

# ENERGY REDUCTION STRATEGY FOR NEW ONE AND TWO FAMILY DWELLINGS.

## TYPICAL ROOF

ASPHALT SHINGLES  
EAVE PROTECTION UP ROOF 3'-0"  
ROOF SHEATHING  
PRE-ENGINEERED ROOF TRUSSES  
C/W A 10" HEEL HEIGHT ABOVE THE TOP PLATE.  
EAVE VENTING BETWEEN TRUSSES  
R40 INSULATION (MINIMUM)  
WOOD STRAPPING  
POLY AIR/VAPOUR BARRIER SEALED TIGHT  
GYPROC SHEATHING

## EAVE

EAVE PROTECTION  
FASCIA BOARD  
ALUMINUM WEATHER TRIM ON EXPOSED WOOD  
PERFORATED SOFFIT AT EAVE

## WINDOW/DOOR OPENINGS

REINFORCED LINTEL OVER OPENINGS  
ROUGH OPENING FILLED WITH NON-EXPANDABLE SPRAY FOAM  
WINDOW & DOOR BOXES TO BE BUILT-OUT FLUSH WITH GYPROC  
LOW E ARGON FILLED ENERGY STAR RATED WINDOWS  
AND DOORS. (CLIMATE ZONE B,C,D)

## TYPICAL HEADER SPACE

SIDING AS PER OWNER'S SPECS  
BUILDING PAPER  
WALL SHEATHING  
FLOOR JOISTS  
AT SILL - 2" x 6" PRESSURE TREATED SILL PLATE  
1/2" DIA. ANCHOR BOLTS @ 8'-0" O.C.  
SILL GASKET  
INSULATION AS REQUIRED

## TYPICAL EXTERIOR WALL

SIDING AS PER OWNER'S SPECS  
BUILDING PAPER  
WALL SHEATHING  
2" x 6" WOOD STUDS  
R20 FIBREGLAS BATT INSULATION  
POLY AIR/VAPOUR BARRIER SEALED TIGHT  
AIR TIGHT ELECTRICAL BOXES SEALED  
GYPROC SHEATHING

## BASEMENT WALL

BACKFILL - NO BOULDERS WITHIN 2'-0" OF WALL  
2 COATS OF ASPHALT DAMP PROOFING  
8" THICK CONCRETE WALL,  
FORM TIE ENDS REMOVED AND SEALED.

## FOOTING AREA

CONCRETE FOOTING ON SOLID  
UNDISTURBED SOIL WITH KEY-WAY  
4" DIA. PLASTIC DRAINAGE TILE AT FOOTING WITH  
6" OF 3/4" TO 1 1/2" CRUSHED WASHED STONE COVER. (MIN)

## 4 Foot Foundation Wall

10" (min)

## TYPICAL FLOOR

FINISH FLOORING  
SUB-FLOOR GLUED & NAILED  
FLOOR JOISTS  
STRAPPING  
GYPROC SHEATHING (FINISHED AREAS)

1" RIDGID INSULATION AIRSEALED LOW PERMEANCE  
C/W R-20 BATT INSULATION

## FINISHED AREA

1 1/2" RIDGID INSULATION MINIMUM R-4  
2" x 4" SUDS @ 24" O.C.  
R12 FIBREGLAS INSULATION  
POLY AIR/VAPOUR BARRIER SEALED TIGHT

## BASEMENT FLOOR

FINISH FLOORING  
3" CONCRETE PAD (MIN.)  
POLY AIR/VAPOUR BARRIER SEALED TIGHT  
4" OF 1 1/2" CRUSHED STONE - RAKED & LEVEL

FINISH GRADE

## WALL SECTION

N. T. S.

## CHECKLIST FOR ENERGY REDUCTION

- ATTIC INSULATION R-40
- HEADER SPACES TO INSULATED ALL AREAS, INCLUDING OVER WINDOWS WHERE POSSIBLE.
- RAISED HEEL OR CANTILEVER ROOF TRUSS C/W A 10" HEIGHT ABOVE TOP PLATE.
- DOMESTIC WATER HEATER WITH A STAND BY LOSS OF 70 OR LESS.
- WINDOWS / DOORS TO BE LOW E ARGON FILLED ENERGY STAR ZONE (B,C,D).
- R-16 INSULATION MINIMUM FOR BASEMENT.
- HEAT RECOVERY VENTILATION ENERGY STAR RATED.
- THERMOSTATS TO BE PROGRAMMABLE OR ELECTRONIC WITH A TEMPERATURE RATING OF +/- 0.5C
- AIR LEAKAGE
  - AIR TIGHT ELECTRICAL BOXES C/W ACOUSTIAL SEALANT.
  - SOLID RIDGID BACKING FOR ELECTRICAL, PLUMBING AND MECHANICAL ON EXTERIOR WALLS/CEILINGS.
  - ALL WINDOWS / DOORS TO BE SEALED AROUND FRAME AND JAMB WITH A LOW EXPANSION FOAM MUST BE INPLACE ON INS/VB INSPECTION.
  - 1" RIDGID INSULATION IN ALL HEADERS SPACES SEALED TIGHT WOODEN JOISTS TO BE SEALED BOTH PERPENDICULAR & PARRALLEL.
  - ALL EXTERIOR WALL BOTTOM PLATES TO FLOOR INTERSECTIONS TO BE SEALED.
  - ALL JOINS IN THE VAPOR BARRIER TO BE SEALED OVER STUDS OR STRAPPING.

\* ALL CONSTRUCTION TO COMPLY WITH THE LATEST EDITION OF THE N.B.C. OF CANADA

▲ - DENOTES AREA TO BE AIR SEALED.

\* IF ALL OF THE ABOVE ARE CAREFULLY COMPLETED THE DWELLING SHOULD MEET THE ENERGY TARGETS OF A HOME BUILT & TESTED TO ENERGUIDE 80. APPLICANTS ALSO HAVE THE OPTION OF HAVING THEIR PLANS ANALYZED BY AN INDEPENDENT CERTIFIED AGENCY IF THEY WISH TO DIFFER FROM THESE PRESCRIBED REQUIREMENTS.

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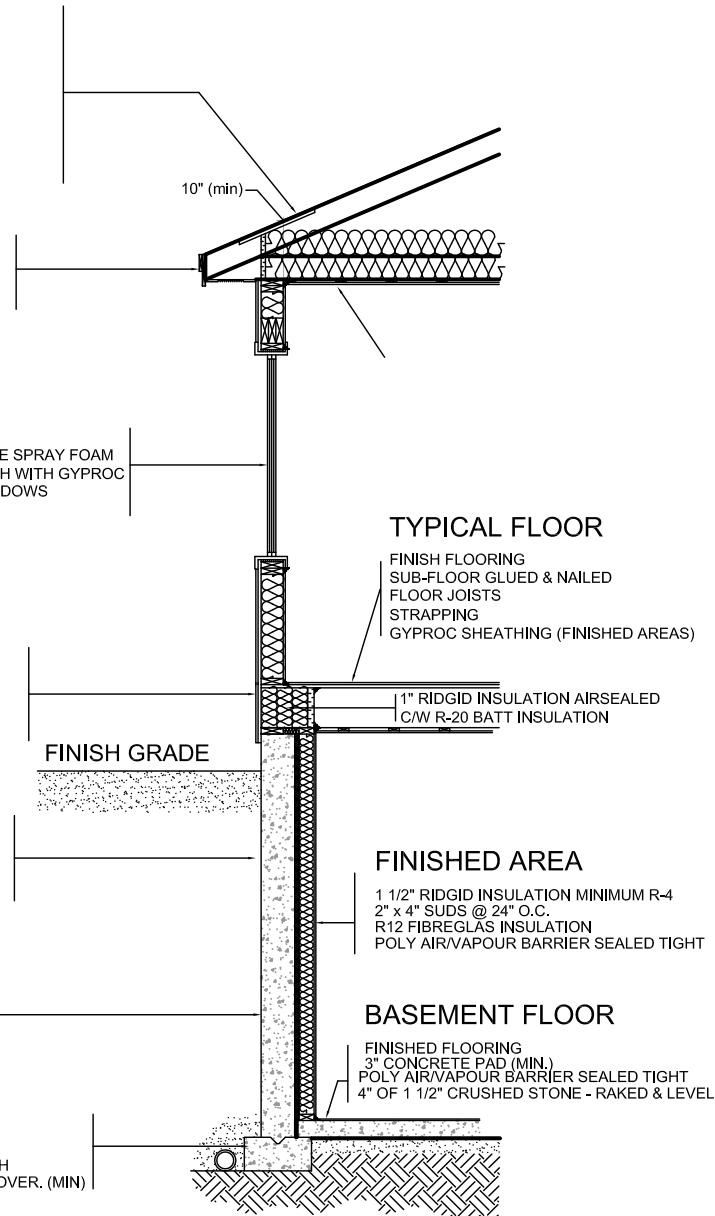
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8 Foot Foundation Wall



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