2027 FECR 103.2 ENERGY AND HVAC INFORMATION FORM / BUILDING ENVELOPE AND SYSTEM(S) DATA

INFO REQUIRED

PROVIDE THIS FORM AND COPYRIGHT FREE PDF PERMIT READY ARCHITECTURAL DRAWINGS INCLUDING: SITE PLAN or NORTH ARROW, SCALED BUILDING FLOOR PLAN AND ROOM NAMES, ELEVATIONS, WALL SECTION, CONDITIONED LIVING AREA SQUARE FEET FOR EACH BUILDING LEVEL, GARAGE AREA SQUARE FEET, STRUCTURAL FLOOR FRAMING PLANS FOR MULTI-LEVEL BUILDINGS. SHOW OUTDOOR HVAC EQUIPMENT AND AIR HANDLER LOCATIONS ON DRAWINGS.

EXISTING BUILDING : PROVIDE YEAR OF CONSTRUCTION, DUCT SKETCH OF SYSTEM(s), SHOW SUPPLY, RETURN, EXHAUST, AND HVAC EQUIP. MODEL #'s.
WHEN BUILDING DRAWINGS ARE NOT AVAILABLE, VISIT OUR WEBSITE FOR A SAMPLE SKETCH SHOWING DATA REQUIRED.
USE NOTES SECTION AT FORM BOTTOM FOR ADDITIONAL INFORMATION.

HVAC DESIGN

HVAC CAD DESIGN PROVIDED INCLUDES ACCA MANUALS AND ENERGY CODE FORMS BASED ON VALUES REQUIRED TO PASS THE ENERGY CODE.
FECC BASELINE "RECOMMENDED" VALUES WILL BE USED WHEN FORM DATA IS NOT SELECTED OR DATA IS NOT SHOWN ON PERMIT DRAWINGS.
DESIGN ASSUMPTIONS: BLOWER DOOR TEST SCORE OF 5.0 (ACH50) USED UNLESS NOTED BELOW; 55 GALLON MAXIMUM STORAGE WATER HEATER(S);
MASTIC SEALED R8 DUCTS EXTERIOR / R6 DUCTS INTERIOR; SEMI-TIGHT BUILDING ENVELOPE CONSTRUCTION PRACTICE; MECHANICAL VENTILATION AIR;
WALL COLOR ABSORPTANCE FACTORS: WHITE .30, LIGHT .35, MEDIUM .45, DARK .65; VENTED ATTIC VENT RATE 1/300; AND PROGRAMMABLE THERMOSTAT.
DURING CONSTRUCTION BUILDER MUST MEET OR EXCEED ENVELOPE COMPONENT VALUES AND EQUIP. EFFICIENCIES SHOWN ON THE ENERGY FORM(S).

CLIENT

COMPANY NAME:	
CONTACT PERSON:	
CONTACT PHONE:	
CONTACT E MAIL:	
BUILDER NAME:	

PROJECT

NAME:	
*ADDRESS:	
CITY:	
*COUNTY:	
*PERMIT OFFICE:	

*SITE	DIRECTION FRONT DOOR FACES:	N	NE	E	SE	S	SW	W	NW	FLOOD ZONE BFE =	FEET

WINDOWS AND DOORS

	ENVELOPE COMPONENT	FRAME MATERIAL			GLASS PANES		GLASS COATING			IMPACT		NFRC RATED	
		METAL	WOOD	VINYL	SINGLE	DOUBLE	CLEAR	TINT	LOW E	YES	NO	U VALUE	SHGC
1	EXISTING REUSED WINDOW + GLASS DOORS											1.08	.75
2	OPERABLE WINDOW			✔		✔			✔			.4	.25
3	FIXED GLASS WINDOW			✔		✔			✔			.4	.25
4	SLIDING GLASS DOOR			✔		✔			✔			.4	.25
5	FRENCH / GLASS SWING DOOR			✔		✔			✔			.4	.25
6	SKYLIGHT											.46	0.27
7	SOLARTUBE											.28	.25
8	SOLID WOOD DOOR											.39	
9	INSULATED METAL OR FIBERGLASS DOOR											.35	
	FECC BASELINE GLASS VALUES:	VINYL			DOUBLE		LOW E			NO		0.4	0.25

FLOORS

	ENVELOPE COMPONENT	% TILE	% WOOD	% CARPET	INSULATION "R"	FECC BASELINE VALUES
1	CONCRETE SLAB ON GRADE	40	40	20	0	SLAB ON GRADE = NO INSUL.
2	RAISED WOOD OR CONCRETE (MUST INSULATE)				13	RAISED FLOORS = R-13 INSUL.
3	(OTHER)					TILE/WOOD/CARPET .4 .4 .2

WALLS

	ENVELOPE COMPONENT (COLOR CHART)	*EXTERIOR COLOR			INSULATION LOCATION			INSUL.	FECC BASELINE VALUES
		LIGHT	MEDIUM	DARK	INTERIOR	EXTERIOR	CORE FILL	"R"	
1	EXISTING UNINSULATED CONCRETE BLOCK							0	FRAME = R-13 INSUL.
2	INSULATED CONCRETE BLOCK							4	BLOCK CONTINUOUS = R-6
3	WOOD FRAME 2x4							13	EXTERIOR WALL COLOR
4	WOOD FRAME 2x6							19	ABSORPTANCE FACTOR =.45
5	INSULATED CONCRETE BLOCK + CORE INSULATION							12	

ROOFS

	ENVELOPE COMPONENT	*SLOPE	*EXTERIOR COLOR TEST				ROOF COVER MATERIAL						FECC BASELINE VALUES
		PITCH(S)	WHITE	LIGHT	MEDIUM	DARK	SHINGLE	METAL	BARREL TILE	FLAT TILE	TPO MEMB	GRAVEL	
1	HIP	6/12											ON ROOF DECK = R-38
2	GABLE OR SHED	6/12											SINGLE ASSEMBLY = R-38 ROOF=.79
3	FLAT NO SLOPE												ABSOR .92 EMITT

CEILINGS

	ENVELOPE COMPONENT	TRUSS MATERIAL		INSULATION LOCATION		INSULATION TYPE			INSUL.	FECC BASELINE VALUES
		WOOD	METAL	AT CEILING	AT ROOF	BATTS	BLOWN	FOAM	"R"	
1	HOT VENTED ATTIC								38	CEILINGS = R-38 INSUL.
2	HOT VENTED ATTIC KNEE WALL								38	ATTIC KNEE WALL = R-38 INSUL.
3	WARM UNVENTED ATTIC + BREAK WALLS								20	ROOF DECK = R-38 INSUL.
4	SINGLE ASSEMBLY / 2x6 FRAME								19	ATTIC BREAK WALL = R-38 INSUL.

BUILDING SYSTEMS

WATER HEATER FUEL			WATER HEATER LOCATION				TANK TYPE		STORAGE TANK	EFFICIENCY	FECC BASELINE VALUES
ELECTRIC	NATURAL GAS	PROPANE	GARAGE	INTERIOR	ATTIC	EXTERIOR	TANKLESS	TANK	GALLONS (55 MAX)	UEF	TANK ELECTRIC / GAS = .92 UEF
											TANKLESS ELECTRIC = .96 UEF

	HVAC SYSTEM(S)	OUTSIDE EQUIP. LOCATION			AIR HANDLER LOCATION				FECC BASELINE VALUES
		ON GRADE	RAISED > BFE	ROOF	GARAGE	INTERIOR	ATTIC	EXTERIOR	
1	SPLIT HEAT PUMP								ENERGY CALC'S DETERMINE EFFICIENCIES REQUIRED
2	SPLIT HEAT PUMP								ACCA CALC'S DETERMINE EQUIPMENT AND DUCT SIZING
3	SPLIT HEAT PUMP								
4	SPLIT HEAT PUMP								

CREDIT

VENTED ATTIC	COOL ROOF	CEILING FAN	THERMOSTAT(S)	DUCT TEST	WATER HEATER	R-8 DUCTS	VERIFIED ENVELOPE TEST
RADIANT BARRIER	REFLECTANCE > 4%	BEDS + PRIM. LIVING	PROGRAMMABLE	4% MAX LEAK	HEAT PUMP	(REQ. 402 METHOD)	BLOWER DOOR ACH50 SCORE
			✔				

NOTES

PLACE ENERGY FORM SIGNATURE INSIDE BOX BELOW

SAVE COMPLETED FORM, THEN MAIL TO: NEIL@HVACDESIGNS.COM NEIL (813) 885 2258