## 2018 IECC CODE COMPLIANCE

I			
	R301.1	CLIMATE ZONE 4A	R402.4.4
I	R401.2	COMPLIANCE METHOD:	
I		MANDATORY AND PRESCRIPTIVE PROVISIONS	
I	R402.1.1	VAPOR RETARDER: WALL ASSEMBLIES IN THE BUILDING THERMAL ENVELOPE	
I		SHALL COMPLY WITH VAPOR RETARDER REQ'S OF SECTION R702.7 OF THE	
I		IRC, 2015 Ed.	
I	R402.1.2	ATTIC INSULATION = R-49	R402.4.5
I		RAISED HEEL TRUSSES = R-38	
	R402.1.2	WOOD FRAME WALL:	R403.1.1
I		R-20 OR R-13 PLUS R5 CONT INSUL	
I	R402.1.2	BASEMENT WALL INSULATION:	
I		R-13 / R-10 FOIL FACED CONT. UNINTERRUPTED BATTS FULL HEIGHT	R403.1.2
I	R402.1.2	CRAWL SPACE WALL INSUL: R-13/R-10 FOIL FACED CONT. BATTS FULL	THE
I	HEIGHT		
		EXTENDING FROM FLOOR ABOVE TO FINISH GRADE LEVEL AND THEN VERT	
		OR HORT AN ADDITIONAL 2'-0"	R403.2.1
	R402.1.2	FLOOR INSULATION OVER UNCONDITIONED SPACE = R-19 BATT INSUL	
	R402.1.2	WINDOW U-VALUE / SHGC .35 (U-VALUE).40 (SHGC)	
	R402.2.10	SLAB ON GRADE FLOORS LESS THAN 12" BELOW GRADE:	MIN.
		R-10 RIGID FOAM BOARD UNDER SLAB EXTENDING EITHER 2'-0" HORT / VERT.	R403.3.2
	R402.2.4	ATTIC ACCESS:	
		ATTIC ACCESS SCUTTLE WILL BE WEATHERSTRIPPED AND INSULATED R-49	
	R402.4	BUILDING THERMAL ENVELOPE (AIR LEAKAGE) EXTERIOR WALLS AND	
		PENETRATIONS WILL BE SEALED PER THIS SECTION OF THE 2015 IECC	
		WITH CAULK, GASKETS, WEATHER STRIPPING OR AN AIR BARRIER OF	R403.6
		SUITABLE MATERIAL. SEALING METHODS BETWEEN DISSIMILAR MATERIALS	
		SHALL ALLOW SEALING FOR DIFFERTIAL EXPANSION AND CONTRACTION.	
	R402.4.1.2	BUILDING ENVELOPE TIGHTNESS TEST:	R403.6.1
		BUILDING ENVELOPE SHALL BE TESTED AND VERIFIED AS HAVING AN AIR	
		LEAKAGE RATE OF NOT EXCEEDING 3 AIR CHANGES PER HOUR. TESTING	R403.7
		SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM E 779 or ASTM E 1827	R404.1
		WITH (BLOWER DOOR) AT A PRESSURE OF 0.2 INCHES w.g. (50 PASCALS).	
I		TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY. A WRITTEN	
		REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY	
	<b></b>	CONDUCTING THE TEST AND PROVIDED TO THE BUILDING INSPECTOR.	
	R402.4.2	FIREPLACES: NEW WOOD BURNING FIREPLACES WILL HAVE TIGHT-FITTING	
I		FLUE DAMPERS OR DOORS, AND OUTDOOR COMBUSTION AIR. FIREPLACE	
		DOORS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL127	
		(FACTORY BUILT FIREPLACE) AND UL907 (MASONRY FIREPLACE).	
1			

#### APPLICABLE CODES

MARYLAND BUILDING PERFORMANCE STANDARDS / MARCH 2019

INTERNATIONAL BUILDING CODE / 2018

NATIONAL ELECTRICAL CODE / 2017

INTERNATIONAL FUEL GAS CODE / 2018

INTERNATIONAL MECHANICAL CODE / 2018

**INTERNATIONAL PLUMBING CODE / 2018** 

INTERNATIONAL PROPERTY MAINTENANCE CODE / 2018

BALTIMORE CITY FIRE AND RELATED CODES **INTERNATIONAL FIRE CODE / 2018** AS AMENDED BY BALTIMORE CITY FIRE CODE

INTERNATIONAL ENERGY CONSERVATION CODE / 2018

INTERNATIONAL RESIDENTIAL CODE, 1- AND 2- FAMILY DWELLINGS / 2018

INTERNATIONAL GREEN CONSTRUCTION CODE / 2012

INTERNATIONAL SWIMMING POOL AND SPA CODE / 2018

(ALL AS INITIALLY ADOPTED, WITH MODIFICATIONS, BY ORDINANCE 20-361 EFFECTIVE MAY 18, 2020)

### **DRAWING LIST**

SHALL BE SEALED TO THE LIMIT AIR LEAKAGE.

SYSTEM AS PER 2015 IECC SECTION 403.1.1

WHEN HEAT PUMP CAN MEET HEATING LOAD

MECHANICAL VENTILATION

TABLE R403 6 1

VISIBLE

LIGHTING EQUIPMENT

DUCTS LOCATED UNDER CONCRETE SLABS = R-6 MIN

EQUIPMENT SIZING SHALL COMPLY WITH R403.7

0000-G=G1	TITLE SHEET & SITE PLAN
0001-G=G2	SITE PLAN
0002-AD=AD1	BASEMENT & FIRST FLOOR DEMO
0003-AD=AD2	SECOND FLOOR & THIRD FLOOR DEMO
0004-AD=AD3	ROOF DEMO
0005-AD=AD4	SIDE DEMO ELEVATION
0006-AD=AD5	FRONT & REAR DEMO ELEVATION
0007-S=S1	BASEMENT AND FIRST FLOOR FRAMING
0008-S=S2	SECOND AND THIRD FLOOR FRAMING
0009-S=S3	ROOF AND PENTHOUSE ROOF FRAMING
0010-A=A1	BASEMENT AND FIRST FLOOR PLAN
0011-A=A2	SECOND AND THIRD FLOOR PLAN
0012-A=A3	ROOF AND PENTHOUSE ROOF PLAN
0013-A=A4	SIDE ELEVATION
0014-A=A5	FRONT AND REAR ELEVATION
0015-A=A6	SECTION

ROOMS CONTAINING FUEL-BURNING APPLIANCES WHERE OPEN COMBUSTION AIR DUCTS PROVIDE COMBUSTION AIR TO OPEN COMBUSTION FUEL BURNING APPLIANCES. THE APPLIANCES AND

COMBUSTION AIR SHALL BE LOCATED OUTSIDE THE BUILDING THERMAL ENVELOPE OR ENCLOSED IN A ROOM ISOLATED FROM INSIDE THE THERMAL ENVELOPE. EXCEPTIONS: 1. DIRECT VENT APPLIANCES WITH BOTH INTAKE AND EXHAUST PIPES INSTALLED CONT TO THE OUTSIDE. 2.

FIREPLACES AND STOVES COMPLYING WITH SECTION R402.4.2 AND SECTION R1006 OF THE IRC RECESSED LIGHTING: RECESSED LUMINARIES INSTALLED IN THE BUILDING THERMAL ENVELOP

- ALL DWELLING UNITS WILL HAVE AT LEAST ONE (1)

WHERE A HEAT PUMP SYSTEM HAVING SUPPLEMENTARY ELECTRIC RESISTANCE HEAT IS USED

MECHANICAL DUCT INSUL SUPPLY & RETURN DUCTS IN ATTIC = R-8 MIN, R-6 WHEN LESS THAN 3

INCHES SUPPLY AND RETURN DUCTS OUTSIDE OF CONDITIONED SPACES R-8 MIN. ALL OTHER

DUCTS EXCEPT THOSE LOCATED COMPLETELY INSIDE THE BUILDING THERMAL ENVELOPE = R-6

JOINTS AND SEAMS WILL COMPLY WITH SECTION M1601.4.1 OR THE IRC. A DUCT TIGHTNESS TEST

(DUCT BLASTER - DUCT TOTAL LEAKAGE TEST) WILL BE PERFORMED ON ALL HOMES AND SHALL BE

NOT REQUIRED IF THE AIR HANDLER AND ALL DUCTS ARE LOCATED WITHIN CONDITIONED SPACE

OUTDOOR, (MAKE UP AND EXHAUST), AIR DUCTS TO BE PROVIDED WITH AUTOMATIC OR GRAVIT

LAMPS. THIS CONTRACTOR ALSO RESPONSIBLE FOR GENERATING A CERTIFICATE OF COMPLIANCE

AND AFFIXING TO ELECTRICAL PANEL OR WITHIN 6 FEET OF THE ELEC PANEL AND BE READILY

WHOLE HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICIENCY TO COMPLY WITH

RIFIED BY EITHER A POST CONSTRUCTION TEST OR A ROUGH IN TEST. DUCT TIGHTNESS TEST IS

PROGRAMMABLE THERMOSTAT FOR EACH SEPARATE HEATING AND COOLING

THERMOSTAT SHALL PREVENT THE SUPPLEMENTARY HEAT FROM COMING ON

DUCT SEALING ALL DUCT, AIR HANDLERS, FILTER BOXES WILL BE SEALED.

DAMPER THAT CLOSE WHEN THE VENTILATION SYSTEM IS NOT OPERATING.

A MINIMUM OF 75% OF ALL LAMPS (LIGHTS) MUST BE HIGH-EFFICIENCY

#### SCOPE OF WORK

INTERIOR EXTERIOR RENOVATION WITH INFILL ADDITION TO REAR. THIS WILL BE A 4 STORY ADDITION. THERE WILL BE NEW STAIRS. BASEMENT WILL HAVE A OFFICE ROOM AND BATH. FIRST FLOOR WILL HAVE A NEW ATTACHED GARAGE TO REPLACE EXISTING ATTACHED GARAGE, BATH, STORAGE, AND BEDROOM, SECOND FLOOR WILL HAVE 2 BATHS, LAUNDRY ROOM, AND 3 BEDROOMS. THIRD FLOOR WILL HAVE A BATH, LIVING ROOM, DINING ROOM, KITCHEN, AND DECK. FOURTH FLOOR WILL HAVE A DECK AND A PENTHOUSE.

# 3424 TOONE ST BALTIMORE, MARYLAND, 21224 SINGLE FAMILY HOME - INFILL ADDITION



