Group
3. Change in Use Group, Indicate Present:

C. MIXED USE -List secondary use/

D. Construct. Classification:

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/Dumbwaiters/Moving Walks
2. ☐ ...ure Boilers
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers/Standpipes
8. ☐ Smoke Control Systems in C...
9. ☐ Underground Storage Ta...
10. ☐ Swimming Pools, Sp...
11. ☐ LPGas Tanks

U.C.C. F100-1 (rev. 8/08)

OFFICE DATE RECEIVED: _____

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL		COMMENTS
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	
☒ Zoning Officer	JC	8/19/16							2A-16-01292
☐ Planning Board									
☐ Zoning Board									
☐ Sewer Authority									
☐ Water Authority									
☐ Police Department									
☐ Health Department									
☐ Soil Conservation									
☐ N.J. Department of Community Affairs									
☐ N.J. Department of Transportation									
☐ N.J. Department of Environmental Protection									
☐ Utility Dig No.									
☐									
☐									

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only—optional)

Name of Code & Edition		Name of Code & Edition		
Building		Energy		Other
Electrical		Barrier Free		
Plumbing		Flood Hazard		
Fire Protection		As Built Elevation Cert.		
Mechanical		Other		

X. CERTIFICATES ISSUED (office use only)

		DATE ISSUED	DATE EXPIRED	DATE REISSUED	DATE EXPIRED
☐ Temporary Certificate of Occupancy	No.				
☐ Temporary Certificate of Compliance	No.				
☐ Continued Certificate of Occupancy	No.				
☐ Certificate of Compliance	No.				
☐ Certificate of Occupancy	No.				
☐ Certificate of Approval	No.				
☐ Lead Abatement Clearance Certificate	No.				

OFFICE USE ONLY

DATE:	COMMENTS:	INITIALS:
8/19/16	SENT TO ECC	JK 20

BUTLER
BALANCING CO. INC.

AABC Certified Testing & Balancing

PROJECT	DSW
LOCATION	56 CHAMBERSBRIDGE ROAD, BRICK, NJ.
ARCHITECT	BCT ARCHITECTS, LLC.
ENGINEER	JOHNSON & URBAN, LLC.
HIRING FIRM	B&B MECHANICAL

THE TEST REPORT PROJECT NUMBER #MAR17146

THIS IS TO CERTIFY THAT THE BUTLER BALANCING COMPANY HAS TESTED & BALANCED THE SYSTEMS DESCRIBED WITHIN TO THEIR MAXIMUM BASED ON THE SYSTEM CONDITIONS MADE AVAILABLE FOR TAB. THE TESTING AND BALANCING (AS MADE AVAILABLE BY THE CONTRACT AND SCHEDULE) HAS BEEN PERFORMED IN ACCORDANCE WITH THE STANDARDS PUBLISHED BY THE ASSOCIATED AIR BALANCE COUNCIL AND THE RESULTS OF THESE TESTS ARE HEREIN RECORDED. ANY SYSTEM DEFFICIENCIES ARE NOTED WITHIN.

REPORT SUBMISSION DATE: MARCH 2017

CERTIFIED TEST & BALANCE ENGINEERS

DON BUTLER #91-07-28 | PAUL THOMAS #03-07-35

Address: PO Box 72256 Thorndale, PA 19372 Phone: 610-873-6905 Fax: 610-873-6908
www.butlerbalancing.com

BRICK TOWNSHIP BUILDING DEPARTMENT
RECEIVED
MAR 23 2017

AABC

Associated Air Balance Council

Annual Certificate

Awarded to

Donald Butler

Butler Balancing Company, Inc.

In recognition of his qualifications as a

Certified Test and Balance Engineer

under the rules, regulations, and requirements of the Associated Air Balance Council. The above named is fully authorized to perform total system balance in accordance with the standards as established by the AABC and as a member of the Associated Air Balance Council for the year

2017

This registration number 91-07-28 is fully recognized by the bylaws and charter of this professional association. Certification is renewable on an annual basis after examination of the agency's record for the preceding year. This certificate expires December 31, 2017.

ASSOCIATED AIR BALANCE COUNCIL
AABC
2017

Michael Delcamp
Michael Delcamp, *President*

Kenneth M Sufka
Kenneth M. Sufka, *Executive Director*

AABC

Associated Air Balance Council

Annual Certificate

Awarded to

Paul Thomas

Butler Balancing Company, Inc.

In recognition of his qualifications as a

Certified Test and Balance Engineer

under the rules, regulations, and requirements of the Associated Air Balance Council. The above named is fully authorized to perform total system balance in accordance with the standards as established by the AABC and as a member of the Associated Air Balance Council for the year

2017

This registration number 03-07-35 is fully recognized by the bylaws and charter of this professional association. Certification is renewable on an annual basis after examination of the agency's record for the preceding year. This certificate expires December 31, 2017.

ASSOCIATED AIR BALANCE COUNCIL
AABC
2017

Michael Delcamp
Michael Delcamp, *President*

Kenneth M Sufka
Kenneth M. Sufka, *Executive Director*

COMMON REPORT SITUATIONS

THE FOLLOWING ARE NOT NECESSARILY PART OF THIS REPORT. ITEMS MENTIONED ARE COMMON TO MANY SYSTEMS, AND IF THE COMMENTS DISCUSSED BELOW ARE IN THIS REPORT, WE WANTED TO GIVE AN EXPLANATION AS TO WHY THE COMMENT IS SHOWN.

DOME STYLE EXHAUST FANS

THE DISCHARGE STATIC PRESSURE CANNOT BE MEASURED ON SITE FOR DOME FANS AS IT IS DISCHARGING TO THE ATMOSPHERE. SINCE THERE IS NO DUCTWORK ON THE DISCHARGE SIDE, THE AIRFLOW IS TO TURBULENT WITH THE DOME STYLE COVER AND CANNOT BE ACCURATELY REPORTED. WHEN ACCESS PERMITS, WE WILL SHOW THE INLET STATIC PRESSURE

AMPERAGE READING LIMITATIONS

LATELY, MANY FAN INSTALLATIONS ARE BEING COMPLETED WITH A "TOGGLE TYPE " SWITCH FOR THE DISCONNECT. SINCE MANY TIMES WE ARE ON SITE BEFORE CIRCUIT PANELS ARE LABELED, WE ARE UNABLE TO SAFELY MEASURE THE ACTUAL AMPERAGE / VOLTAGE FOR THE FAN MOTOR BY USING A TOGGLE SWITCH. THE WIRING IS TO TIGHT AND IN MANY CASES TO SHORT FOR SAFE REMOVAL OF THE SWITCH WITHOUT BEING ABLE TO DISABLE IT AT THE PANEL FOR LACK OF LABELING. WE THEREFORE DO NOT CONSIDER IT SAFE FOR OUR MECHANICS TO PERFORM THIS FUNCTION EITHER FOR SAFETY OR LIABILITY OF DAMAGE TO THE SWITCH AND WIRING.

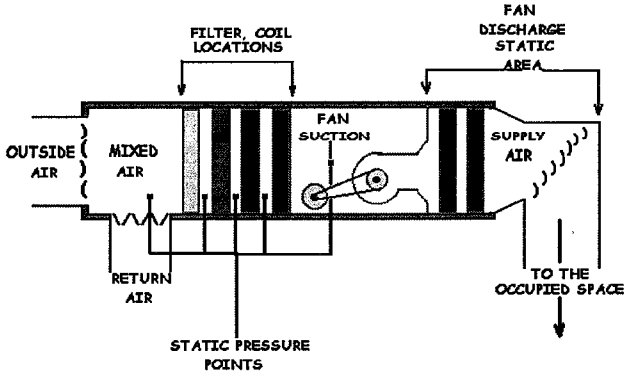
MOTOR TAGS

MOTOR DESIGN INFORMATION IS REQUIRED FOR ALL DIRECT DRIVE FANS & MOTORS, BUT IN MOST CASES THE MOTOR TAG IS COVERED BY THE MOUNTING BRACKET THAT IS USED TO HOLD THE MOTOR IN PLACE. UNTIL WE CAN CONVINCE THE MANUFACTURER TO MOUNT THE DESIGN INFORMATION IN A LEGIBLE LOCATION, WE HAVE TO SAY "NO TAG INFORMATION AVAILABLE" SINCE IT CANNOT BE VERIFIED AS THE ACTUAL MOTOR INSTALLED.

DAMPERS

THE VOLUME DAMPER IS CRITICAL TO THE FINAL BALANCE OF THE SYSTEM. FACE DAMPERS ARE NOT BALANCING DAMPERS. THEY ARE FOR A MINOR " FINE TUNE ONLY" AND THEY DO NOT ALWAYS HOLD THEIR SET POSITION. ACCESS TO VOLUME DAMPERS IS CRITICAL. IF WE CANNOT SAFELY ADDRESS A VOLUME DAMPER OR IF THERE IS A HARD CEILING WITH NO ACCESS PANEL, THEN WE HAVE TO REPORT "NO ACCESS". DUE TO LIABILITY, WE CANNOT ASK OUR MECHANICS TO WALK ACROSS DRYWALL CEILINGS OR WALK THE DUCT MAINS TO REACH DAMPERS.

UNIT PROFILE EXPLANATION



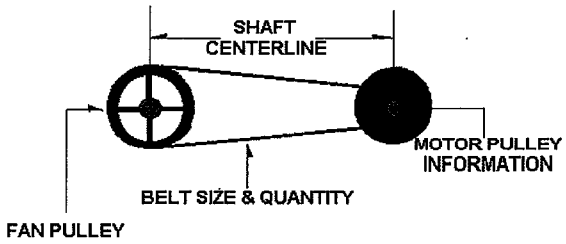
THIS DRAWING (GENERIC) WILL SHOW ACTUAL LOCATIONS OF THE FILTERS, COOLING COILS & HEATING COILS.

AT EACH LOCATION, WHERE ACCESS PERMITS, WE SHOW STATIC PRESSURE READINGS BEFORE AND AFTER EACH FILTER, COIL AND THE FAN SECTION.THESE READINGS WILL SHOW THE RESISTANCE ACROSS EACH. STATIC IS PRESSURE EXERTED IN ALL DIRECTIONS AT THE POINT OF THE READING. THE READINGS ON THE ENTERING SIDE OF THE FAN WILL BE NEGATIVE. ALL READINGS ON THE LEAVING SIDE WILL BE POSITIVE. THE SUCTION STATIC AND THE DISCHARGE STATIC OF THE FAN, WHEN ADDED TOGETHER, WILL GIVE A TOTAL STATIC FOR THE FAN ITSELF.
BY ADDING THE + DISCHARGE STATIC AND THE - RETURN INLET STATIC, YOU WILL DERIVE THE EXTERNAL STATIC OF THE SYSTEM ITSELF, ASIDE FROM THE FAN SYSTEM. STATIC READINGS THAT DO NOT MEET DESIGN USUALLY INDICATE A TYPE OF PROBLEM OR CHANGE TO THE SYSTEM. SUCH AS, A HIGH DIFFERENTIAL OF BEFORE AND AFTER FILTERS, COILS CAN INDICATE POSSIBLE BLOCKAGE, DIRT ETC. HIGH STATICS, ALONG WITH LOW AIRFLOW CAN INDICATE CLOSED DAMPERS, RESTRICTED DUCT SYSTEMS ETC.

WHEN THE SYSTEM IS UNDER PROPER OPERATING CONDITIONS, WE SHOW TEMPERATURE READINGS OF THE OUTSIDE AIR, THE RETURN AIR FROM THE SPACE, THE MIXED AIR OF THE RETURN AND OUTSIDE AIR, ALONG WITH THE SUPPLY AIR TO THE SPACE. TEMPERATURE PROFILES ARE CRITICAL TO THE SYSTEM EVALUATION. A PROPER MIXED AIR TEMPERATURE PROFILE WILL HELP EVALUATE THE % OF OUTSIDE & RETURN AIR THAT IS ENTERING THE FAN SECTION.

TEMPERATURES INDICATE THE MODE THAT THE SYSTEM WAS TESTED IN. CARE MUST BE TAKEN IN NEW BUILDINGS SUCH AS OPEN DOORS, TOTAL OPERATING TIME ETC, TO GIVE A TRUE READ OF THE SYSTEM

DRIVE PACKAGE EXPLANATION



DRIVE PACKAGE INFORMATION

THIS INFORMATION IN THE REPORT WILL TELL THE STATUS OF THE CFM AVAILABILITY, BASED ON PULLEY SIZES, RPM AND AMPERAGE READINGS.

THE FAN PULLEY IS NORMALLY FIXED WITH NO ADJUSTMENT FOR DIAMETER.
THE MOTOR PULLEY WILL EITHER BE FIXED (NO ADJUSTMENT) OR AN ADJUSTABLE PITCH. THIS IS WHERE THE RPM ADJUSTMENT WILL BE AVAILABLE. OUR SHEET WILL SHOW THE MAXIMUM POSSIBLE ADJUSTMENT OF THE PULLEY AND THE ACTUAL SETTING THAT THE PULLEY WAS LEFT AT.

THE MOTOR READINGS WILL SHOW DESIGN AMPERAGE VS. ACTUAL AMPERAGE. THIS INFORMATION, ALONG WITH THE MOTOR TAG HORSEPOWER, CAN BE USED TO CALCULATE THE APPROXIMATE BRAKE HORSEPOWER OF THE MOTOR.

FAN LAW FORMULAS CAN BE USED TO CALCULATE THE PROPER SIZE OF A NEW MOTOR SHEAVE FOR A DESIRED RPM USING, BUT NOT EXCEEDING THE AVAILABLE HORSEPOWER.

EXACT READINGS AND MEASUREMENTS ARE CRITICAL FOR SHAFT AND PULLEY DIAMETER SIZES, AS MANY DRIVE PACKAGES ARE MULTI BELT AND QUITE EXPENSIVE ALONG WITH THE LABOR INVOLVED IN A CHANGE.

OUR SHEET WILL ALSO GIVE THE ACTUAL CENTER TO CENTER OF THE FAN & MOTOR SHAFTS ALONG WITH THE ACTUAL BELT TYPE AND SIZE.

THIS SHEET, WHEN PROPERLY FILLED OUT, SHOULD BE A VALUABLE PART OF THE CUSTOMERS LONG TERM MAINTENANCE PACKAGE.

UNIT PROFILE

SYSTEM = RTU-1 LOCATION = ROOFTOP MODEL = LGH120H4MM3G

MANUFACTURER = LENNOX SERIAL= 5616L07858

	STATIC PROFILE	
	STATIC	APPARATUS
FILTER SP IN =	-0.54"	FILTERS
COIL SP IN =	-	DX COIL
COIL SP IN =	-	-
COIL SP IN =	-	-
FAN SUCTION SP =	-0.82"	-
FAN DISCHARGE IN SP =	+0.63"	GAS HEAT
COIL SP OUT =	-	-

	DESIGN	ACTUAL		DESIGN	ACTUAL
CFM ANALYSIS			**SUPPLY FAN**		
SUPPLY FAN TRAVERSE =	4000	4220	VOLTAGE =	460	477/477/478
TERMINAL =	4000	4178	AMPERAGE =	4.0	3.8/3.9/4.0
RETURN TERMINAL =	3000	3190	SERVICE FACTOR =	---	1.15
OUTSIDE AIR =	1000	1030	FRAME NUMBER =	---	56 HZ
			MOTOR MANUFACTURER =	---	INTERLINK
			PRINT DESIGN HP =	2.0	---
			MOTOR TAG HP =	---	3.0
DRIVE PACKAGE			APPROXIMATE BHP=	---	2.9
FAN PULLEY PD =	---	6.75"			
FAN SHAFT DIAMETER =	---	1.0"			
FAN RPM =	917	922			
MOTOR FULL PITCH =	---	4.75"	**BELT INFORMATION**		
FINAL MOTOR PITCH =	---	3.75" MIN.	BELT SIZE =	---	AX58
MOTOR SHAFT DIAM =	---	0.875"	BELT QTY =	---	1
MOTOR RPM =	1750	1727	CENTERLINE =	---	22.0"
			CARRIAGE ADJ. =	---	+2.0"/-2.0"
			IDLER PULLEY YES / NO	---	NO
FILTER DATA			**TEMPERATURES**	**DRY BULB**	**WET BULB**
NUMBER OF FILTERS =	---	4	OUTSIDE AIR =	48.7 F	36.4 F
SIZE =	---	20X25X2	MIXED AIR =	63.7 F	-
CONDITION OF FILTERS =	---	CLEAN	RETURN AIR =	68.5 F	-
			SUPPLY AIR =	122.3 F	-

TRAVERSE DATA SHEET

THIS PAGE WILL SHOW A CFM (CUBIC FEET PER MINUTE) MEASUREMENT AT A PRECISE POINT IN THE DUCT SYSTEM. THIS MEASUREMENT IS USED FOR DETERMINING CAPACITY FOR BRANCHES, MAINS OR THE ENTIRE SYSTEM. FROM THIS POINT A DETERMINATION CAN BE MADE FOR TOTAL AIR (CFM) AVAILABLE DOWN STREAM OF THE READING TO BE BALANCED. IT CAN ALSO BE USED FOR A COMPARISON TO DETERMINE IF DUCT LEAKAGE OR AIR LOSS IS OCCURRING.
THE MEASUREMENTS WILL BE EITHER BY PITOT TUBE INSERTIONS IN THE DUCT SYSTEM OR BY FACE VELOCITY READINGS AT FILTER BANKS, COIL FACES ETC.

THE AIR SYSTEM THAT IS ASSOCIATED WITH THIS TRAVERSE = RTU-1

THE MODE OF AIR BEING TRAVERSED = RETURN (FULL FLOW)

THE LOCATION OF THIS TRAVERSE = SALES

THE AREA OF THE BUILDING THAT THIS TRAVERSE SERVES = SALES

THE **CFM DESIGN** FOR THIS TRAVERSE POINT = 4000

THE **ACTUAL CFM** (VELOCITY X FREE AREA) AT THE TRAVERSE = 4220

THE SIZE OF THE OED AT THIS TRAVERSE POINT = 40X28

THE FREE AREA (LENGTH X WIDTH DIVIDED BY 144) = 7.8'

THE AVERAGE FPM (VELOCITY) AT THE TRAVERSE POINT = 541

THE STATIC PRESSURE AT THE TRAVERSE POINT = -0.08"

THE AIR TEMPERATURE AT THE TRAVERSE POINT = 68.5 F

INSTRUMENT USED= VELGRID

245	416	697	610
301	519	962	763
272	466	645	596

DATE: MARCH 2017 PAGE: 3

TRAVERSE DATA SHEET

THIS PAGE WILL SHOW A CFM (CUBIC FEET PER MINUTE) MEASUREMENT AT A PRECISE POINT IN THE DUCT SYSTEM. THIS MEASUREMENT IS USED FOR DETERMINING CAPACITY FOR BRANCHES, MAINS OR THE ENTIRE SYSTEM. FROM THIS POINT A DETERMINATION CAN BE MADE FOR TOTAL AIR (CFM) AVAILABLE DOWN STREAM OF THE READING TO BE BALANCED. IT CAN ALSO BE USED FOR A COMPARISON TO DETERMINE IF DUCT LEAKAGE OR AIR LOSS IS OCCURRING.
THE MEASUREMENTS WILL BE EITHER BY PITOT TUBE INSERTIONS IN THE DUCT SYSTEM OR BY FACE VELOCITY READINGS AT FILTER BANKS, COIL FACES ETC.

THE AIR SYSTEM THAT IS ASSOCIATED WITH THIS TRAVERSE = RTU-1

THE MODE OF AIR BEING TRAVERSED = RETURN (MINIMUM OUTSIDE AIR)

THE LOCATION OF THIS TRAVERSE = SALES

THE AREA OF THE BUILDING THAT THIS TRAVERSE SERVES = SALES

THE **CFM DESIGN** FOR THIS TRAVERSE POINT = 3000

THE **ACTUAL CFM** (VELOCITY X FREE AREA) AT THE TRAVERSE = 3190

THE SIZE OF THE OED AT THIS TRAVERSE POINT = 40X28

THE FREE AREA (LENGTH X WIDTH DIVIDED BY 144) = 7.8'

THE AVERAGE FPM (VELOCITY) AT THE TRAVERSE POINT = 409

THE STATIC PRESSURE AT THE TRAVERSE POINT = -0.04"

THE AIR TEMPERATURE AT THE TRAVERSE POINT = 68.5 F

INSTRUMENT USED= VELGRID

164	306	539	454
225	399	708	611
187	327	530	458

AIR TERMINAL DATA SHEET

SYSTEM: RTU-1

TERMINAL NUMBER	TERMINAL SIZE	ROOM NAME	DESIGN CFM	TEST CFM	FINAL CFM
SUPPLY					
1	31X4	SALES	1000	1003	1003
2	31X4	SALES	1000	1026	1026
3	43X4	SALES	1000	1096	1096
4	43X4	SALES	1000	1053	1053
TOTALS			4000	4178	4178
RETURN					
1	40X28	SALES	3000	3775	3190

UNIT PROFILE

SYSTEM = RTU-2 LOCATION = ROOFTOP MODEL = LGH120H4MM3G

MANUFACTURER = LENNOX SERIAL= 5616L07856

	STATIC PROFILE	
	STATIC	APPARATUS
FILTER SP IN =	-0.62"	FILTERS
COIL SP IN =	-	DX COIL
COIL SP IN =	-	-
COIL SP IN =	-	-
FAN SUCTION SP =	-0.82"	-
FAN DISCHARGE IN SP =	+0.80"	GAS HEAT
COIL SP OUT =	-	-

	DESIGN	ACTUAL		DESIGN	ACTUAL
CFM ANALYSIS			**SUPPLY FAN**		
SUPPLY FAN TRAVERSE =	4000	4298	VOLTAGE =	460	477/477/478
TERMINAL =	4000	4272	AMPERAGE =	4.0	3.8/3.9/3.9
RETURN TERMINAL =	3000	3252	SERVICE FACTOR =	---------	1.15
OUTSIDE AIR =	1000	1045	FRAME NUMBER =	---------	56 HZ
			MOTOR MANUFACTURER =	---------	INTERLINK
			PRINT DESIGN HP =	2.0	----------
			MOTOR TAG HP =	---------	3.0
DRIVE PACKAGE			APPROXIMATE BHP=	---------	2.9
FAN PULLEY PD =	---------	6.75"			
FAN SHAFT DIAMETER =	---------	1.0"			
FAN RPM =	917	926			
MOTOR FULL PITCH =	---------	4.75"	**BELT INFORMATION**		
FINAL MOTOR PITCH =	---------	3.75" MIN.	BELT SIZE =	---------	AX58
MOTOR SHAFT DIAM =	---------	0.875"	BELT QTY =	---------	1
MOTOR RPM =	1750	1727	CENTERLINE =	---------	22.0"
			CARRIAGE ADJ. =	---------	+2.0"/-2.0"
			IDLER PULLEY YES / NO	---------	NO
FILTER DATA			**TEMPERATURES**	**DRY BULB**	**WET BULB**
NUMBER OF FILTERS =	---------	4	OUTSIDE AIR =	48.7 F	36.4 F
SIZE =	---------	20X25X2	MIXED AIR =	63.6 F	-
CONDITION OF FILTERS =	---------	CLEAN	RETURN AIR =	68.3 F	-
			SUPPLY AIR =	124.2 F	-

DATE: MARCH 2017 PAGE: 6

TRAVERSE DATA SHEET

THIS PAGE WILL SHOW A CFM (CUBIC FEET PER MINUTE) MEASUREMENT AT A PRECISE POINT IN THE DUCT SYSTEM. THIS MEASUREMENT IS USED FOR DETERMINING CAPACITY FOR BRANCHES, MAINS OR THE ENTIRE SYSTEM. FROM THIS POINT A DETERMINATION CAN BE MADE FOR TOTAL AIR (CFM) AVAILABLE DOWN STREAM OF THE READING TO BE BALANCED. IT CAN ALSO BE USED FOR A COMPARISON TO DETERMINE IF DUCT LEAKAGE OR AIR LOSS IS OCCURRING.
THE MEASUREMENTS WILL BE EITHER BY PITOT TUBE INSERTIONS IN THE DUCT SYSTEM OR BY FACE VELOCITY READINGS AT FILTER BANKS, COIL FACES ETC.

THE AIR SYSTEM THAT IS ASSOCIATED WITH THIS TRAVERSE = RTU-2

THE MODE OF AIR BEING TRAVERSED = RETURN (FULL FLOW)

THE LOCATION OF THIS TRAVERSE = SALES

THE AREA OF THE BUILDING THAT THIS TRAVERSE SERVES = SALES

THE **CFM DESIGN** FOR THIS TRAVERSE POINT = 4000

THE **ACTUAL CFM** (VELOCITY X FREE AREA) AT THE TRAVERSE = 4298

THE SIZE OF THE OED AT THIS TRAVERSE POINT = 40X28

THE FREE AREA (LENGTH X WIDTH DIVIDED BY 144) = 7.8'

THE AVERAGE FPM (VELOCITY) AT THE TRAVERSE POINT = 551

THE STATIC PRESSURE AT THE TRAVERSE POINT = -0.06"

THE AIR TEMPERATURE AT THE TRAVERSE POINT = 68.3 F

INSTRUMENT USED= VELGRID

623	726	427	221
817	954	537	302
612	725	412	250

DATE: MARCH 2017 PAGE: 7

TRAVERSE DATA SHEET

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THE MEASUREMENTS WILL BE EITHER BY PITOT TUBE INSERTIONS IN THE DUCT SYSTEM OR BY FACE VELOCITY READINGS AT FILTER BANKS, COIL FACES ETC.

THE AIR SYSTEM THAT IS ASSOCIATED WITH THIS TRAVERSE = RTU-2

THE MODE OF AIR BEING TRAVERSED = RETURN (MINIMUM OUTSIDE AIR)

THE LOCATION OF THIS TRAVERSE = SALES

THE AREA OF THE BUILDING THAT THIS TRAVERSE SERVES = SALES

THE **CFM DESIGN** FOR THIS TRAVERSE POINT = 3000

THE **ACTUAL CFM** (VELOCITY X FREE AREA) AT THE TRAVERSE = 3253

THE SIZE OF THE OED AT THIS TRAVERSE POINT = 40X28

THE FREE AREA (LENGTH X WIDTH DIVIDED BY 144) = 7.8'

THE AVERAGE FPM (VELOCITY) AT THE TRAVERSE POINT = 417

THE STATIC PRESSURE AT THE TRAVERSE POINT = -0.06"

THE AIR TEMPERATURE AT THE TRAVERSE POINT = 68.3 F

INSTRUMENT USED= VELGRID

470	537	321	189
589	742	400	228
459	497	363	209

AIR TERMINAL DATA SHEET

SYSTEM: RTU-2

TERMINAL NUMBER	TERMINAL SIZE	ROOM NAME	DESIGN CFM	TEST CFM	FINAL CFM
SUPPLY					
1	31X4	SALES	1000	1044	1044
2	31X4	SALES	1000	1054	1054
3	43X4	SALES	1000	1092	1092
4	43X4	SALES	1000	1082	1082
TOTALS			4000	4272	4272
RETURN					
1	40X28	SALES	3000	3611	3253

UNIT PROFILE

SYSTEM = RTU-3 LOCATION = ROOFTOP MODEL = LGH120H4MM3G

MANUFACTURER = LENNOX SERIAL= 5616L07857

	STATIC PROFILE	
	STATIC	APPARATUS
FILTER SP IN =	-0.57"	FILTERS
COIL SP IN =	-	DX COIL
COIL SP IN =	-	-
COIL SP IN =	-	-
FAN SUCTION SP =	-0.81"	-
FAN DISCHARGE IN SP =	+0.73"	GAS HEAT
COIL SP OUT =	-	-

	DESIGN	ACTUAL		DESIGN	ACTUAL
CFM ANALYSIS			**SUPPLY FAN**		
SUPPLY FAN TRAVERSE =	4000	4181	VOLTAGE =	460	477/478/478
TERMINAL =	4000	4165	AMPERAGE =	4.0	3.8/3.8/3.9
RETURN TERMINAL =	3000	3143	SERVICE FACTOR =	---	1.15
OUTSIDE AIR =	1000	1038	FRAME NUMBER =	---	56 HZ
			MOTOR MANUFACTURER =	---	INTERLINK
			PRINT DESIGN HP =	2.0	---
			MOTOR TAG HP =	---	3.0
DRIVE PACKAGE			APPROXIMATE BHP=	---	2.8
FAN PULLEY PD =	---	6.75"			
FAN SHAFT DIAMETER =	---	1.0"			
FAN RPM =	917	925			
MOTOR FULL PITCH =	---	4.75"	**BELT INFORMATION**		
FINAL MOTOR PITCH =	---	3.75" MIN.	BELT SIZE =	---	AX58
MOTOR SHAFT DIAM =	---	0.875"	BELT QTY =	---	1
MOTOR RPM =	1750	1723	CENTERLINE =	---	22.0"
			CARRIAGE ADJ. =	---	+2.0"/-2.0"
			IDLER PULLEY YES / NO	---	NO
FILTER DATA			**TEMPERATURES**	**DRY BULB**	**WET BULB**
NUMBER OF FILTERS =	---	4	OUTSIDE AIR =	54.3 F	45.2 F
SIZE =	---	20X25X2	MIXED AIR =	66.6 F	-
CONDITION OF FILTERS =	---	CLEAN	RETURN AIR =	69.7 F	-
			SUPPLY AIR =	127.6 F	-

DATE: MARCH 2017 PAGE: 10

TRAVERSE DATA SHEET

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THE MEASUREMENTS WILL BE EITHER BY PITOT TUBE INSERTIONS IN THE DUCT SYSTEM OR BY FACE VELOCITY READINGS AT FILTER BANKS, COIL FACES ETC.

THE AIR SYSTEM THAT IS ASSOCIATED WITH THIS TRAVERSE = RTU-3

THE MODE OF AIR BEING TRAVERSED = RETURN (FULL FLOW)

THE LOCATION OF THIS TRAVERSE = SALES

THE AREA OF THE BUILDING THAT THIS TRAVERSE SERVES = SALES

THE **CFM DESIGN** FOR THIS TRAVERSE POINT = 4000

THE **ACTUAL CFM** (VELOCITY X FREE AREA) AT THE TRAVERSE = 4181

THE SIZE OF THE OED AT THIS TRAVERSE POINT = 40X28

THE FREE AREA (LENGTH X WIDTH DIVIDED BY 144) = 7.8'

THE AVERAGE FPM (VELOCITY) AT THE TRAVERSE POINT = 536

THE STATIC PRESSURE AT THE TRAVERSE POINT = -0.07"

THE AIR TEMPERATURE AT THE TRAVERSE POINT = 69.7 F

INSTRUMENT USED= VELGRID

617	699	388	260
774	932	526	294
584	672	418	272

DATE: MARCH 2017 PAGE: 11

TRAVERSE DATA SHEET

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THE MEASUREMENTS WILL BE EITHER BY PITOT TUBE INSERTIONS IN THE DUCT SYSTEM OR BY FACE VELOCITY READINGS AT FILTER BANKS, COIL FACES ETC.

THE AIR SYSTEM THAT IS ASSOCIATED WITH THIS TRAVERSE = RTU-3

THE MODE OF AIR BEING TRAVERSED = RETURN (MINIMUM OUTSIDE AIR)

THE LOCATION OF THIS TRAVERSE = SALES

THE AREA OF THE BUILDING THAT THIS TRAVERSE SERVES = SALES

THE **CFM DESIGN** FOR THIS TRAVERSE POINT = 3000

THE **ACTUAL CFM** (VELOCITY X FREE AREA) AT THE TRAVERSE = 3143

THE SIZE OF THE OED AT THIS TRAVERSE POINT = 40X28

THE FREE AREA (LENGTH X WIDTH DIVIDED BY 144) = 7.8'

THE AVERAGE FPM (VELOCITY) AT THE TRAVERSE POINT = 403

THE STATIC PRESSURE AT THE TRAVERSE POINT = -0.04"

THE AIR TEMPERATURE AT THE TRAVERSE POINT = 69.7 F

INSTRUMENT USED= VELGRID

216	324	496	442
207	395	707'	582
190	328	494	457

AIR TERMINAL DATA SHEET

SYSTEM: RTU-3

TERMINAL NUMBER	TERMINAL SIZE	ROOM NAME	DESIGN CFM	TEST CFM	FINAL CFM
SUPPLY					
1	31X4	SALES	1000	996	996
2	31X4	SALES	1000	1013	1013
3	43X4	SALES	1000	1084	1084
4	43X4	SALES	1000	1072	1072
TOTALS			4000	4165	4165
RETURN					
1	40X28	SALES	3000	3362	3143

UNIT PROFILE

SYSTEM = RTU-4 LOCATION = ROOFTOP MODEL = LGH120H4MM3G

MANUFACTURER = LENNOX SERIAL= 5616L07859

	STATIC PROFILE	
	STATIC	APPARATUS
FILTER SP IN =	-0.48"	FILTERS
COIL SP IN =	-	DX COIL
COIL SP IN =	-	-
COIL SP IN =	-	-
FAN SUCTION SP =	-0.75"	-
FAN DISCHARGE IN SP =	+0.85"	GAS HEAT
COIL SP OUT =	-	-

	DESIGN	ACTUAL		DESIGN	ACTUAL
CFM ANALYSIS			**SUPPLY FAN**		
SUPPLY FAN TRAVERSE =	4000	4259	VOLTAGE =	460	477/478/479
TERMINAL =	4000	4224	AMPERAGE =	4.0	3.8/3.8/3.7
RETURN TERMINAL =	3000	3214	SERVICE FACTOR =	---------	1.15
OUTSIDE AIR =	1000	1045	FRAME NUMBER =	---------	56 HZ
			MOTOR MANUFACTURER =	---------	INTERLINK
			PRINT DESIGN HP =	2.0	----------
			MOTOR TAG HP =	---------	3.0
DRIVE PACKAGE			APPROXIMATE BHP=	---------	2.8
FAN PULLEY PD =	---------	6.75"			
FAN SHAFT DIAMETER =	---------	1.0"			
FAN RPM =	917	927			
MOTOR FULL PITCH =	---------	4.75"	**BELT INFORMATION**		
FINAL MOTOR PITCH =	---------	3.75" MIN.	BELT SIZE =	---------	AX58
MOTOR SHAFT DIAM =	---------	0.875"	BELT QTY =	---------	1
MOTOR RPM =	1750	1710	CENTERLINE =	---------	22.0"
			CARRIAGE ADJ. =	---------	+2.0"/-2.0"
			IDLER PULLEY YES / NO	---------	NO
FILTER DATA			**TEMPERATURES**	**DRY BULB**	**WET BULB**
NUMBER OF FILTERS =	---------	4	OUTSIDE AIR =	54.3 F	45.2 F
SIZE =	---------	20X25X2	MIXED AIR =	65.6 F	-
CONDITION OF FILTERS =	---------	CLEAN	RETURN AIR =	69.3 F	-
			SUPPLY AIR =	124.3 F	-

DATE: MARCH 2017 PAGE: 14

TRAVERSE DATA SHEET

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THE MEASUREMENTS WILL BE EITHER BY PITOT TUBE INSERTIONS IN THE DUCT SYSTEM OR BY FACE VELOCITY READINGS AT FILTER BANKS, COIL FACES ETC.

THE AIR SYSTEM THAT IS ASSOCIATED WITH THIS TRAVERSE = RTU-4

THE MODE OF AIR BEING TRAVERSED = RETURN (FULL FLOW)

THE LOCATION OF THIS TRAVERSE = SALES

THE AREA OF THE BUILDING THAT THIS TRAVERSE SERVES = SALES

THE **CFM DESIGN** FOR THIS TRAVERSE POINT = 4000

THE **ACTUAL CFM** (VELOCITY X FREE AREA) AT THE TRAVERSE = 4259

THE SIZE OF THE OED AT THIS TRAVERSE POINT = 40X28

THE FREE AREA (LENGTH X WIDTH DIVIDED BY 144) = 7.8'

THE AVERAGE FPM (VELOCITY) AT THE TRAVERSE POINT = 546

THE STATIC PRESSURE AT THE TRAVERSE POINT = -0.07"

THE AIR TEMPERATURE AT THE TRAVERSE POINT = 69.3 F

INSTRUMENT USED= VELGRID

618	669	444	268
787	957	534	280
598	671	534	282

DATE: MARCH 2017 PAGE: 15

TRAVERSE DATA SHEET

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THE MEASUREMENTS WILL BE EITHER BY PITOT TUBE INSERTIONS IN THE DUCT SYSTEM OR BY FACE VELOCITY READINGS AT FILTER BANKS, COIL FACES ETC.

THE AIR SYSTEM THAT IS ASSOCIATED WITH THIS TRAVERSE = RTU-4

THE MODE OF AIR BEING TRAVERSED = RETURN (MINIMUM OUTSIDE AIR)

THE LOCATION OF THIS TRAVERSE = SALES

THE AREA OF THE BUILDING THAT THIS TRAVERSE SERVES = SALES

THE **CFM DESIGN** FOR THIS TRAVERSE POINT = 3000

THE **ACTUAL CFM** (VELOCITY X FREE AREA) AT THE TRAVERSE = 3214

THE SIZE OF THE OED AT THIS TRAVERSE POINT = 40X28

THE FREE AREA (LENGTH X WIDTH DIVIDED BY 144) = 7.8'

THE AVERAGE FPM (VELOCITY) AT THE TRAVERSE POINT = 412

THE STATIC PRESSURE AT THE TRAVERSE POINT = -0.03"

THE AIR TEMPERATURE AT THE TRAVERSE POINT = 69.3 F

INSTRUMENT USED=

449	534	321	200
595	724	401	229
474	509	298	206

AIR TERMINAL DATA SHEET

SYSTEM: RTU-4

TERMINAL NUMBER	TERMINAL SIZE	ROOM NAME	DESIGN CFM	TEST CFM	FINAL CFM
SUPPLY					
1	31X4	SALES	1000	1028	1028
2	31X4	SALES	1000	1041	1041
3	43X4	SALES	1000	1093	1093
4	43X4	SALES	1000	1062	1062
TOTALS			4000	4224	4224
RETURN					
1	40X28	SALES	3000	3838	3214

UNIT PROFILE

SYSTEM = RTU-5 LOCATION = ROOFTOP MODEL = LGH060H4ES4G

MANUFACTURER = LENNOX SERIAL= 5616L07450

	STATIC PROFILE	
	STATIC	APPARATUS
FILTER SP IN =	-0.15"	FILTERS
COIL SP IN =	-	DX COIL
COIL SP IN =	-	-
COIL SP IN =	-	-
FAN SUCTION SP =	-0.28"	-
FAN DISCHARGE IN SP =	+0.33"	GAS HEAT
COIL SP OUT =	-	-

	DESIGN	ACTUAL		DESIGN	ACTUAL
CFM ANALYSIS			**SUPPLY FAN**		
SUPPLY FAN TRAVERSE =	2000	N/A DUCT CONFIGURATION	VOLTAGE =	120/240	244
TERMINAL =	2000	1949	AMPERAGE =	3.7	2.9
RETURN TERMINAL =	1750	1658	SERVICE FACTOR =	---------	NONE LISTED
OUTSIDE AIR =	250	266	FRAME NUMBER =	---------	NONE LISTED
			MOTOR MANUFACTURER =	---------	NONE LISTED
			PRINT DESIGN HP =	0.5	----------
			MOTOR TAG HP =	---------	1.0
DRIVE PACKAGE			APPROXIMATE BHP=	---------	0.78
FAN RPM =	920	-			
MOTOR RPM =	NONE	-			
DIRECT DRIVE FINAL SPEED=	---------	HIGH SPEED			
FILTER DATA			**TEMPERATURES**	**DRY BULB**	**WET BULB**
NUMBER OF FILTERS =	---------	4	OUTSIDE AIR =	49.3 F	36.7 F
SIZE =	---------	20X20X2	MIXED AIR =	65.0 F	-
CONDITION OF FILTERS =	---------	CLEAN	RETURN AIR =	67.4 F	-
			SUPPLY AIR =	122.9 F	-

DATE: MARCH 2017 PAGE: 18

TRAVERSE DATA SHEET

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THE MEASUREMENTS WILL BE EITHER BY PITOT TUBE INSERTIONS IN THE DUCT SYSTEM OR BY FACE VELOCITY READINGS AT FILTER BANKS, COIL FACES ETC.

THE AIR SYSTEM THAT IS ASSOCIATED WITH THIS TRAVERSE = RTU-5

THE MODE OF AIR BEING TRAVERSED = OUTSIDE AIR

THE LOCATION OF THIS TRAVERSE = ROOF

THE AREA OF THE BUILDING THAT THIS TRAVERSE SERVES = BATHROOM / BREAK ROOM / WAREHOUSE

THE **CFM DESIGN** FOR THIS TRAVERSE POINT = 250

THE **ACTUAL CFM** (VELOCITY X FREE AREA) AT THE TRAVERSE = 266

THE SIZE OF THE INTAKE AT THIS TRAVERSE POINT = 31X13

THE FREE AREA (LENGTH X WIDTH DIVIDED BY 144) = 2.8'

THE AVERAGE FPM (VELOCITY) AT THE TRAVERSE POINT = 95

THE STATIC PRESSURE AT THE TRAVERSE POINT = -0.02"

THE AIR TEMPERATURE AT THE TRAVERSE POINT = 49.3 F

INSTRUMENT USED= VELGRID

82	106	96

AIR TERMINAL DATA SHEET

SYSTEM: RTU-5

TERMINAL NUMBER	TERMINAL SIZE	ROOM NAME	DESIGN AK	DESIGN FPM	DESIGN CFM	TEST CFM	FINAL CFM	FPM
SUPPLY								
1	12X8	STOCK ROOM			210	306	217	
2	12X8	STOCK ROOM			210	292	197	
3	12X8	STOCK ROOM			210	279	194	
4	12X8	STOCK ROOM			210	281	208	
5	2410	OFFICE			300	0	283	
6	12X8	STOCK ROOM			210	267	216	
7	1206	WOMEN			50	57	53	
8	1206	MEN			50	63	48	
9	2408	CORRIDOR			100	169	107	
10	2408	BREAK ROOM			225	138	211	
11	2408	BREAK ROOM			225	108	215	
TOTALS					2000	1960	1949	
RETURN								
1	30X11	STOCK ROOM	2.3	761	1750	1803	1658	721

AIR TERMINAL DATA SHEET

SYSTEM: DIRECT DRIVE EXHAUST FAN

TERMINAL NUMBER	TERMINAL SIZE	ROOM NAME	DESIGN CFM	TEST CFM	FINAL CFM
EF-1	12X11	MEN	75	81	81
EF-2	12X11	WOMEN	75	80	80

Tenant fit-ups / Commercial Renovations

Certificate requirements

print
reset defaults
check all
complete

Tenant fit-ups / Commercial Renovations

Prior Approvals

Approval from the BTMUA (732) 458-7000 **emailed Peg on 3/14/17 MFF ok got CC from MUA**	**comment**	☑	☐
Approval from the Division of Engineering (If Applicable) **passed 3/15/17 rec'd in bldg. 3/15/17 MFF**	**comment**	☑	☐
Final Ocean County Soil Conservation 714 Lacey Rd. Forked River (609) 971-7002 (If Applicable)	comment	☐	☑
Affordable Housing Approval (If Applicable)	comment	☐	☑
Signed Certificate of Occupancy Application	comment	☑	☐

UCC Requirements

Final Building Inspection	comment	☑	☐
Final Electrical Inspection	comment	☑	☐
Final Plumbing Inspection	comment	☑	☐
Final Fire Inspection	comment	☑	☐
Final Elevator Inspection (If Applicable)	comment	☐	☑
All Updates Have Been Approved	comment	☑	☐

This checklist has been given to: (edit)

THE BRICK TOWNSHIP
MUNICIPAL UTILITIES AUTHORITY
1551 HIGHWAY 88 WEST
BRICK, NEW JERSEY 08724
(732) 458-7000

CERTIFICATE OF COMPLIANCE

Date 3/15/17

NAME Federal Realty Investment ~~T~~Trust

ADDRESS PO Box 182601 Columbus OH 43218-2601

PROPERTY LOCATION 56 Chambers Bridge Rd.

Account No 3592814-27 Block 671 Lot 1.01

I herby certify that the above applicant has complied with all Rules and Regulations of this Authority and has paid all required fees and charges.

For the Authority Peggy Mullen

DSW

BUILDING SUBCODE
TECHNICAL SECTION

Date Received 9/29/16
Control #

Date Issued
Permit # 16-3415

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 671 Lot 1.01 Qualification Code

Work Site Location Chambers Bridge Road & Route 70 (space 29)
Brick, NJ 08723

Owner in Fee: Federal Realty Invwestment Trust

Tel. (240) 478-9791 e-mail JFMiller@federalrealty.com

Address 50 E Wynnewood Road, Wynnewood, PA. 19096
street municipality zip code

Contractor: Kane Builders S&D, Inc. Tel. (215) 517-5511

Address 145 Willow Grove Avenue e-mail PLunny@KaneBuilders.com
Glenside, PA. 19038

Contractor License No. or Builder Registration No. Exp. Date

Home Improvement Contractor Registration No. or Exemption Reason

Federal Emp. ID No. 800472851 FAX: (215) 517-7787

JOB SUMMARY (Office Use Only)

PLAN REVIEW

	Date	Initial
[ ] No Plans Required		
[✓] All	08/29/16	KAK
[ ] Footings/Foundations		
[ ] Structural/Framework		
[ ] Exterior		
[ ] Interior		

Joint Plan Review Required:
[ ] Elec. [ ] Plumb. [ ] Fire [ ] Elevator

SUBCODE APPROVAL for PERMIT
Date: 08/29/16
Approved by: KAK

SUBCODE APPROVAL for CERTIFICATE
[✓] CO [ ] CCO [ ] CA
Date: 02/02/15
Approved by: KAK

INSPECTIONS

Type:	Failure	Failure	Approval	Initial
Footing				
Footing Bonding				
Foundation				
Slab				
Frame			12-21-16	SK
Truss Sys./Bracing				
Barrier-Free				
Insulation				
Finishes -Base Layer				
Finishes -Final				
Energy				
Mechanical				
TCO				
Other				
Final	*1-30-17	SK	2-1-17	SK
Barrier-Free				

B. BUILDING CHARACTERISTICS

Use Group Present M Proposed M

No. of Stories 1

Height of Structure ft.

Area — Largest Floor 14,299 sq. ft.

New Bldg. Area/All Floors sq. ft.

Volume of New Structure cu. ft.

Max. Live Load

Max. Occupancy Load

Constr. Class Present Proposed

If Industrialized Building:
State Approved HUD

Est. Cost of Bldg. Work:

1. New Bldg. $
2. Rehabilitation $ 225,000 ~~00~~
3. Total (1+ 2) $ 225,000.00

U.C.C. F110 (rev. 11/09)
Internet version

*1-30-17 NR SK

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Sign here: Peter Lunny

Print name here: Peter Lunny

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

Interior fit out of a new DSW store complete. Includes plumbing, HVAC, Electrical storefronts, painting, flooring, drywall, ceilings, sprinkler.

TYPE OF WORK:

- [ ] New Building
- [ ] Addition
- [ ] Rehabilitation
- [ ] Roofing
- [ ] Siding
- [ ] Fence _____ Height (exceeds 6')
- [ ] Sign _____ Sq. Ft.
- [ ] Pool
- [ ] Retaining Wall _____ Sq. Ft.
- [ ] Asbestos Abatement Subchapter 8
- [ ] Lead Haz. Abatement NJAC 5:17
- [ ] Radon Remediation
- [X] Other Int. Demo
- [ ] Demolition

FEE (Office Use Only)

$

Administrative Surcharge $
Minimum Fee $
State Permit Surcharge Fee $
TOTAL FEE $

Applicant: When submitting this form to your Local Construction Code Enforcement Office, please provide one original plus three photocopies.

BUILDING SUBCODE
TECHNICAL SECTION

Date Received / Control # 12/12/16

Date Issued / Permit # 16-3415 +C

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 6011 Lot 1.01 Qualification Code

Work Site Location Brick Plaza, Space #29 56 Chambers Bridge Rd
Chambers Bridge Road & Route 70

Owner in Fee: DSw

Tel: (614) 872-1767 e-mail renacarver@dswinc.com

Address 810 DSW Drive Columbus, OH 43219
street municipality zip code

Contractor: A. F. Alber General Contractor, Inc. Tel. (215) 249-4885

Address PO Box 125 Hilltown, PA 18927 e-mail john@afalber.com
114 Elephant Rd Dublin, PA 18917

Contractor License No. or Builder Registration No. Exp. Date

Home Improvement Contractor Registration No. or Exemption Reason

Federal Emp. ID No. 23-260815 FAX: (215) 249-1353

JOB SUMMARY (Office Use Only)

PLAN REVIEW — Date — Initial

- [ ] No Plans Required
- [✓] All — 11/05/16 — KEK
- [ ] Footings/Foundations
- [ ] Structural/Framework
- [ ] Exterior
- [ ] Interior

Joint Plan Review Required:
[ ] Elec. [ ] Plumb. [ ] Fire [ ] Elevator

SUBCODE APPROVAL for PERMIT
Date: 11/05/16
Approved by: KEK

SUBCODE APPROVAL for CERTIFICATE
[✓] CO [ ] CCO [ ] CA
Date: 03/23/17
Approved by: KEK

INSPECTIONS — Dates (Month/Day)

Type:	Failure	Failure	Approval	Initial
Footing				
Footing Bonding				
Foundation				
Slab				
Frame				
Truss Sys./Bracing				
Barrier-Free				
Insulation				
Finishes -Base Layer				
Finishes -Final				
Energy				
Mechanical				
TCO				
Other				
Final	*3-1-17		3-21-17	
Barrier-Free	3-8-17			

B. BUILDING CHARACTERISTICS

Use Group Present ____ Proposed M
No. of Stories ____ Proposed 1
Height of Structure ____ ft.
Area — Largest Floor ____ sq. ft.
New Bldg. Area/All Floors ____ sq. ft.
Volume of New Structure ____ cu. ft.
Max. Live Load ____
Max. Occupancy Load ____ 411

Constr. Class Present ____ Proposed 11B

If Industrialized Building:
State Approved ____ HUD ____

Est. Cost of Bldg. Work:
1. New Bldg. $ ____
2. Rehabilitation $ 117,606
3. Total (1+ 2) $ 117,606

U.C.C. F110 (rev. 11/09) Internet version

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Sign here: [signature]

Print name here: Anthony Alber

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK
Installation of finishes, sales fixtures, energy management system, electric power circuiting, and low voltage circuits

TYPE OF WORK:
- [ ] New Building
- [ ] Addition
- [X] Rehabilitation
- [ ] Roofing
- [ ] Siding
- [ ] Fence ____ Height (exceeds 6')
- [ ] Sign ____ Sq. Ft.
- [ ] Pool
- [ ] Retaining Wall ____ Sq. Ft.
- [ ] Asbestos Abatement Subchapter 8
- [ ] Lead Haz. Abatement NJAC 5:17
- [ ] Radon Remediation
- [ ] Other ____
- [ ] Demolition

FEE (Office Use Only)
$ ____

Administrative Surcharge $ ____
Minimum Fee $ ____
State Permit Surcharge Fee $ ____
TOTAL FEE $ ____

Applicant: When submitting this form to your Local Construction Code Enforcement Office, please provide one original plus three photocopies.

* 3-8-17
* 3-1-17 Need flame spread certs for carpet - SR AND Balance Report

JT ENGINEERING

ENGINEERING LETTER

January 3, 2017

Pete Lunny
Kane Builders
145 Willow Grove Avenue
Glenside, PA 19038

Re: Brick Plaza - Facade Renovation
56 Chambers Bridge Road
Brick, NJ 08723
Project #: 1661_01

Dear Mr. Lunny,

Pursuant to your request, we have performed a structural review of the as-built framing at the above referenced project. Our review was performed in conjunction with construction documents issued by our office dated June 14, 2016. Conditions reviewed and any required repairs are listed below.

AS-BUILT CONDITIONS AND CONCLUSIONS:

Condition #1:
It is our understanding the front wall above the glass storefront was constructed in a different manner then what was indicated on the original construction documents. Details 3 & 4 on S2.1 of the structural drawings indicated for steel angles to be installed at the front wall of the building between the existing w-flange beam and new glass storefront. In lieu of the steel angles, gauge metal studs where installed on the inside face of the existing masonry front wall at 16" O.C. The gauge metal studs were fastened to the existing masonry and existing w-flange beams with gauge metal clip angles (with a minimum of 2 clip angles on each stud). Gauge metal studs were also installed at the exterior between the w-flange beams and glass storefront at 16" O.C. Finally, 3/4" plywood was screwed to the bottom of both the interior and exterior studs. Please reference the attached FS-2 sketch for the as-built front wall framing.

Response:
The as-built front wall framing as indicated above and in the attached sketch are acceptable. No repairs or reinforcement are required at this time.

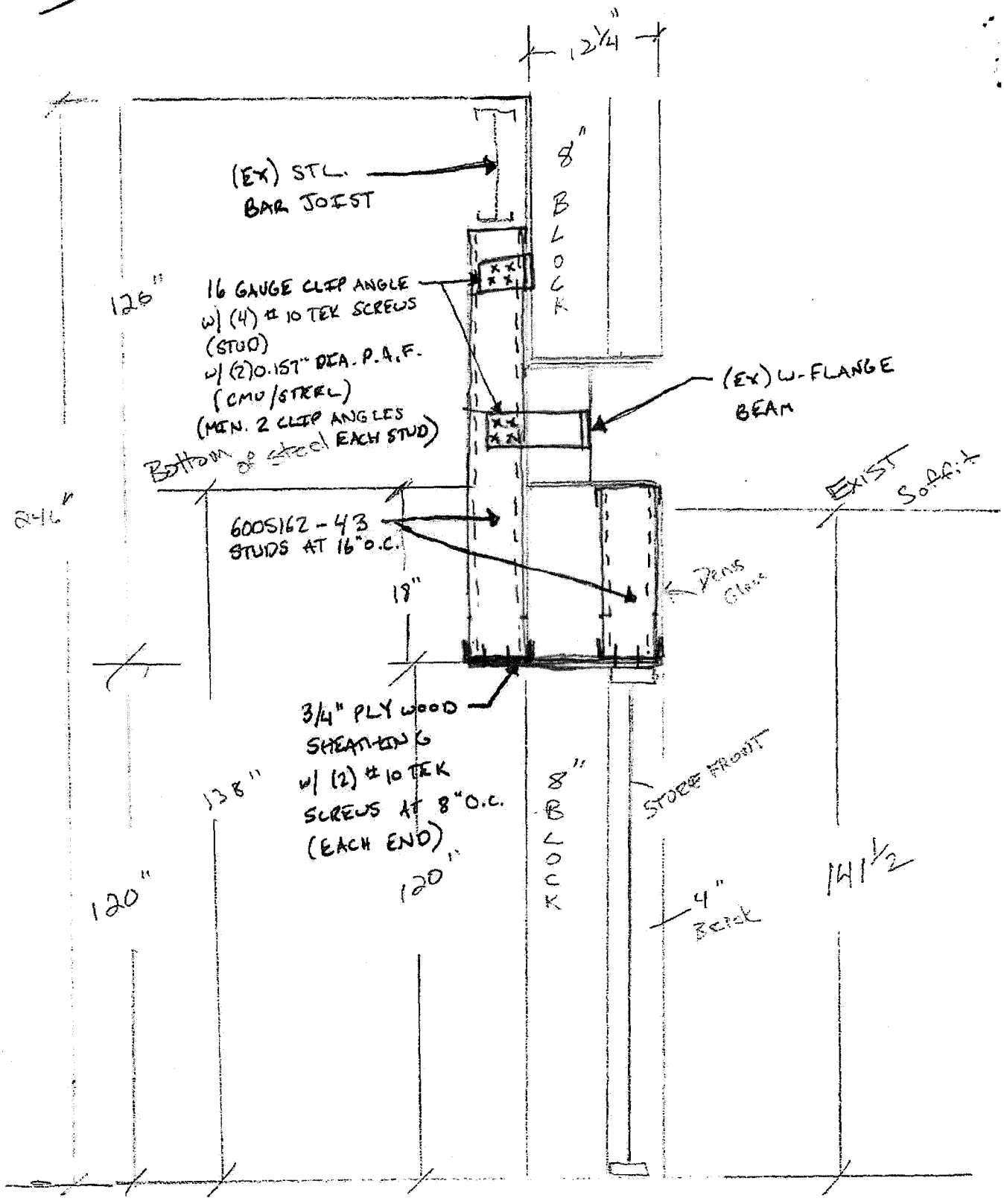
If you have any questions or need clarification, please do not hesitate to contact our office.

Sincerely,

Jason Tarantino, PE
Principal

App'd
01/09/17
VCK.

209 Lawrence Road, Lawrence Township, New Jersey 08648
T: 609-303-0236 • F: 609-303-0237 • www.jt-pe.com


12¼"
(EX) STL. BAR JOIST
8" BLOCK
126"
16 GAUGE CLIP ANGLE w/ (4) #10 TEK SCREWS (STUD) w/ (2) 0.157" DIA. P.A.F. (CMU/STEEL) (MIN. 2 CLIP ANGLES EACH STUD)
(EX) W-FLANGE BEAM
Bottom of steel
EXIST SOFFIT
241"
600S162-43 STUDS AT 16" O.C.
18"
Pens Glass
3/4" PLYWOOD SHEATHING w/ (2) #10 TEK SCREWS AT 8" O.C. (EACH END)
138"
8" BLOCK
STORE FRONT
120"
120"
4" Brick
141½

FS-2

1/3/17

16-3415

671-101

shaw contract group®

captivate tile
collection: no rules

tile specifications

style name	captivate tile ← CPT-1	
style number	59554	
construction	multi-level pattern loop	
fiber	100% eco*solution q solution dyed nylon	
dye method	100% solution dyed	
	english	**metric**
pattern repeat	none	
tufted weight	19.0	644.21 g/m²
gauge	1/12	47.24 per 10cm
stitches per inch	9.0	35.43 per 10cm
finished pile thickness	0.093	2.36 mm
total thickness	0.236	5.99 mm
average density	7355	272.72 kg/m³
product size	24" x 24"	61 cm x 61 cm
primary backing	synthetic	
secondary backing	ecoworx® tile	
protective treatments	ssp® shaw soil protection	

testing

radiant panel	class I
nbs smoke	less than 450
electrostatic propensity	less than 3.5 kv

warranties

lifetime commercial limited

installation method

coordinating products

blox tile, color play tile, diffuse tile, disperse tile, free for all, intrigue tile, kinetic tile, nothing to it tile, on a roll, shadow play tile, simply done tile, surefit, think big

environmental certification

green label plus certification number glp9968

nsf140 platinum

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DSW 2014 JOBSITE BINDER - NEW/ RELOCATION

shaw contract group®

tru colours tile

tile specifications

style name	tru colours tile	
style number	59368	← CPT-2
construction	level loop	
fiber	eco solution q® nylon	
dye method	100% solution dyed	
	english	**metric**
pattern repeat	none	
tufted weight	30.0	1,017.17 g/m²
gauge	1/10	39.37 per 10cm
stitches per inch	11.5	45.28 per 10cm
finished pile thickness	0.093	2.36 mm
total thickness	0.263	6.68 mm
average density	11613	430.61 kg/m³
product size	24" x 24"	61 cm x 61 cm
primary backing	synthetic	
secondary backing	ecoworx® tile	
protective treatments	ssp® shaw soil protection	GSA
gsa approved product	yes	

testing

radiant panel	class I
nbs smoke	less than 450
electrostatic propensity	less than 3.5 kv

warranties

lifetime commercial limited

installation method

quarter turn

coordinating products

environmental certification

green label plus certification number	glp 9968
nsf140 platinum	
cradle to cradle silver certified	

Shaw

shawcontractgroup.com | 1 800.257.7429

shaw contract group

welcome tile

collection: steppin out

tile specifications

style name	welcome tile	
style number	59410	CPT-3
construction	hobnail thermal bonded	
fiber	pet polyester	
dye method	100% solution dyed	
	english	**metric**
pattern repeat	none	
tufted weight	50.0	1,695.29 g/m²
gauge	0	0.00 per 10cm
stitches per inch	0.0	0.00 per 10cm
finished pile thickness	0.158	4.01 mm
total thickness	0.385	9.78 mm
average density	11392	422.41 kg/m³
product size	24" x 24"	61 cm x 61 cm
primary backing	synthetic	
secondary backing	ecoworx® tile	
protective treatments	ssp® shaw soil protection	

testing

radiant panel	class I
nbs smoke	less than 450
electrostatic propensity	less than 3.5 kv

warranties

lifetime commercial limited

installation method

quarter turn

coordinating products

bon jour tile

environmental certification

green label plus certification number	glp 0520
nsf140 platinum	

Specifications are subject to nominal manufacturing variances.
Material supply and/or manufacturing processes may necessitate changes without notice.

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TEST REPORT

DATE: 06/08/2005 **TEST NUMBER:** 095915

CLIENT	Stile/Div. of Shaw Industries

TEST METHOD CONDUCTED	ASTM E648-03 Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	59410 Welcome EW 24
COLOR	-----
ROLL	S.O.41776
CONSTRUCTION	Needle Punch
FIBER	-----
BACKING	EcoWorx
REFERENCE	TEST NO: 053105-14

GENERAL PRINCIPLE

This procedure is designed to measure the critical radiant flux at flame out of horizontally mounted floor covering systems exposed to a flaming ignition in a test chamber which provides a graded radiant heat energy environment. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames from a fully developed fire in an adjacent room or compartment. The test result is an average critical radiant flux (watts/square cm) which indicates the level of radiant heat energy required to sustain flame propagation in the flooring system once it has been ignited. A minimum of three test specimens are tested and the results are averaged. Theoretically, if a room fire does not impose a radiant flux that exceeds this critical level on a corridor floor covering system, flame spread will not occur.

The NFPA Life Safety Code 101 specifies as Class 1 Critical Radiant Flux of .45 watts/sq cm or higher and Class 2 Critical Radiant Flux as .22 - .44 watts/sq cm.

FLOORING SYSTEM ASSEMBLY			
SUBSTRATE	Mineral-Fiber/Cement Board	**UNDERLAYMENT**	Direct Glue Down
ADHESIVE	Sureset 5000	**CONDITIONING**	Minimum of 96 hours at 70 ± 5° F and 50 ± 5% relative humidity

This test report relates to the installation in accordance with the criteria set forth in the report. Any variation in the installation criteria may produce different results.

	Distance Burned	**Time To Flame Out**	**Critical Radiant Flux**
Specimen 1	34 cm	29 minutes	0.58 watts/square cm
Specimen 2	33 cm	30 minutes	0.60 watts/square cm
Specimen 3	32 cm	19 minutes	0.62 watts/square cm

Average Critical Radiant Flux	0.60 Watts/Square Cm
Standard Deviation	0.02 Watts/Square Cm
Coefficient of Variation	3 %

*** NOTE:** ***Meets or exceeds Class 1 rating as specified in NFPA Life Safety Code 101.***

APPROVED BY: Gary Calhoun

NVLAP®

714 Glenwood Place Dalton, GA 30721 Phone: 706-226-3283 Fax: 706-226-6787 email: protest@optilink.us

Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0083195
DATE	03/25/04
PAGE	1 of 2

CLIENT	STILE/DIVISION OF SHAW

TEST METHOD CONDUCTED	AATCC Test Method 134-1996 Electrostatic Propensity of Carpets

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	59368 Tru Colours
COLOR	----
ROLL	QM15792
CONSTRUCTION	Loop Pile
FIBER	-----
BACKING	EcoWorx
REFERENCE	TEST NO: 031604-8

TEST RESULTS

MAXIMUM VOLTAGE	NEG 1.0 KV

GENERAL PRINCIPLE

This method is designed to assess the static propensity of flooring material by controlled laboratory simulation of conditions which are known from experience to be strongly contributory to excessive accumulation of static charges.

A flooring material preconditioned to equilibrium at controlled atmospheric conditions is walked on by a test subject in a specified manner with specified shoe soles. The static charges which build up on the tester are monitored continuously by a recorder.

A neolite shoe sole has been chosen as the primary reference material because its static performance is much like that of many common leathers. It is a commonly used shoe sole material and can be easily cleaned, while its chemical and physical properties are quite uniform.

A chrome tanned leather shoe sole has been chosen for a secondary reference material because it is representative of a certain class of leathers whose performance differs significantly from that of neolite soles on certain carpet fiber. Statistically, chrome tanned leather comprises a very small percentage of the shoe sole market, but must be considered in critical applications.

714 Glenwood Place Dalton, GA 30721 706-226-3283 Fax: 706-226-6787 protest@alltel.net