BUILDER SPECIFICATION CHECKLIST

Builder Name:	Job Name:			
Slab on Grade Insulation R-Value:	# Feet Down:	# Feet In:		
Is there a THERMAL BREAK to separate the slab floor		eg bevel at foam board) Yes: No:		
Crawl Wall Insulation R-Value:	Full Wall?	If No, # Feet Down:		
Finished Bsmt INTERIOR Insulation R-Value:	Full Wall?	If No, # Feet Down:		
Unfinished Bsmt INTERIOR Insulation R-Value:	Full Wall?	If No, # Feet Down:		
Found Wall Insulation R-Value (EXTERIOR):	Full Wall?	If No, # Feet Down:		
Rim Joist Insulation R-Value:				
Above Grade Wall Insulation Cavity R-Value:	Sheathing Material/R-V	alue:		
Attic Knee Wall Insulation Cavity R-Value:	Sheathing Material/R-V	alue:		
Attic Insulation R-Value:				
Frame Floor Over Garage R-Value:				
Windows U-Value:	SHGC:			
Gas Furnace AFUE:				
A/C Seer:				
Heat Pump HSPF:				
Water Heater EF:	Gallons:			
LIGHTING - %CFL:	% LED:	% Incandescent:		
Refrigerator kWh/year:	(If Available)			
Dishwasher EF:	(If Available)			
Air Leakage Rate (ACH50):	`	ges unless you note otherwise)		
% Duct Leakage Rate:	(We will use 5% leakage unless otherwise noted)	for slab/crawl and 4% for basement		
What type of FRESH AIR SYSTEM is installed?	System Type:			
(Examples: Dampered passive duct to return trunk with ECM HV	AC motor, continuously running	exhaust fan, ERV systems, etc.)		
If the home is on a crawl, is it a conditioned crawl with acc	cess located in side the hon	ne? Yes O		
If the home is on a conditioned crawl (with the access inside overall performance. If you are building a conditioned craw moisture and install the visqueen (at least temporary visque moisture/mold problems in the crawl during construction. The www.tsienergysolutions.com, in the result of the condition of the co	wl, make sure a dehumidifier een) AS SOON AS POSSIBLE ere is helpful information regar	is used during construction to reduce AFTER ROOF IS INSTALLED to avoid ding conditioned crawls on our website,		
Additional Notes to TSI				
Please sign and date below if the above information	on is correct regarding your curr	rent building specifications.		
Signature:		Date:		

Mechanical Ventilation Information

 Under the 2020 Indiana Residential Code, whole house ventilation is required under section N1103.6 and M1505 of the IRC. The amount of ventilation required is determined by the following chart:

TABLE M1505.4.3(1)
CONTINUOUS WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM AIRFLOW RATE REQUIREMENTS

DWELLING UNIT FLOOR AREA (square feet)		NUMBER OF BEDROOMS					
	0 – 1	2 – 3	4 – 5	6 – 7	> 7		
		Airflow in CFM					
< 1,500	30	45	60	75	90		
1,501 – 3,000	45	60	75	90	105		
3,001 – 4,500	60	75	90	105	120		
4,501 – 6,000	75	90	105	120	135		
6,001 – 7,500	90	105	120	135	150		
> 7,500	105	120	135	150	165		

For SI: 1 square foot = 0.0929 m^2 , 1 cubic foot per minute = 0.0004719 m^3 /s.

TABLE M1505.4.3(2)
INTERMITTENT WHOLE-HOUSE MECHANICAL VENTILATION RATE FACTORS^{a, b}

RUN-TIME PERCENTAGE IN EACH 4-HOUR SEGMENT	25%	33%	50%	66%	75%	100%
Factor ^a	4	3	2	1.5	1.3	1.0

- $a. \ \ For ventilation \ system \ run \ time \ values \ between \ those \ given, \ the \ factors \ are \ permitted \ to \ be \ determined \ by \ interpolation.$
- b. Extrapolation beyond the table is prohibited.
- Some typical examples of whole house ventilation include an ERV / HRV (balanced system that
 pulls air into home while simultaneously exhausting air out), supply ventilation to HVAC system
 (creates positive pressure in home) and continuous exhaust fan (creates negative pressure in
 home).
- There is debate among national organizations and experts on how much ventilation is appropriate and the amount needed will vary depending on homeowner lifestyle, climate, seasons, etc. Regardless of those debates, TSI must follow the Indiana Residential Code with the Performance Path analysis.
- Under-ventilating a home may lead to indoor air quality issues, and in the winter, may lead to condensation on cold surfaces like windows.
- Over-ventilating a home may lead to excessive energy use, and in the summer, may lead to
 higher indoor relative humidity levels. Higher indoor humidity may cause comfort and possible
 biological growth issues. Supplemental dehumidification may be necessary in some cases.
- With any ventilation system it is important that it is adjustable to meet the various lifestyles
 and habits of the homeowners, from season to season. Homeowner education on the type of
 mechanical ventilation and how it can be adjusted may improve home performance.