APPENDIX J PRESCRIPTIVE COMPLIANCE WORKSHEET

This worksheet(s) shall be provided on all one and two family dwellings and/or room additions. Trade-off calculations for any component shall be attached with this sheet showing a BTU-for BTU evaluation. Trade off calculations may be performed by satisfying the requirements of the 1995 MEC Check Version 2.0-1995 except that high efficiency equipment may not be traded off against envelope components. A worksheet shall be provided for each different assembly. The entries in this Appendix do not include all products. Alternate materials (other) can be qualified in accordance with Section 108.

COMPONENT	PRODUCTS	R-VALUE BETWEEN FRAMING	TO BE USED
Inside Air Film	(to be included for all situations)	0.61	not counted
Interior Finish	¹ /2" Drywall	0.45	
	5/8" Drywall	0.56	not counted
	(Other)		
Mineral Fiber or	R-19 Batts	19.00	
loose fill or	R-22 Batts	22.00	
cellulose	R-30 Batts	30.00	
	R-38 Batts	38.00	
	(Other)		
Insulation	1" Expanded Polystyrene Foam	3.80	
Sheathing on	1" Extruded Polystyrene Foam	5.00	
Inside or Rafter	1" Polyurethane	7.20	
	1" Polyisocyanurate	7.20	
	(Other)		
Outside Air Film	(to be included for all situations)	0.17	not counted
R-Value Between H	Framing of Ceiling Zones 6, 7, Zones 11	8, & 9 must be R30 must be R38	or more:

Trade-off calculations (Section 3901.7) must be attached for cathedral ceilings of less than R-30 for Zones 6, 7, 8, &9 or R-38 for Zone 11. Use of skylights will require trade off calculations.

COMPONENT	PRODUCTS	R-VALUE BETWEEN FRAMING	TO BE USED
Inside Air Film	(to be included for all Situations)	0.61	not counted
Mineral Fiber	R-19 batts	19.00	
Flooring	(sub-floor + finished floor value)		not counted
Outside Air Film	(to be included for all situations)	0.17	not counted

SLAB-ON-GRADE must have R-5 perimeter insulation extending a total linear distance of at least 24". Slab insulation must extend 1) down from the top of the slab, or 2) down form the top of the slab to the bottom of the slab and then horizontally underneath the slab, or 3) down from the top of the slab and then horizontally away from the slab, with pavement or at least 10 inches of soil covering the horizontal insulation.

A heated slab requires a minimum R-7 perimeter insulation.

ONE AND TWO FAMILY DWELLING CODE

	PRESCRIPTIVE COMPLIANCE FOR OPAG	R-VALUE BETWEEN	TO BE	
COMPONENT PRODUCTS		FRAMING	USED	
Inside Air Film	(to be included for all situations)	0.68	not counted	
Interior Finish	1/2" Drywall	0.45		
	5/8" Drywall	0.56	not counted	
	Interior Paneling	0.25		
	(Other)			
Mineral Fiber	R-11 Batts	11.00		
w/Vapor	R-13 Batts	13.00		
Retarder	R-15 Batts	15.00		
	R-19 Batts (compressed to 5 1/2")	18.00		
	R-21 Batts	21.00		
Loose Fill	Cellulose fiber insulation $(3.5 \text{ pcf x } 3 1/2")$	12.00		
	(Other)			
Sheathing*	1/2" Reg. Density fiber insulation board	1.32		
C	1/2" Inter. Density fiber insulation board	1.22		
	25/32" Reg. Density fiber insulation board	2.06		
	3/8" Plywood/OSB	0.47		
	1/2" Plywood/OSB	0.62		
	5/8" Plywood/OSB	0.77		
	3/4" Plywood/OSB	0.93		
	1/2" Expanded Polystyrene Foam	1.90		
	3/4" Expanded Polystyrene Foam	2.85		
	1" Expanded Polystyrene Foam	3.80		
	1/2" Extruded Polystyrene Foam	2.50		
	3/4" Extruded Polystyrene	3.75		
	1" Extruded Polystyrene Foam	5.00		
	3/4" Polyurethane with impermeable facing	5.40		
	1" Urethane	7.20		
	3/4" Urethane	5.40		
	(other)	- · -		
Exterior Finish	1/2" Hardbaord	0.67		
	3/8" Plywood	0.47		
	Alum., Vinyl, or Steel siding (hollow-backed)	0.62	not counted	
	1/2" Beveled, 8" lapped siding	0.81		
	3/4" Beveled, 10" lapped siding	1.05		
	4" Face Brick Veneer + air space	1.38		
	(other)			
Outside Air Film	(to be included for all situations)	0.17	not counted	
	ming of Opaque Wall Zones 6, 7, 8, or 9			
Zones 11 must be 16 or more:				
or complies with Section 3902 Exception 1 2 3				

PRESCRIPTIVE COMPLIANCE FOR OPAQUE WALL

*Sheathing is not counted if it is the exterior finish.

In determining wall insulation compliance with Table 3905, wood structural sheathing may be substituted for fiberboard sheathing or other insulated sheathing of R1.3 or greater at corners of walls and every 25 feet of wall length as required for structural wall bracing per Table 602.9 without requiring a trade off calculation for:

- 1. Zones 6, 7, 8, and 9 when using an R13 insulation batt in the wall cavity, or
- 2. Zone 11 when using an R15 insulation batt in the wall cavity.

PRESCRIPTIVE COMPLIANCE FOR UNGLAZED DOOR, GLASS, DOOR & WINDOW UNITS

1. A gross wall: Gross Area of Exterior Wall Enclosing Conditional Space (includes the nominal area of all doors and windows in these walls): _____ft²

Note: The wall between an unconditional garage and conditional space is counted because it is part of the building's thermal envelope. The exterior wall separating the unconditional garage from the outdoors would not be counted.

1. Total area of windows and doors separating space from unconditional space or the outdoors:

a. Nominal area of unglazed doors	ft ²
b. Nominal area of doors with glazing	ft ²
c. Nominal area of windows	ft ²
Total nominal area of windows and doors	ft²

2. Percent (%) window and door opening =

Total Nominal Area of Windows and Doors (See2) X 100 = X 100 = ----%

- 3. Identify your Thermal Zone. Zone____6____ (Refer to Figure 3901.)
- 4. Identify your window unit types and U values. Enter a check mark in the column for your types.

CHECK IF	WINDOW TYPE	DEFAULT U VALUE OR
APPLICABLE		ENTER ACTUAL U VALUE
	Double glazed metal frame	0.67 or
	with thermal break	
	Double glazed wood vinyl	0.56 or
	Double glazed wood vinyl	
	with low emissivity coating	0.52 or
	Triple glazed wood vinyl with	
	low emssivity coated and inert	
	gas fill in spaces	0.35 or
	Other	

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Identify the largest U value from Window Unit Types (See 5) and its corresponding column in the Table below. Identify your Thermal Zone (See 4) for entering correct line of Table. The intersection of your Thermal Zone line with your window U value column entry identifies percent (%) window and door opening allowed compared to gross wall area. Enter % from table: ______

% WINDOW & DOOR OPENINGS ALLOWED				
ZONE	METAL/THERMAL	WOOD VINYL	WOOD WIDTH	WOOD VINYL LOW-E-INERT
	BREAK U=0.67	U=0.56	LOW U=0.52	GAS HIGH PERFORMANCE
				U=0.35
6	17	21	23	33
7	15	18	20	28
8	14	16	18	25
9	13	15	16	23
11	9	13	14	17

Enter % of actual area of windows and doors form 3: _____

If % for Table is less than % from 3, then trade-off calculations are required. Recommend use MEC check 1995 version 2.0. If % form Table is equal to or greater than % from 3, then the prescriptive requirement is met for window and door openings.