SCHEERHOORN COTTAGE



ELEVATION:





KEY MAP 2 OR SCHEMATIC SITE PLAN:

ENERGY EFFICIENCY DESIGN AS PER OBC 2012 SB-12: GROSS WALL AREA - 2,504.92 SQ FT (232.72M2) GROSS WINDOWS, GLASS AREA ETC. - 456.95 SQ FT (42.45м2) RATIO - 18.24%

TABLE 3.1.1.2.A (IP) ZONE 1 - COMPLIANCE PACKAGES FOR SPACE HEATING EQUIPMENT WITH AFUE ≥ 92% FORMING PART OF SENTENCE 3.1.1.2.(1)

| COMPONENT | THERMAL VALUES 171 | COMPLIANCE PACKAGES | | | | | |
|--|---------------------------------|---------------------|-----------|------------|----------|----------|----------|
| | | A1 | AZ | EA | A4 | A5 | A6 |
| | MIN. NOMINAL R ⁽¹⁾ | 60 | 60 | 50 | 60 | 50 | 60 |
| CEILING WITH ATTIC SPACE | MAX. 🛛 😰 | 0.017 | 0.017 | 0.020 | 0.017 | 0.020 | 0.017 |
| allanimoodened adding converts con 10 000 as course outside as monotours | MIN. EFFECTIVE R ⁽²⁾ | 59.22 | 59.22 | 49.23 | 59.22 | 49.23 | 59.22 |
| | MIN. NOMINAL R ^m | 31 | 31 | 31 | 31 | 31 | 31 |
| | MAX. ⊔ ⁽²⁾ | 0.036 | 0.036 | 0.036 | 0.036 | 0.036 | 0.036 |
| SPACE | MIN. EFFECTIVE R ⁽²⁾ | 27.65 | 27.65 | 27.65 | 27.65 | 27.65 | 27.65 |
| | MIN. NOMINAL R ^m | 31 | 31 | 35 | 31 | 35 | 31 |
| EXPOSED FLOOR | MAX. ⊔ ^(a) | 0.034 | 0.034 | 0.031 | 0.034 | 0.031 | 0.034 |
| | MIN. EFFECTIVE R ⁽³⁾ | 29.80 | 29.80 | 32.02 | 29.80 | 32.02 | 29.80 |
| | MIN. NOMINAL R ^m | 22 | 19 + 5ci | 14 + 7.5ci | 22 + 5ci | 19 + 5ci | 22 + 5ci |
| WALLS ABOVE GRADE | MAX. LI ^(a) | 0.059 | 0.049 | 0.054 | 0.047 | 0.049 | 0.047 |
| and the second sec | MIN. EFFECTIVE R ⁽³⁾ | 17.03 | 20.32 | 18.62 | 21.40 | 20.32 | 21.40 |
| | MIN. NOMINAL R ⁽¹⁾ | 20ci | 12 + 10ci | 2001 | 20ci | 12 + 5ci | 20ci |
| BASEMENT WALLS (6) | MAX. ⊔ ⁽⁴⁾ | 0.047 | 0.048 | 0.047 | 0.047 | 0.063 | 0.047 |
| | MIN. EFFECTIVE R ⁽⁴⁾ | 21.12 | 20.84 | 21.12 | 21.12 | 15.96 | 21.12 |
| BELOW GRADE SLAB | MIN. NOMINAL R ^m | | | | | | |
| ENTIRE SURFACE > 600MM | MAX. ⊔ ⁽⁴⁾ | | - | | - | | |
| BELOW GRADE | MIN. EFFECTIVE R ⁽⁴⁾ | | | - | - | | |
| HEATED SLAB OR | MIN. NOMINAL R ^m | 10 | 10 | 10 | 10 | 10 | 10 |
| SLAB ≤ 600MM BELOW | MAX. ⊔ ⁽⁴⁾ | 0.090 | 0.090 | 0.090 | 0.090 | 0.090 | 0.090 |
| GRADE | MIN. EFFECTIVE R ⁽⁴⁾ | 11.13 | 11.13 | 11.13 | 11.13 | 11.13 | 11.13 |
| EDGE OF BELOW GRADE | | | | | | | |
| SLAB ≤ 600MM BELOW | MIN. NOMINAL R ^m | 10 | 10 | 10 | 10 | 10 | 10 |
| GRADE | | | | | | | |
| WINDOWS AND SLIDING | MAX. ⊔ ⁽⁵⁾ | 0.28 | 0.28 | 0.25 | 0.28 | 0.28 | 0.28 |
| GLASS DOORS | ENERGY RATING | 25 | 25 | 29 | 25 | 25 | 25 |
| SKYLIGHTS | MAX, U ⁽⁵⁾ | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 |
| SPACE HEATING EQUIP. | MIN. AFUE | 96% | 96% | 94% | 96% | 94% | 92% |
| HRV | MIN. SRE | 75% | 75% | 81% | 75% | 70% | 65% |
| DDM. WATER HEATER | MIN. EF | 0.80 | 0.70 | 0.67 | 0.67 | 0.80 | 0.80 |
| COLUMN 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

SB-12, 3.1.1.1.

(8) EXCEPT AS PERMITTED IN SENTENCES 3.1.1.11.(3). WHERE THE RATIO OF SIDELIGHTS, SKYLIGHTS, GLAZING IN DOORS AND SLIDING GLASS DOORS TO MEASURED FROM GRADE TO THE TOP OF THE UPPER MOST CEILING IS MORE BUILDING SHALL COMPLY WITH A COMPLIANCE PACKAGE SELECTED FROM TA 3.1.1.3.A TO 3.1.1.3.C AND TABLE 3.1.1.11 AND THE OVERALL COEFFICIENT

- SHALL BE UPGRADED TO (A) 1.6 WHERE 1.8 IS REQUIRED BY THE SELECTED COMPLIANCE PACKAGE (B) 1.4 WHERE 1.6 IS REQUIRED BY THE SELECTED COMPLIANCE PACKAGE
- (C) 1.2 WHERE 1.4 IS REQUIRED BY THE SELECTED COMPLIANCE PACKAGE (D) 1.0 WHERE 1.2 IS REQUIRED BY THE SELECTED COMPLIANCE PACKAGE

(SEE APPENDIX A.)

NOTES TO TABLE 3.1.1.2.A (IP): (1) THE VALUES LISTED ARE MINIMUM NOMINAL R VALUES FOR THE THERMAL (2) U-VALUE AND EFFECTIVE R VALUE SHALL INCLUDE ENTIRE CEILING ASSEMB

- FILM TO VENTED SPACE AIR FILM ABOVE INSULATION (3) U-VALUE AND EFFECTIVE R VALUE SHALL INCLUDE ENTIRE EXPOSED FLOOR
- COMPONENTS, FROM INTERIOR AIR FILM TO EXTERIOR AIR FILM (4) U-VALUE AND EFFECTIVE R VALUE SHALL INCLUDE ENTIRE BASEMENT WAL
- INTERIOR AIR FILM (5) U-VLAUE IS THE OVERALL COEFFICIENT OF HEAT TRANSFER FOR A WINDOW
- ASSEMBLY OR SKYLIGHT ASSEMBLY EXPRESSED IN BTU/(H*FT²*F) (6) IN THE CASE OF BASEMENT WALL ASSEMBLIES, WHERE R200 IS REQUIRE
- VISE VERSA; OR WHERE R12 + 5ci IS REQUIRED, R15ci IS PERMITTED TO B (7) IF AN EF OF A WATER TANK IS NOT INDICATED IN A COMPLIANCE PACKAGE, FOR THAT SPECIFIC COMPLIANCE PACKAGE.
- (B) NOMINAL AND EFFECTIVE R VALUES ARE EXPRESSED IN (H*FT *F)/BTU AND SPACE HEATING FUEL X NATURAL GAS

OTHER CONDITIONS

PROPANE SLAB-ON-GRADE WALK-DUT BASEMENT X ICF ABOVE BLOWN-IN INSULATION SPRAY-API ABOVE GRADE WALL INSULATIO GRADE WAL

SOLID FUE □≥84% - <9 X ICF BASEN





| | | | | | | | | | | ĸ | EY MAP 1: | | | | | | | |
|---|---|---|---|---|---|---|------------------------|--------------------------------|--|--|--|--|---|---|--|---|--|---|
| | | 2024 Ontario Building Code Matrix - Parts 3 & 9 | | | | | | | | | | | | | | | | |
| | PROJECT DESCRIPTION: | | | Image: Second | | | | | | | | | □F 1.3 | PART 3 (DIVISION) 1.3.3.[A] | | ☑ PART 9 [DIVISI□N] 1.3.3.[A] / 9.10.1.3.[B] | | |
| | MAJOR OCCU SUPERIMPOS BUILDING AR | PANCY(S): ED MAJOR (EA (M²): | JCCUPANCY | '(5): | C - RES | IDENTIAL 0 NO (X) N/. G: 0.00 | CCUPA A DESI NEW | ANCY CRIPTI /: 66.4 | DN: 3 | | TOTAL: | 66.43 | | 3.1 3.2 1.4 | .2.1.(1)[B] .2.7. [B] .1.2.[A] | | 9.10.2.[E 9.10.2.[E 1.4.1.2.[| 3] 3] A] |
| | GROSS AREA MEZZANINE A BUILDING HE | (м²): REA (м²): IGHT: | | | EXISTIN EXISTIN ABOVE | G: 0.00 G: 0.00 GRADE: 2 | NEW NEW BELC | /: 132.0 /: 0.00 OW GR/ | 85 ADE: 1 | | TOTAL: TOTAL: ABOVE | 132.85 0.00 GRADE (N | 1): 9.67 | 1.4 3.2 1.4 | .1.2.[A] .1.1.[B] .1.2.[A] / 3.2 .1 | .1.[B] | 1.4.1.2.[9.10.4.1 1.4.1.2.[| A] .[B] A] / 9.10.4.[B] |
| | HIGH BUILDIN NUMBER OF S BUILDING CL/ SPRINKLERED | HIGH BUILDING: NUMBER OF STREETS (FIRE ROUTES): BUILDING CLASSIFICATION: SPRINKLERED BUILDING: | | LIYES XIND 1 C - RESIDENTIAL OCCUPANCY INDT REQUIRED REQUIRED | | | | | | | | 3.2 3.2 3.2 3.2 3.2 3.2 | .6.(B) .2.10.(B) / 3.2 .2.2093.(B) .2.20-93.(B) .2.182122 | .5.[8] | 9.10.20.[B] 9.10.2.[B] 9.10.8.24.[B] 3.2.4.7.(4)[B] | | | |
| | | | | | | | | | | | | 5 3.2 3.2 3.2 3.2 3.2 | 3.2.4.1., 3.2.4.9., 3.2.4.15.[B] 3.2.5.12-14.[B] | | | | | |
| | STANDPIPE R FIRE ALARM S | EQUIRED: SYSTEM REQ | IUIRED: | | | REQUIRED REQUIRED PROVIDED | | EQUIRI EQUIRI INGLE | ED ED STAGE | | סשד | STAGE | X NONE | 3.2 | .5.8-11[B] .4.[B] | | 9.10.18. | [8] |
| | ADEQUATE FI | ONSTRUCTION: | IN: | | | BUSTIBLE BUSTIBLE PSULATED | | DN-CO DN-CO TIMBE | IMBUST IMBUST ER | | | | D MASS TIMBER | 3.2 3.2 3.1 | .2.2093.[B] .6.[B] | | 9.10.6.[E AND 3.1. |)], 3.1.5.[B], 4.7.[B] |
| | HEAVY TIMBER CONSTRUCTION: IMPORTANCE CATAGORY: SEISMIC CATEGORY: | | | COMBINATION ENCAPSULATED MASS TIMBER AND NON-COMBUSTIBLE X YES LOW LOW HUMAN OCCUPANCY POST-DISASTER SHEL NORMAL HIGH HIGH MINOR STORAGE BUILDING HAZARDOUS SUBSTAU | | | | | | SASTER SHELTER VE OR DUS SUBSTANCE | 3.1 R 4.1 T4. | 3.1.4.6-7.(B), 3.2.2.16.(B) 4.1.2.1.(3)(B), T4.1.2.1.(B) | | | | | | |
| | | | | DPDST-DISASTER SEISMIC CATEGOR SITE CLASS: SEISMIC DESIGN I | | | BLE 4. EQUIRI | 1.8.18, ED | , ITE | мз 6 то [Х | 22:] NOT REQ | UIRED | 4.1. T4. 4.1. | 4.1.8.4.(1)[B] T4.1.8.5B[B] | | 1.0.0.2.1 | | |
| | OCCUPANT LO | JAD BASED | DN: DWELLING | UNIT: | OCCUF C - RES | PANGY TYPE | 3 B | BASED | אם מ ואע אם | IT (| OCCUPAI 6 PERSO | NT LOAD (NS | PERSONS) | 3.1 | .17.[8] | | 9.9.1.3.[| 8] |
| | BARRIER FRE | E DESIGN: | | | YES | X ND | EXP | | TION: | | | | | 3.8 | .[B] | | 9.5.2.[8] | AND 3.8.[B] |
| | HAZARDOUS (SPECIAL PRO | E ENTRANCE SUBSTANCE ITECTION) | 19: 15: | | | R: N/A EXF X NO ATION: | LANAI | | | | | | | 3.3 | .1.2.[8] .1.2.[8] / 3.3.1 | .21.[8] | 9.10.1.3 | .(8) |
| | FIRE RESISTA | NCE RATING HORIZO STOREY FLOORS I | 3: JNTAL ASSE 'S BELOW G OVER BASE | MBLY RADE: MENT: | FIRE RE RATING | SISTANCE (H) N/A | SUPPO ASSEN | DRTING MBLY (N/A N/A | | NCD LIEU YES YES | | ILE NG? XN/A | | 3.2 3.2 3.2 3.2 3.2 3.3 | .2.2093.[B] .1.2.[B] .1.4.[B] .2.15.[B] .2.1.[B] | | 9.10.8.[E 9.10.11. | 3] AND [B] |
| | SPATIAL SEP | | FLC MEZZA I | DORS: NINE: ROOF: | | N/A N/A N/A | N N | N/A N/A N/A EW.COI | | YES YES YES | | X N/A X N/A X N/A | | | 3 (B) | | | |
| | WALL (PROPOSED BUILDING) | AREA OF EBF (M²) | L.D. (м) | | H DR H/L | PERMITTEI MAX. % DF DPENINGS | D PR D PR | ROPOS OPEN | ED % | F.I (HO | R.R. IURS) | | LISTEC DESIGN DESCRIPT |) OR 10N | .0.[0] | WALL CC NON ENCAP MASS | CONST. IMB., CONB., SULATED TIMBER | CLADDING COMB. CONST. NON-COMB. |
| | SOUTHEAST (FRONT) NORTHEAST (RIGHT) | 66.13 43.0 | 140.2± 8.534± | | - | 100.00 | | 16.0 0.01 | 0 | 2 | • | | | | | | IMB., IMB., | СОМВ., СОМВ., |
| THE GROSS AREA OF WINDOWS, THE GROSS AREA OF PERIPHERAL WALLS THAN 17% BUT NOT MORE THAN 22% THE BLES 3.1.1.2.A TO 3.1.1.2.C, TABLES | NDRTHWEST (REAR) SOUTHWEST | 80.59 43.0 | 13.41± 1.524± | | - | 100.00 | | 37.1 4.5 | 4 | 2 | - - | | | | | |]MB.,]MB., | СОМВ., Сомв., |
| JF HEAT TRANSFER OF THE FENESTRATION OR PERMITTED BY ARTICLE 3.1.1.4., OR PERMITTED BY ARTICLE 3.1.1.4., | PLUMBING FI RATID: MALE | XTURE REQL FEMALE = 5 AREA: | L JIREMENTS: 50:50 EXCE | -DF N PT AS | IEW CON NOTED (OCCUP/ | | | WC'S | WC'S | FD | BF WC'S | | | 3.7 3.8 GAL REQ ¹ 0 | 2.4.[8] 3.2.3.[8] UNIVE | | 9.10.14. 9.10.15. | B) OR (B) |
| OR PERMITTED BY ARTICLE 3.1.1.4., | | B | ASEMENT F MAIN F SECOND F | LOOR: LOOR: LOOR: | N/A N/A N/A | | | | | | | | | | | | | |
| INSULATION COMPONENT ONLY BLY COMPONENTS, FROM INTERIOR AIR R OR ABOVE GRADE WALL ASSEMBLY | ENERGY EFFI | CIENCY: | NON-RES SB-10 SB-10 SB-10 | DIDENT I PRES | TAL COM CRIPTIVI ORMANC CRIPTIVI | I IPLIANCE D E (DIV. 4) E (DIV. 2) E (DIV. 2) | IPTION: | | SIDEN1 SB-12 SB-12 SB-12 SB-12 | TIAL PRE PER OTH | COMPLIA SCRIPTIV FORMANI ER: ENEF | NCE OPTI E COMPLI CE COMPLI RGY STAR | I DN: ANGE PKG IANGE FOR NEW HOME: | 12. | 2.1.2.[B] | | 12.2.[8] | |
| L OR SLAB ASSEMBLY COMPONENTS AND ASSEMBLY, SLIDING GLASS DOOR | | | CLIMATIC FENESTF VERTICA | C ZONE RATION L (W+C | 2:5 : GRD!)) | 55 WALL AF 238.4M | REA (M2 Z | DE 2): GR | ENERG GREE ROSS W | UIDE DAYS /INDI | E FOR NE 5 BELOW OW AREA 42.45m2 | W HOUSE 18 C: 474 : (MZ) | 5 10 RATIO (%): 17.81% | SB- | 1 TABLE 2 | | 58-1 TAB | LE 2 |
|) R12 + 10ci IS PERMITTED TO BE USED OR E USED OR VICE VERSA THERE IS NO EF REQUIREMENT FOR WATER I-VALUES ARE EXPRESSED IN BTU/(H*FT ² *F) | SDUND TRAN DESIGN: ALTERNATIVE | SMISSION SOLUTIONS | SKYLIGH IS THERI MIN. STO | ITS E MORI C RATIN | E THAN T | N/A I DWELLINI | g unit | PER B | UILDIN | IG? | | | | 58- 5.8 1.2 | 3 5.8.1.2.(2)., .1.4.[8] & 5.8. .1.1.[A] AND 2 | 1.5(B) 2.1.(C) | 9.11.1.4 5.8.1.4.[1.2.1.1.[| .[8] 8] & 5.8.1.5[8] A] AND 2.1.[C] |
| TY X DIL EL X EARTH ENERGY 92% AFUE MENT X LOG/POST & BEAM E GRADE X DRAIN WATER HEAT PLIED FOAM IN ABOVE LL | | | | | | | | | | | | | | | | | | |

DRAWING LIST:



CONSTRUCTION NORTH

DATE:

TS NOV 26, 2024

TS NOV 29, 2024

REVISION:

ISSUED FOR PRELIMINARY REVIEW

ISSUED FOR PRELIMINARY REVIEW

A2 - ROOF PLAN & ELEVATIONS

- A3 ELEVATIONS
- A4 DETAILS & SECTIONS
- A5 GENERAL NOTES
- A6 GENERAL NOTES
- A7 GENERAL NOTES & DETAILS
- **A8 AIR BARRIER DETAILS**

GENERAL NOTES:

CONSTRUCTION.

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(Z)-

 $\langle w_1 \rangle$

💮 SD

AFF

BM

CO

C.L.

CONC.

C/W

DIA.

DJ

DW

EA

ENG

ERV E.O.

F.D. F.F.R.

HR

HWT

D.C.

DTA DTB

PL

SB

SD

SJ

ЪТ

TYP

W/

Т/П

U/S

W/O

WD

WIC

S.T.C.

RWL

SBG

HRV HVAC

NEW WALLS

- 1. BOTH THE CLIENT AND THE CONTRACTOR, INCLUDING ALL SUB-TRADES, SHALL REVIEW ALL DRAWINGS AND VERIFY ALL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CLIENT AND THE CONTRACTOR TO REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. 2. THESE DRAWINGS ARE TO BE READ AND NOT TO BE SCALED.
- 3. THE CONTRACTOR/OWNER IS RESPONSIBLE FOR NOTIFYING THE GOVERNING MUNICIPALITIES FOR ALL REQUIRED INSPECTIONS.
- 4. IF INSPECTIONS ARE REQUIRED BY THE ENGINEER NOTIFY THE ENGINEER'S OFFICE A HOURS IN ADVANCE FOR ANY OF THE FOLLOWING INSPECTIONS
- MINIMUM DF 24 THAT MAY APPLY: A. EXCAVATION - PRIOR TO POURING FOOTINGS
- B. FLOOR DURING POUR TO VERIFY CONCRETE & THICKNESS ALL CONCRETE POURS IN WHICH REINFORCING STEEL IS SPECIFIED.
- ROUGH FRAMING PRIDR TO CLOSE-IN. TRUSS FRAMING AND BRACING - PRIOR TO CLOSE-IN.

SYMBOLS LEGEND:

EXISTING WALLS TO BE REMOVED

BUILDING SECTION REFERENCE

- GRID REFERENCE

EXHAUST FAN VENTED TO EXTERIOR SEE HVAC PLAN FOR DETAILS

CONSTRUCTION ASSEMBLY REFERENCE

SEE 9.10.18.2 AND 9.10.19 FOR

SEE 9.32.3.9A FOR CARBON MONOXIDE ALARMS REQUIREMENTS

ABOVE FINISHED FLOOR

CARBON MONOXIDE DETECTOR

BEAM

CENTRE LINE

COMPLETE WITH

DOUBLE JOIST

SOLID BEARING

SINGLE JOIST

TRIPLE JOIST

TOP OF

TYPICAL

WITH

WOOD

UNDERSIDE

WALK-IN CLOSET

WITH OUT

SMOKE DETECTOR

SOLID BEARING GIRDER

SOUND TRANSMISSION CLASS

DISHWASHER

CONCRETE

DIAMETER

SMOKE DETECTOR REQUIREMENTS

EXISTING WALLS TO BE REMAIN

- ERECTION OF STRUCTURAL STEEL & WELDING PRIOR TO CLOSE-IN. 3 G. FINAL INSPECTION FOR CERTIFICATION - TO BE COMPLETED WITH BOTH OWNER &
- CONTRACTOR PRESENT. 5. ALL FOOTINGS TO BEAR DIRECTLY ONTO UNDISTURBED SOIL, THE SOIL BEARING CAPACITY HAS BEEN DESIGNED FOR 1500PSF (75kPa). THE SOIL BEARING CAPACITY IS TO BE CONFIRMED ON SITE BY A QUALIFIED SOILS TECHNICIAN PRIOR TO POURING FOOTINGS IF POOR SOILS CONDITIONS ARE ENCOUNTERED WHEN EXCAVATING. THE SOILS REPORT FOR THIS IS TO BE PROVIDED TO THE ENGINEERS OFFICE FOR REVIEW PRIOR TO POURING FOOTINGS IF REQUIRED.
- 6. CONTRACTOR/DWNER TO COMPLETE AND SUBMIT COPIES OF ALL CONCRETE TESTS AS PER C.S.A. A23.1. - ONE TEST REQUIRED PER 100M MINIMUM. IF PROJECT REQUIRED SUCH TEST. 7. ALL TRUSS DRAWINGS AND/OR ENGINEERED FLOOR DRAWINGS SHALL BE DESIGNED AND
- STAMPED BY A LICENSED PROFESSIONAL ENGINEER (PROVINCE OF ONTARIO). CONTRACTOR/DWNER TO SUBMIT TRUSS DRAWINGS AND/OR ENGINEERED FLOOR DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION OF TRUSSES OR ENGINEERED FLOOR. STAMPED TRUSS DRAWINGS AND/OR ENGINEERED FLOOR DRAWINGS ARE TO BE
- SUBMITTED TO THE ENGINEERS & C.B.O. OFFICES BY THE CONTRACTOR/OWNER PRIOR TO FRAMING INSPECTION. INSTALLED AS PER TRUSS MANUFACTURERS DESIG ALL TRUSS BRACING TO B SPECIFICATIONS AND AS PER ENGINEERS DESIGN & SPECIFICATIONS. 9. CONTRACTOR/OWNER TO SUBMIT SHOP DRAWINGS OF ALL PRECAST AND / OR
- PRE-ENGINEERED ELEMENTS FOR REVIEW. 9. THE DESIGN ON THESE DRAWINGS IS THE PROPERTY OF THE ENGINEER AND IS NOT TO BE USED OR COPIED WITHOUT CONSENT IN WRITING. 11. CHANGES OR SUBSTITUTIONS ARE NOT TO BE MADE WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. 12. CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF TEMPORARY BRACING DURING



MUNICIPALITY: MUNICIPALITY OF HASTINGS HIGHLANDS 33011 HWY 62N, P.O. BOX 130, MAYNOOTH ÓN, KOL 250 PHONE: 613-338-2811

CONSTRUCTED BY:

DESIGNED BY:



682 PEEL SREET WOODSTOCK ON, N4S 1L3 TEL: 1-519-879-6875 EMAIL: INFO@GIRARDENGINEERING.CA

APPROVED BY:



NOTE: THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER AND ARE NOT VALID UNLESS SEALED WITH RED INK. THESE DRAWINGS ARE NOT TO BE REPRODUGED UNLESS AUTHORIZED BY THE ENGINEER.

DESIGNED FOR:

DALE & TASHA SCHEERHORN 227 WEST DIAMOND LAKE ROAD HIGHLAND GROVE, ONTARIO, KOL ZAO TEL: 519-535-0658 EMAIL: DALEBHSERVICES@GMAIL.COM

PROPOSED COTTAGE

COVER SHEET

| GALE: | 1/4" = 1'- 0" | |
|---------------------|----------------------|--|
| ATE: | APRIL 18, 2025 | |
| RAWING BY: | T. STREATCH | |
| ESIGNED/CHECKED BY: | M. VASANTHA | |
| PROJECT N | 24-286 | |



EACH ENGINEERED ENERGY RECOVERY UNIT EACH WAY FLOOR DRAIN FIRE RESISTANCE RATING HOUR HEAT RECOVERY UNIT HEATING VENTILATION AIR CONDITIONING HOT WATER TANK ON CENTRE OPEN TO ABOVE OPEN TO BELOW POINT LOAD RAIN WATER LEADER



DESIGN LOADS - HIGHLAND GROVE, ONTARIO

GROUND SNOW LOAD SS 3.1KPA (64.74PSF) GR 0.40KPA (8.35PSF)

- WIND LOADS 1/50 0.32kPa (6.68psf) 1/10 FOR DEFLECTION 0.25kPa (5.22psf)
- SEISMIC DATA SA(0.2) 0.151

GENERAL NOTES:

- THESE GENERAL NOTES SHALL BE READ IN CONJUNCTION WITH THE LATEST REVISION OF DESIGN DRAWINGS AND SPECIFICATIONS PREPARED BY ALL ENGINEERING AND ARCHITECTURAL DISCIPLINES. ALL WORK INCLUDING DESIGN, PROJECT SITE CONDITIONS, DETAILING, SHOP DRAWINGS, CONSTRUCTION, MATERIALS, FOURPMENT AND SHORING SHALL CONFORM TO THE LATEST EDITIONS OF THE ONTARIO BUILDING CODE, LOCAL BY-LAWS, OCCUPATIONAL HEALTH AND SAFETY
- ACT, AND THE MINISTRY OF LABOUR REGULATIONS FOR CONSTRUCTION PROJECTS
- ALL ITEMS OR SYSTEMS THAT ARE VOLUNTARILY INSTALLED MUST MEET ALL REQUIREMENTS OF THE D.B.C 2024. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES ON THESE
- DRAWINGS TO THE ENGINEER AND/OR ARCHITECT PRIOR TO CONSTRUCTION
- ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH
- ALL ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR
- COORDINATING ALL SUBCONTRACTORS. OPERATIONS OF THE EXISTING FACILITY ARE NOT TO BE INTURRUPTED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE
- FOR ANY DAMAGE OR LOSS CAUSED BY CONSTRUCTION OPERATIONS. ALL SHOP DRAWINGS SHALL BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER (PROVINCE OF ONTARIO).
- THE CONTRACTOR SHALL VERIFY DIMENSIONS OF EXISTING
- STRUCTURES PRIOR TO THE COMMENCEMENT OF WORK. ALL STRUCTURAL ELEMENTS NOT OBTAINABLE THROUGH D.B.C. CHARTS TO BE ENGINEERED APPROVED (STRUCTURAL ENGINEER TO REVIEW, CALCULATE LOADS AND SIZES, STAMP, AND APPROVE).
- REFER TO PLANS, CROSS SECTIONS, AND DETAILS FOR ALL TYPICAL CONSTRUCTION DETAILS AND NOTES.
- ALL UNDERPINNING OF FOUNDATIONS TO BE CONSTRUCTED BELOW THE LEVEL OF THE FOOTINGS OF AN ADJACENT BUILDING AND IS WITHIN THE ANGLE OF REPOSE OF THE SOIL, AS DRAWN FROM THE BOTTOM OF THE FOOTINGS MUST BE DESIGNED BY A PROFESSIONAL ENGINEER AND DURING CONSTRUCTION A PROFESSIONAL ENGINEER IS TO REVIEW THE CONSTRUCTION PROCESS.

SOIL & FOUNDATION NOTES:

- ALLOWABLE SOIL BEARING CAPACTLY FOR THIS PROJECT HAS BEEN ASSUMED AT 1750 PSF (75 KPA). THE CONTRACTOR SHALL REPORT ANY UNSTABLE SOIL CONDITIONS TO THE ENGINEER. FOOTINGS SHALL NOT BE POURED UNTIL THE EXCAVATION HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER
- OR SOIL CONSULTANT. THE DIRECTION OF THE SOIL CONSULTANT SHALL BE STRICTLY
- FOLLOWED. ALL EXTERIOR FOOTINGS SHALL BE POURED ON UNDISTURBED NATIVE SOIL (OR APPROVED ENGINEERED FILL) AT A MINIMUM DEPTH OF 4¹-0 (1.20m) BELOW FINISHED GRADE AND AT THE GRADES SHOWN ON THE DRAWINGS.
- EXCAVATIONS SHALL CONFORM TO THE LATEST EDITIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND THE MINISTRY OF LABOUR REGULATIONS FOR CONSTRUCTION PROJECTS. WALLS TO BE BACKFILLED ON BOTH SIDES SHALL BE BACKFILLED EVENLY UNLESS SHORED ON ONE SIDE TO THE SATISFACTION OF THE ENGINEER. PIT WALLS SHALL NOT BE BACKFILLED UNLESS BRACED AT
- THE TOP TO THE SATISFACTION OF THE ENGINEER. BACKFILL SHALL BE APPROVED MATERIAL COMPACTED TO 95% S.P.D. UNLESS OTHERWISE INSTALLATION DETAILS FOR WATERSTOPS AT WALL/FOOTING INTERFACE
- AND IN VERTICAL JOINTS SHALL BE PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. WALLS AND PIERS SHALL BE CENTRED ON FOOTINGS WITHIN THE MIDDLE THIRD OF THE FOOTING.

CONCRETE AND REINFORCED

CONCRETE NOTES:

- ALL CONCRETE SHALL CONFORM TO CAN/CSA-A23.1., CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION" WITH A MAXIMUM AGGREGATE SIZE OF 3/4" (19MM), TYPE 10 NORMAL PORTLAND SPECIFICATION FOR AIR-ENTRAINING ADMIXTURES FOR CONCRETE, CEMENT (UNLESS OTHERWISE NOTED), AND A COMPRESSIVE STRENGTH
- AT 28 DAYS. SUPPLY AND PLACE CONCRETE AS FOLLOWS: FOOTINGS - 25 MPA, MAX. W/C RATIO OF 0.50, AIR CONTENT 6% \pm 1% FOUNDATION WALLS - 25 MPA, MAX. W/C RATIO OF 0.50, AIR CONTENT 6% \pm 1% PIERS - 25 MPA, MAX, W/C RATIO OF 0.45, AIR CONTENT 6% \pm 1% SLABS ON GRADE - 25 MPA, MAX. W/C RATIO OF 0.50, NO AIR CONTENT
- PIT WALLS & FLOORS (SUBJECT TO ACID ATTACK) - 32 MPA TYPE 50 CEMENT (OR EQUIVALENT)
- MAX. W/C RATIO DF 0.40, AIR CONTENT 6% \pm 1% SIDEWALKS, EXPOSED CURBS, AND OTHER CONCRETE
- 32 MPa, MAX. W/C RATIO OF 0.45, AIR CONTENT 6% \pm 1% ALL REINFORCEMENT SHALL CONFORM TO CSA G30.3, G30.5 & G30.18
- (LATEST EDITION) WITH A YIELD STRENGTH OF 400 MPA FOR DEFORMED BARS OR 360 MPA FOR WELDED WIRE MESH.
- MINIMUM CORNER REINFORCING SHALL BE 24"x24" (600mmx600mm
- MINIMUM COVER ON REINFORCING FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER SHALL BE 2" (50MM) FOR 20M OR LARGER BARS, 1 1/2" (38MM) FOR 15M OR SMALLER BARS, 3" (75MM) FOR REINFORCING IN FOOTINGS AND UNFORMED CONCRETE AGAINST EARTH, 1" (25MM) FOR SLABS AND WALLS NOT EXPOSED TO EARTH OR WEATHER, 1 1/2" (38MM) FOR REINFORCING IN BEAMS, AND 2" (50MM) FOR MAIN PIER
- CONDUITS OR PIPES IN SLABS SHALL NOT EXCEED 1/3 OF THE SLAB THICKNESS IN DIAMETER AND SHALL HAVE A MINIMUM COVER OF 1
- CONTROL JOINTS SHALL BE INSTALLED AS SHOWN OR AS NOTED ON DRAWINGS WITH A MAXIMUM SPACING OF 30-0" (9.00m) IN WALLS. MAXIMUM SLAB POUR LENGTH OF 100'-0" (30.00m). ALL SAW CUTS SHALL BE A MINIMUM OF 1/3 OF THE SLAB DEPTH AND SHALL BE CUT WITHIN 24 HOURS OF THE POUR.

STRUCTURAL STEEL NOTES:

- STEEL SHALL CONFORM TO CAN/CSA-S16-14 DESIGN OF STEEL STRUCTURES
- THE GENERAL REQUIREMENTS FOR STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA G40.23-13 / G40.21-13 FORWALLS - 25 MPA, STRUCTURAL STEEL QUALITY GRADES OF MATERIAL (UNLESS NOTED **DTHERWISE**
- HOLLOW STRUCTURAL STEEL SECTIONS 350W, CLASS 'C' STRUCTURAL PIPE - ASTM A53 (240MPA)
- **OTHER STRUCTURAL STEEL & MISCELLANEOUS METAL 350W** BOLTS, NUTS & WASHERS (STEEL TO STEEL) - ASTM A325 ANCHOR BOLTS - ASTM A307
- WELDS E49XX (490MPA)
- WELDING SHALL BE PERFORMED BY PERSONS CERTIFIED BY THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH MINIMUM THE LATEST CSA STANDARD FOR WELDING - CLAUSE 24.3 OF 516-01. SHOP DRAWINGS FOR ALL FABRICATED STEEL MEMBERS SHALL BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER (PROVINCE OF

WOOD NOTES:

STRUCTURAL WOOD ELEMENTS SHALL BE FABRICATED AND ERECTED IN 9.5.3.1 ACCORDANCE WITH CAN/CSA 086-01 "ENGINEERING DESIGN IN WOOD" AND THE WOOD DESIGN MANUAL (CANADIAN WOOD COUNCIL) LATEST EDITIONS.

ONTARIO) AND SUBMITTED TO THE ENGINEER PRIOR TO CONSTRUCTION.

- WOOD TRUSSES SHALL BE DESIGNED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER (PROVINCE OF ONTARIO). THE CONTRACTOR SHALL SUBMIT TRUSS SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- WOOD STUDS, JOISTS, NAILERS, BLOCKING, BUILT-UP BEAMS, AND COLUMNS SHALL BE S.P.F. No. 2 (CONSTRUCTION GRADE) OR BETTER -CONFORMING TO CAN/CSA-041-91 "SOFT WOOD LUMBER". GRADING SHALL CONFORM TO THE NATIONAL LUMBER GRADES AUTHORITY "STANDARD GRADING RULES FOR CANADIAN LUMBER". WOOD FRAME CONSTRUCTION SHALL CONFORM TO THE ONTARIO BUILDING CODE 2006 - SECTION 9.23.
- PLYWDDD SHEATHING SHALL CONFORM TO CSA STANDARD 0121-M1978 "DOUGLAS FIR PLYWOOD" AND 0151-M1978 "CANADIAN SOFT WOOD PLYWOOD".

- 5. WAFERBOARD AND D.S.B. SHALL CONFORM TO CSA STANDARD CAN3-0437.1-M85 WAFERBOARD AND STRANDBOARD.
- FASTENING DEVICES (NAILS) SHALL CONFORM TO CSA STANDARD B111-1974 "WIRE NAILS, SPIKES, AND STAPLES". TRUSS TIE DOWNS, JOIST HANGERS, ETC, SHALL CONFORM TO
- "ACCEPTANCE CRITERIA FOR JOIST HANGERS AND SIMILAR DEVICES" (THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS) AND SHALL BE A MINIMUM OF 20 GUAGE GALVANIZED STEEL.

<u> 3BC 2024 REFERNECES:</u>

9.1. -GENERAL 9.1.1.7. RADO

(1) IN ADDITION TO ALL OTHER REQUIREMENTS, A BUILDING IN THE FOLLOWING DESIGNATED AREAS SHALL BE DESIGNED AND CONSTRUCTED SO THAT THE ANNUAL AVERAGE CONCENTRATION OF RADON 222 DOES NOT EXCEED 200 BQ/M3 IF AIR AND THE ANNUAL AVERAGE CONCENTRATION OF THE SHORT LIVED DAUGHTERS OF RADON 222 DOES NOT EXCEED 0.02 WORKING LEVEL INSIDE THE BUILDING

(A) THE CITY OF ELLIOT LAKE IN THE TERRITORIAL DISTRICT OF ALGOMA, (B) THE TOWNSHIP OF FARADAY IN THE COUNTY OF HASTINGS, AND (C) THE GEOGRAPHIC TOWNSHIP OF HYMAN IN THE TERRITORIAL DISTRICT OF SUDBURY

9.1.1.9.- SITE ASSEMBLED AND FACTORY-BUILT BUILDINGS (1) EXCEPT AS PROVIDED IN SENTENCE (2) AND IN SENTENCES 12.2.1.2(1) AND (2), A MANUFACTURED BUILDING IS DEEMED TO COMPLY WITH THIS CODE IF IT IS DESIGNED AND CONSTRUCTED IN

COMPLIANCE WITH A) CSA Z240.2.1, STRUCTURAL REQUIREMENTS FOR MANUFACTURED HOMES', IF THE BUILDING IS CONSTRUCTED IN SECTION NOT WIDER

THAN 4.88M, DR (B) CSA A277, "PROCEDURE FOR CERTIFICATION OF PREFABRICATED BUILDINGS, MODULES, AND PANELS.

9.3.-MATERIALS, SYSTEMS AND EQUIPMENT 9.3.1.1. GENERAL

(1) EXCEPT AS PROVIDED IN SENTENCE (2) AND ARTICLES 9.3.1.6. AND 9.3.1.7. UNREINFORCED AND NOMINALLY REINFORCED CONCRETE SHALL BE DESIGNED, MIXED, PLACED, DURED AND TESTED IN ACCORDANCE WITH THE REQUIREMENT FOR "R" CLASS CONCRETE STATED IN SECTION 9 OF CSA AZ3.1, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION."

9.3.1.4. AGGREGATES (1) AGGREGATES SHALL

(A) CONSIST OF SAND, GRAVEL, CRUSHED ROCK, CRUSHED AIR-COOLED BLAST FURNACE SLAG, EXPANDED SHALE OR EXPANDED CLAY CONFORMING TO CSA A23.1, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION." AND (B) BE CLEAN, WELL-GRADED AND FREE OF INJURIOUS AMOUNT OF DRGANIC AND OTHER DELETERIOUS MATERIAL.

9.3.1.6.- COMPRESSIVE STRENGTH

(1) EXCEPT AS PROVIDED ELSEWHERE IS THIS PART, THE COMPRESSIVE STRENGTH OF UNREINFORCED CONCRETE AFTER 28 DAYS SHALL BE NOT LESS THAN.

(A) 32 MPA FOR GARAGE FLOORS, CARPORT FLOORS AND ALL EXTERIOR FLATWORK.

(B) 20 MPA FOR INTERIOR FLOOR OTHER THAN THOSE FOR GARAGE AND CARPORTS, AND (C) 15 MPA FOR ALL OTHER APPLICATIONS

(2) SITE-BATCH CONCRETE USED FOR GARAGE FLOORS. CARPORT FLOORS AND EXTERIOR FLATWORK SHALL HAVE AIR ENTRAINMENT OF

5-8%.

9.3.1.7. CONCRETE MIXES (1) FOR PRE-MIXED CONCRETE AND FOR THE SITE-BATCHED CONCRETE MIXES DESCRIBED IN TABLE 9.3.1.7., THE MAXIMUM RATID OF WATER TO CEMENTING MATERIALS MEASURED BY EIGHT SHALL NOT EXCEED (A) 0.45 FOR GARAGE FLOORS, CARPORT FLOORS AND ALL EXTERIOR FI ATWORK

(B) 0.65 FOR INTERIOR FLOORS OTHER THAN THOSE FOR GARAGE AND CARPORTS, AND (C) 0.70 FOR ALL OTHER APPLICATIONS (2) THE SIZE OF AGGREGATE IN UNREINFORCED SITE-BATCHED

CONCRETE MIXES REFERRED TO IN SENTENCE (1) SHALL NOT EXCEED, (A) 1/5 THE DISTANCE BETWEEN THE SIDES OF VERTICAL FORMS, OR (B) 1/3 THE THICKNESS OF FLATWORK

9.3.1.8. ADMIXTURES 1) ADMIXTURES SHALL CONFORM TO ASTM C260/C26M, "STANDARD

"STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE," AS APPLICABLE.

9.3.2. LUMBER AND WOOD PRODUCTS 9.3.2.1. GRADING MARKING

(1) LUMBER FOR JOISTS, RAFTERS, TRUSSES AND BEAMS AND FOR THE USES LISTED IN TABLE 9.3.2.1. SHALL BE IDENTIFIED BY A GRADE STAMP TO INDICATE ITS GRADE AS DETERMINED BY THE NLGA, STANDARD GRADING RULES FOR CANADIAN LUMBER." (2) EXCEPT FOR JOISTS, RAFTERS, TRUSSES AND BEAMS, VISUALLY GRADED LUMBER SHALL CONFORM TO THE GRADES IN TABLE 9.3.2.1.

9.3.2.6. LUMBER DIMENSIONS (1) LUMBER DIMENSIONS REFERRED TO IN THIS PART ARE ACTUAL DIMENSIONS DETERMINED IN CONFORMANCE WITH CSA 0141, SOFTWOOD LUMBER.

STRUCTURAL REQUIREMENTS

9411 GENERA 1) SUBJECT TO THE APPLICATION LIMITATIONS DEFINED ELSEWHERE IN THIS PART, STRUCTURAL MEMBERS AND THEIR CONNECTIONS

(A) CONFORM TO REQUIREMENTS PROVIDED ELSEWHERE IN THIS PART (B) BE DESIGNED ACCORDING TO GOOD ENGINEERING PRACTICE SUCH AS PROVIDED IN THE CWC 2014, "ENGINEERING GUIDE FOR WOOD FRAME CONSTRUCTION." OR

C) BE DESIGNED ACCORDING TO PART 4 USING THE LOADS AND DEFLECTION AND VIBRATION LIMITS SPECIFIED IN, (I) THIS PART OR (II) PART 4

9.5. DESIGN OF AREAS, SPACES AND DOORWAYS

9.5.2.1.- BARRIER-FREE DESIGN (1) EXCEPT AS PROVIDED IN SENTENCE (2) AND ARTICLE 3.8.1.1, EVERY BUILDING SHALL BE DESIGNED IN CONFORMANCE WITH SECTION 3.8 (2) THE REQUIREMENTS OF SECTION 3.8. NEED NOT BE PROVIDED FOR DETACHED HOUSES, SEMI-DETACHED HOUSES, HOUSES WITH A SECONDARY SUITE, DUPLEXES, TRIPLEXES, ROW HOUSES AND BOARDING OR ROOMING HOUSES WITH FEWER THAN EIGHT BOARDERS OR ROOMERS.

9.5.2.4. STUD WALL REINFORCEMENT (1) IF WOOD STUDS OR SHEET STEEL WALL STUDS ENCLOSE THE MAIN BATHROOM IN A DWELLING UNIT. REINFORCEMENT SHALL BE INSTALLED TO PERMIT THE FUTURE INSTALLATION OF THE FOLLOWING: A) FOR A WATER CLOSET, A GRAB BAR DESCRIBED IN CLAUSES 3.8.3.8.(3)(A) AND A GRAB BAR DESCRIBED IN CLAUSE 3.8.3.8.(3)(C). (B) FOR A SHOWER, A GRAB BAR DESCRIBED IN CLAUSE 3.8.3.13.(2)(G),

(C) FOR A BATHTUB, A GRAB BAR DESCRIBED IN CLAUSE 3.8.3.13(7)(E). 9.5.3. CEILING HEIGHTS

9.5.3.1. CEILING HEIGHTS OF ROOMS AND SPACES (1) EXCEPT AS PROVIDED IN SENTENCES (2) AND (3), THE CEILING HEIGHTS AND CLEAR HEIGHTS IN ROOMS OR SPACES IN RESIDENTIAL DCCUPANCIES AND LIVE/WORK UNITS SHALL CONFORM TO TABLE

(2) CEILING HEIGHTS IN SECONDARY SUITES SHALL BE NOT LESS **THAN 6-5**

(3) CLEAR HEIGHTS UNDER BEAMS AND DUCTS IN SECONDARY SUITES SHALL BE NOT LESS THAN 6-1". (4) AREAS IN ROOMS OR SPACES OVER WHICH CEILING HEIGHT AND

CLEAR HEIGHT ARE NOT LESS THAN THE MINIMUM SPECIFIED IN TABLE 9.5.3.1. OR SENTENCE (2) OR (3) SHALL BE CONTIGUOUS WITH THE ENTRY OR ENTRIES TO THOSE ROOM OR SPACES. 9.5.3A-F.2..- ROOM AREAS

ALL MIN. ROOM AREAS TO CONFORM TO THIS SECTION 9.5.5. DODRWAY SIZES

ALL DOORWAY SIZES TO CONFORM TO THIS SECTION INCLUDING TABLE 9.5.5.1.

9.7. WINDOWS, DOORS AND SKYLIGHTS 9.7.2.2.(9) WINDOWS AND SKYLIGHTS INSTALLED TO PROVIDED

REQUIRED NON-HEATING SEASON VENTILATION SHALL CONFORM TO ARTICLE 9.32.2.2. AND TABLE 9.32.2.2.(1)

9.7.2.3.(1) EXCEPT AS REQUIRED IN ARTICLE 9.9.10.1. AND SENTENCE (3), THE MINIMUM WINDOW GLASS AREAS FOR ROOM IN BUILDING OF RESIDENTIAL OCCUPANCY OR ROOMS THAT ARE USED FOR SLEEPING SHALL CONFORM TO TABLE 9.7.2.3

9.7.4.2. GENERAL

(1) MANUFACTURED AND PRE-ASSEMBLED WINDOWS, DOORS AND SKYLIGHTS AND THEIR INSTALLATION SHALL CONFORM TO (A) AAMA/WDMA/CSA 101/I.S.2/A440, "NORTH AMERICAN FENESTRATION STANDARD/SPECIFICATION FOR WINDOWS, DOORS, AND SKYLIGHTS" (HARMONIZED STANDARDS). (B) CSA A44051, CANADIAN SUPPLEMENT TO AAMA/WDMA/CAS

101/I.S.2/A440-17, NORTH AMERICAN FENESTRATION STANDARD/SPECIFICATION FOR WINDOWS, DOORS AND SKYLIGHTS." (C) THE REMAINDER OF THIS SUBSECTION, AND (D) THE APPLICABLE REQUIREMENTS IN SUBSECTION 9.7.6.

9.7.4.3. PERFORMANCE REQUIREMENTS (4) EXTERIOR WOOD DOORS SHALL CONFORM TO CAN/CSA-0132.2

SERIES, WOOD FLUSH DOORS," AND SHALL HAVE LEGIBLY INDICATED ON THEM (A) THE NAME OF THE MANUFACTURER

(B) THE STANDARD TO WHICH THEY WERE PRODUCED, AND (C) THE THEY ARE OF AN EXTERIOR TYPE

9.7.5.2. RESISTANCE TO FORCED ENTRY FOR DOOR 9.7.5.3. RESISTANCE TO FORCED ENTRY FOR WINDOWS -DOORS AND WINDOWS TO COMPLY WITH THESE ARTICLES

9.9.10.1. EGRESS WINDOWS OR DOORS FOR BEDROOMS

(1) EXCEPT WHERE A DOOR ON THE SAME FLOOR LEVEL AS THE

(A) IS OPENABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS,

(2) EXCEPT FOR BASEMENT AREAS, THE WINDOW REQUIRED IN

(3) WHERE A WINDOW REQUIRED IN SENTENCE (1) OPENS INTO A

(1) EXCEPT AS PROVIDED IN SENTENCE (2) AND ARTICLE 9.8.4.7.

STAIRS SERVING A SINGLE DWELLING UNIT OR HOUSE WITH A

(1) THE VERTICAL HEIGHT OF ANY FLIGHT OF STAIRS SHALL NOT

(1) EXCEPT AS PROVIDED IN ARTICLE 9.8.4.7. THE RISE, WHICH IS

MEASURED AS THE VERTICAL NOSING-TO-NOSING DISTANCE, SHALL

TABLE 9.8.4.1. RISE FOR RECTANGULAR TREADS, TAPERED TREADS

(1) EXCEPT AS PROVIDED IN SENTENCE (2) AND ARTICLES 9.8.4.6. AND

(A) IS NOT LESS THAN 6" AT THE NARROW END OF THE TREAD, AND

(B) COMPLIES WITH THE DIMENSIONS FOR RECTANGULAR TREADS

9.8.4.4. UNIFORMITY AND TOLERANCES FOR RISERS, RUNS AND

(1) EXCEPT AS PROVIDED IN SENTENCE (2), RISERS SHALL BE OF

(A) 3/16 BETWEEN ADJACENT TREADS OF LANDINGS, AND

(C) ADJACENT WINDERS TURN THROUGH THE SAME ANGLE.

STATED IN TABLE 9.8.4.1. WHEN MEASURED AT A POINT 12" FROM THE

UNIFORM HEIGHT IN ANY ONE FLIGHT WITH A MAXIMUM TOLERANCE OF

(B) 3/8" BETWEEN THE TALLEST AND SHORTEST RISERS IN A FLIGHT

(1) STAIRS WITHIN UNITS ARE PERMITTED TO CONTAIN WINDERS THAT

(A) THE WINDERS TURN THROUGH AN ANGLE OF NOT LESS THAN 90°

(B) INDIVIDUAL TREADS TURN THROUGH AN ANGLE OF NOT LESS THAN

(2) WHERE MORE THAN ONE SET OF WINDERS DECRIBED IN SENTENCE

(1) IS PROVIDED IN A SINGLE STAIRWAY BETWEEN ADJACENT FLOOR

LEVELS, SUCH WINDERS SHALL BE SEPARATED IN PLAN BY AT LEAST

(A) HANDRAILS ON BOTH SIDES, THE DUTER HANDRAIL BEING NOT

(I) ARE A MINIMUM OF 7 1/2" DEEP AT A POINT 12" FROM THE

(2) SPIRAL STAIRS CONFORMING TO SENTENCE (1) ARE NOT PERMITTED

(3) EXCEPT AS PERMITTED BY SENTENCE (2), SPIRAL STAIRS SHALL

(1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO

(A) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING

(1) EXCEPT AS PROVIDED IN SENTENCE (2) RAMPS SHALL NOT BE LESS

(2) RAMPS SERVING A SINGLE DWELLING UNIT OR A HOUSE WITH

SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL NOT

(C) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,

(E) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN

TO BE USED AS THE ONLY MEANS OF EGRESS WHERE THEY SERVE NOT

(II) HAVE A CONSISTENT ANGLE AND UNIFORM DIMENSIONS, AND

(B) A CLEAR WIDTH NOT LESS THAN 26" BETWEEN HANDRAILS,

CENTER LINE OF THE HANDRAILS AT THE NARROWER EDGE,

(C) RISERS THAT ARE NOT MORE THAN 9 1/2" HIGH,

(III) TRUN IN THE SAME DIRECTION, AND

(E) NOT LESS THAN 6-7 CLEAR HEIGHT.

(2) OPEN RISERS ARE PERMITTED IN

UNIT OR A HOUSE WITH A SECONDARY SUITE,

(D) STAIRS THAT SERVE SERVICE ROOMS, AND

CENTER LINE OF THE HANDRAIL AT THE NARROW END OF THE TREAD.

AND WINDERS AND RUN FOR RECTANGULAR TREADS

MAX. RUN =14" FOR RECTANGULAR TREADS

MIN. RUN =10" FOR RECTANGULAR TREADS

9.8.4.7., TAPERED TREADS SHALL HAVE A RUN THAT

MAX. RISE =7 7/8" FOR ALL STEPS

MIN. RISE =5" FOR ALL STEPS

9.8.4.3. DIMENSIONS OF TAPERED TREADS

CONVERGE TO A CENTER POINT PROVIDED

30[°] DR NOT MORE THAN 45°, AND

9.8.4.7. SPIRAL STAIRS

MORE THAN 3 PERSONS

NOT SERVE AS AN EXIT.

9.8.4.9- OPEN RISERS

(B) FIRE ESCAPE STAIRS,

STORAGE GARAGES.

9.8.5.2. RAMP WIDTH

LESS THAN 2'-10" WIDE.

THAN 3-7 1/2 WIDE.

OPEN RISERS.

(D) TREAD THAT

(1) SPIRAL STAIRS SHALL HAVE

LESS THAN MIN. 3'-6" HIGH,

REQUIRED EXIT STAIRS AND PUBLIC STAIRS SERVING BUILDING OF

RESIDENTIAL OCCUPANCY SHALL HAVE A WIDTH OF NOT LESS THAN

(2) EXIT STAIRS SERVING A SINGLE DWELLING UNIT OR A HOUSE WITH

A SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL HAVE

SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL NOT BE

(4) THE CLEAR HEIGHT OVER STAIRS THAT ARE LOCATED UNDER BEAMS

WINDOW WELL, A CLEARANCE OF NOT LESS THAN 21 1/2"SHALL BE

(1) EVERY WINDOW WELL SHALL BE DRAINED TO THE FOOTING LEVEL OR

LEVE CONTANING A BEDROOM IN A SUITE SHALL BE PROVIDED WITH AT

(B) PROVIDES AN INDIVIDUAL. UNDESTRUCTED OPEN PORTION HAVE A

MINIMUM AREA OF 3.8 SO.FT. WITH NO DIMENSION LESS THAN 15", AND

(C) MAINTAINS THE REQUIRED OPENING DESCRIBED IN CLAUSE (B)

9.9.10. EGRSS FROM BEDROOMS

LEAST ONE OUTSIDE WINDOW THAT

PROVIDED IN FRONT OF THE WINDOW.

9.8.- STAIRS, RAMPS, HANDRAILS & GUARDS

9.14.6. SURFACE DRAINAGE

OTHER SUITABLE LOCATION.

A WIDTH OF NOT LESS THAN 2'-10".

9.8.2.2. HEIGHT OVER STAIRS

9.8.3. STAIR CONFIGURATIONS

9.5.4. STEP DIMENSIONS

CONFORM TO TABLE 9.8.4.1.

9.8.3.3. MAXIMUM HEIGHT OF STAIRS

9.8.4.1. DIMENSIONS FOR RISERS

9.8.2.1. STAIR WIDTH

2-11 1/2

LESS THAN 6-5

EXCEED 12-1

TREADS

9.8.4.6. WINDERS

FLOOR

WITHOUT THE NEED FOR ADDITIONAL SUPPORT

9.8.5.3. HEIGHT OVER RAMPS (1) EXCEPT AS PERMITTED BY SENTENCE (2), THE CLEAR HEIGHT OVER RAMPS SHALL BE NOT LESS THAN 6'9" (2) THE CLEAR HEIGHT OVER RAMPS SERVING A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL BE NOT LESS THAN 6'-5". 9.8.4.5. RAMP SLOPE (1)THE SLOPE OF RAMPS SHALL BE NOTE MORE THAN (A) 1 IN 10 FOR EXTERIOR RAMPS,

(B) 1 IN 10 FOR INTERIOR RAMPS SERVING RESIDENTIAL OCCUPANCIES, (C) 1 IN 6 FOR INDUSTRIAL OCCUPANCIES, AND (D) 1 IN 8 FOR ALL OTHER OCCUPANCIES

9.8.6. -LANDINGS 9.8.6.2. REQUIRED LANDINGS

(1) EXCEPT AS PROVIDED IN SENTENCES (2) TO (4) AND SENTENCE 9.9.6.6.(2), A LANDING SHALL BE PROVIDED (A) AT THE TOP AND BOTTOM OF EACH FLIGHT OF INTERIOR AND EXTERIOR STAIRS, INCLUDING SITARS IN GARAGES, (B) AT THE TOP AND BOTTOM OF EVERY RAMP WITH A SLOPE GREATER THAN 1 IN 50, AND (C) WHERE A DOORWAY OPENS ONTO A STAIR OR RAMP

9.8.6.3. DIMENSIONS OF LANDINGS

(1) EXCEPT AS PROVIDED IN SENTENCES (2) TO (7), LANDINGS SHALL BE AT LEAST AS WIDE AND AS LONG AS THE WIDTH OF THE STAIR OR RAMP IN WHICH THEY OCCUR.

9.8.6.4. HEIGHT OVER LANDINGS

(1) EXCEPT AS PERMITTED BY SENTENCE (2), THE CLEAR HEIGHT OVER LANDINGS SHALL BE NOT LESS THAN 6'-9". (2) THE CLEAR HEIGHT OVER LANDINGS SERVING A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL BE NOT LESS THAN 6'-5".

9.8.7 HANDRAIL BEDROOM PROVIDES DIRECT ACCESS TO THE EXTERIOR, EVERY FLOOR

(1) EXCEPT AS PROVIDED IN SENTENCES (2) TO (4), HANDRAILS SHALL 9.9.3 DIMENSIONS OF MEAN OF EGRESS BE INSTALLED ON STAIRS AND RAMPS IN CONFORMANCE WITH TABLE 9.8.7.1

TABLE 9.8.7.1. NUMBER OF SIDES OF STAIR OR RAMP REQUIRED TO HAVE A HANDRAIL WITHIN A DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE-1 HANDRAIL FOR STAIRS, 1 HANDRAIL FOR RAMPS < 3'-7", 2 HANDRAILS FOR RAMPS >3'-7" (3) HANDRAILS ARE NOT REQUIRED FOR STAIRS AND RAMPS SERVING A A SECONDARY SUITE INCLUDING THEIR COMMON SPACES. SINGLE DWELLING UNIT, WHERE

SENTENCE (1) SHALL HAVE A MAXIMUM SILL HEIGHT OF 3'-3" ABOVE THE (A) INTERIOR STAIRS MAX 2 RISERS (B) EXTERIOR STAIRS HAVE NOT MORE THAN 3 RISERS

(C) RAMPS RISE NOT MORE THAN 1-4 (4) ONLY ONE HANDRAIL IS REQUIRED ON EXTERIOR STAIRS HAVING MORE THAN 3 RISERS PROVIDED SUCH STAIRS SERVE NOT MORE THAN ONE DWELLING UNIT OR HOUSE WITH A SECONDARY SUITE. (5) EXCEPT FOR STAIRS WITH WINDERS, WHERE A FLIGHT OF STAIRS WITHIN A DWELLING UNIT CONSISTS OF TAPERED TREADS. OR A MIX OF (2) THE CLEAR HEIGHT IN EXITS AND ACCESS TO EXITS IN A STORAGE TAPERED TREADS AND RECTANGULAR TREADS, ONE HANDRAIL SHALL

9.8.7.2. CONTINUITY OF HANDRAILS (1) EXCEPT AS PROVIDED IN SENTENCE (3), REQUIRED HANDRAILS SHALL BE CONTINUOUSLY GRASPABLE THROUGHOUT THE LENGTH OF

BE INSTALLED ALONG THE NARROW END OF THE TREADS.

(A) RAMPS, AND (B) FLIGHTS OF STAIRS, FROM THE BOTTOM RISER TO TOP RISER. (3) FOR STAIR OR RAMPS SERVING A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES,

(3) EXCEPT AS PROVIDED IN ARTICLE 9.8.4.7. THE CLEAR HEIGHT OVER 9.8.7.4. HEIGHT OF HANDRAILS

INSTALLED ON THE BOTTOM TREAD

(2) EXCEPT AS PROVIDED IN SENTENCE (3), CLAUSE 3.8.3.4.(1)(E), AND SENTENCE 9.8.4.7.(1), REQUIRED HANDRAILS SHALL BE 2'-10" TO 3'-6"

A HANDRAIL IS PERMITTED TO START FROM A NEWEL POST OR VOLUTE

AND DUCTING IN SECONDARY SUITE SHALL NOT BE LESS THAN 6-1". 9.8.7.5. ERGONOMIC DESIGN

(1) THE CLEARANCE BETWEEN A HANDRAIL AND ANY SURFACE BEHIND IT SHALL BE NOT LESS THAN (A) 2 1/4["], IF THE SURFACE BEHIND THE HANDRAIL IS ROUGH OR ABRASIVE, OR

(B) 2". IN ALL OTHER CASES (2) ALL HANDRAILS SHALL BE CONSTRUCTED SO AS TO BE CONTINUALLY GRASPABLE ALONG THEIR ENTIRE LENGTH WITH NO

OBSTRUCTION ON OR ABOVE THEM TO BREAK A HANDHOLD. 9.8.7.6 PROJECTIONS INTO STAIRS AND RAMPS

(1) HANDRAILS AND PROJECTIONS BELOW HANDRAILS, INCLUDING HANDRAIL SUPPORTS AND STAIR STRINGERS, SHALL NOT PROJECT

MORE THAN 4" INTO THE REQUIRED WIDTH OF A STAIR OR RAMP. 9.8.8. GUARDS

9.8.8.1. REQUIRED GUARDS

EDGE AT THE TOP OF A FLIGHT, EVERY SURFACE TO WHICH ACCESS IS PROVIDED, INCLUDING BUT NOT LIMITED TO FLIGHTS OF STEPS AND RAMPS, EXTERIOR LANDINGS, PORCHES, BALCONIES, MEZZANINES, GALLERIES AND RAISED WALKWAYS, SHALL BE PROTECTED BY A GUARD ON EACH SIDE THAT IS NOT PROTECTED BY A WALL FOR THE LENGTH WHERE THE DIFFERENCE IN ELEVATION IS MORE THAN 2'-0" BETWEEN THE WALKING SURFACE AND THE ADJACENT SURFACE WITHIN 3'-11". (3) DOORS IN BUILDING OF RESIDENTIAL OCCUPANCY, WHERE THE FINISHED FLOOR ON F ONE SIDE OF THE DOOR IS MORE THAN 2'-0"ABOVE THE FLOOR OTHER CONSTRUCTED SURFACE OR GROUND LEVEL ON TEH OTHER SIDE OF THE DOOR, SHALL BE PROTECTED BY (A) GUARD, OR

(B) A MECHANISM CAPABLE OF CONTROLLING THE FREE SWINGING OF THE DOOR SO AS TO LIMIT ANY GLEAR UNOBSTRUCTED OPENING NOT MORE THAN 4" MEASURED EITHER VERTICALLY OR HORIZONTALLY. (4) EXCEPT AS PROVIDED IN SENTENCE (5), OPENABLE WINDOWS IN BUILDINGS OF RESIDENTIAL OCCUPANCY SHALL BE PROTECTED BY (A) A GUARD, DR

(B) A MECHANISM THAT CAN ONLY BE RELEASED WITH THE USE OF TOOLS OR SPECIAL KNOWLEDGE TO CONTROL THE FREE SWINGING OR SLIDING OPERATION OF THE OPENABLE PART OF THE WINDOW SO AS TO STAIR RISER AND THE LEADING EDGE OF A DOOR DURING ITS SWING, LIMIT ANY CLEAR UNOBSTRUCTED OPENING TO NOT MORE THAN 4 MEASURED EITHER VERTICALLY OR HORIZONTALLY. (5) WINDOWS NEED NOT BE PROTECTED IN ACCORDANCE WITH

SENTENCE (4), WHERE THE BOTTOM EDGE OF THE OPENABLE PORTION OF THE WINDOW IS LOCATED (A) MORE THAN 2¹-11 1/2" ABOVE FINISHED FLOOR, OR

(B) LESS THAN 5-11" ABOVE THE FLOOR OR GROUND ON THE OTHER SIDE OF THE WINDOW. (6) EXCEPT AS PROVIDED IN SENTENCE (7), GLAZING INSTALLED OVER STAIRS, RAMPS AND LANDINGS THAT EXTENDS TO LESS THAN 3-6 ABOVE THE SURFACE OF THE TREADS, RAMP OR LANDING SHALL BE (A) PROTECTED BY GUARDS IN ACCORDANCE WITH THIS SUBSECTION,

(B) NON-OPENABLE AND DESIGNED TO WITHSTAND SPECIFIC LATERAL LOADS FROM GUARDS IN ARTICLE 4.1.5.14. (7) IN DWELLING UNITS, GLAZING INSTALLED OVER STAIRS, RAMPS AND LANDINGS THAT EXTENDS TO LESS THAN 2-11 1/2" ABOVE THE SURFACE OF THE TREADS, RAMP OR LANDING SHALL BE

(A) PROTECTED BY GUARDS IN ACCORDANCE WITH THIS SUBSECTION OR (B) NON-OPENABLE AND DESIGNED TO WITHSTAND THE SPECIFIED LATERAL LOADS FOR GUARDS AS PROVIDED IN ARTICLE 4.1.5.14.

9.8.8.3. HEIGHT OF GUARDS (1) EXCEPT AS PROVIDED IN SENTENCES (2) TO (3.1) ALL GUARDS SHALL BE NOT LESS THAN 3'-6" HIGH. (2) ALL GUARDS WITHIN DWELLING UNITS OR WITHIN HOUSES WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL BE NOT LESS THAN 2-11 1/2

(3) EXTERIOR GUARDS SERVING NOT MORE THAN ONE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL BE NOT LESS THAN 2-11 1/2" HEIGHT WHERE THE WALKING SURFACE SERVED BY THE GUARD IS NOT MORE THAN 5-11 ABOVE THE FINISHED GROUND LEVEL.

9.8.8.5. OPENINGS IN GUARDS (1) EXCEPT AS PERMITTED IN SENTENCES (3) AND (4), OPENINGS THROUGH GUARDS SHALL BE OF A SIZE THAT PREVENTS THE PASSAGE OF A SPHERICAL OBJECT HAVING A DIAMETER OF 4". (2) EXCEPT FOR GUARDS THAT SERVE INDUSTRIAL OCCUPANCIES, THE TRIANGULAR OPENINGS FORMED BY STAIR RISERS. STAIR TREADS AND THE BOTTOM ELEMENT OF A REQUIRED GUARD SHALL BE OF A SIZE THAT PREVENTS THE PASSAGE OF A 6[®]Ø SPHERE.

9.8.8.6. GUARDS DESIGNED NOT TO FACILITATE CLIMBING (1) GUARDS REQUIRED BY ARTICLE 9.8.8.1. EXCEPT THOSE IN

INDUSTRIAL OCCUPANCIES AND WHERE IT CAN BE SHOWN THAT THE LOCATION AND SIZE OF OPENINGS TO NOT REPRESENT A HAZARD, SHALL A DWELLING UNIT SHALL BE PROVIDED WITH A SECOND AI BE DESIGNED SO THAT NO MEMBER, ATTACHMENT OR OPENING LOCATED MEANS OF GRESS WHERE AN EGRESS DOOR FROMT HE D BETWEEN 5 1/2" AND 2-11 1/2" ABOVE THE FLOOR OR WALKING SURFACE OPENING ONTO PROTECTED BY THE GUARD WILL FACILITATE CLIMBING. 9.8.8.7. GLASS IN GUARDS

(1) GLASS IN GUARDS SHALL BE

(A) SAFETY GLASS OF LAMINATED OR TEMPERED TYPE CONFORMING TO CAN/CGSB-12.1. "SAFETY GLAZING." OR (B) WIRED GLASS CONFORMING TO CAN/CGSB-12.11-M, WIRED SAFETY GLASS.

9.8.9. CONSTRUCTION 9.8.9.2. EXTERIOR CONCRETE STAIRS

(1) EXTERIOR CONCRETE STAIR WITH MORE THAN 2 RISERS AND 2 TREADS SHALL BE (A) SUPPORTED ON UNIT MASONRY OR CONCRETE WALLS OR PIERS NOT LESS THAN 6" IN CROSS-SECTION, OR (B) CANTILEVERED FROM THE MAIN FOUNDATION WALL.

9.8.9.3. EXTERIOR WOOD STEPS

(1) EXTERIOR WOOD STEPS SHALL NOT BE IN DIRECT CONTACT WITH THE GROUND UNLESS SUITABLY TREATED WITH A WOOD PRESERVATIVE. 9.9. MEANS OF FORES

9.9.1.3. OCCUPANT LOAD

(1) THE OCCUPANT LOAD OF A FLOOR AREA OR PART OF A FLOOR AREA SHALL BE BASED ON (A) TWD PERSONS PER SLEEPING ROOM OR SLEEPING AREA IN A DWELLING UNIT OR SUITE. AND

(B) FOR OCCUPANCIES OTHER THAN AS DESCRIBED IN CLAUSE (A), THE NUMBER PERSONS. (I) FOR WHICH THE AREA IS DESIGNED, OR

(II) DETERMINED FOR TABLE 3.1.17.1.

9.9.3.1. APPLICATION

(1) THIS SUBSECTION APPLIES TO EVERY MEANS OF EGRESS EXCEPT (A) EXISTS THAT SERVE NOT MORE THAN ONE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES, (B) ACCESS TO EXITS WITHIN DWELLING UNITS AND WITHIN HOUSES WITH

9.9.3.3. WIDTH OF CORRIDORS (1) THE WIDTH OF EVERY PUBLIC CORRIDOR, CORRIDOR USED BY THE PUBLIC, AND EXIT CORRIDOR SHALL BE NOT LESS THAN 3'-7".

9.9.3.4. CLEAR HEIGHT

(1) EXCEPT FOR STAIRWAYS, DOORWAYS AND STORAGE GARAGES, THE MINIMUM CLEAR HEIGHT IN EXITS AND ACCESS TO EXITS SHALL BE 6-11" GARAGE SHALL BE NOT LESS THAN 6'-7"

9.9.4.1. APPLICATION (1) EXCEPT AS PROVIDED IN ARTICLES 9.9.4.4. AND 9.9.4.6., THIS SUBSECTION APPLIES TO THE FIRE PROTECTION OF ALL EXITS EXCEPT

EXITS SERVING NOT MORE THAN ONE DWELLING UNIT.

9.9.4.4. OPENINGS NEAR UNENCLOSED EXTERIOR EXIT STAIRS AND RAMPS

(1) WHERE AN ENCLOSED EXTERIOR EXIT STAIR OR RAMP PROVIDES THE ONLY MEANS OF EGRESS FROM A SUITE, AND IS EXPOSED TO FIRE FROM OPENINGS IN THE EXTERIOR WALLS OF ANOTHER FIRE COMPARTMENT, OR 9.10.8.3. FIRE-RESISTANCE RATINGS FOR WALLS, COLUMN ANOTHER DWELLING UNIT, ANCILLARY SPACE OR COMMON SPACE IN A HOUSE WITH A SECONDARY SUITE, THE OPENINGS IN THE EXTERIOR WALLS OF THE BUILDING SHALL BE PROTECTED WITH WIRED GLASS IN FIXED STEEL FRAMES OR GLASS BLOCK CONFORMING TO 9.10.13.5. AND 9.10.13.7. WHEN THE OPENINGS IN THE EXTERIOR WALLS OF THE BUILDING ARE WITHIN 9'-10" HORIZONTALLY AND LESS THAN 32'-10" BELOW OR LESS THAN 16'-5" ABOVE THE EXIT STAIR OR RAMP.

9.9.4.6. OPENING NEAR EXIT DOORS (1) THIS ARTICLE APPLIES TO

(A) EXIT DOOR SERVING OTHER THAN AN INDIVIDUAL UNIT, AND (B) EXIT DOORS SERVING AN INDIVIDUAL UNIT WHERE THERE IS NO SECOND AND SEPARATE EXIT FROM THE DWELLING UNIT. (2) WHERE AN EXTERIOR EXIT DOOR DESCRIBED IN SENTENCE (1) IN ONE (1) TABLE 9.10.8.1. DOES NOT APPLY TO FIRE COMPARTMENT IS WITHIN 9-10" HORIZONTALLY OF AN UNPROTECTED (A) A DWELLING UNIT THAT HAS NO OTHER DWELLING UNIT ARTMENT AND THE EXTERIOR WALLS OF BELOW IT, **DPENING IN ANOTHER FIRE COMI** THESE FIRE COMPARTMENTS INTERSECT AT AN ANGLE OF LESS THAN 135° (B) HOUSES WITH A SECONDARY SUITE, WHERE THE FLOD THE OPENING SHALL BE PROTECTED WITH WIRED GLASS IN FIXED STEEL PROTECTED ON THE UNDERSIDE BY A CONTINUOUS SMOKI FRAMES OR GLASS BLOCK CONFORMING TO ARTICLES 9.10.13.5 AND 9.10.13.7 OR WITH A RATED CLOSURE CONFORMING TO TABLE 9.10.13.1 (C) A DWELLING UNIT THAT IS NOT ABOVE OR BELOW ANOT WITH RESPECT TO THE RATING OF THE FIRE SEPARATION BETWEEN THE OCCUPANCY. TWO COMPARTMENTS.

(1) EXCEPT AS PROVIDED IN SENTENCE (2) AND EXCEPT AT THE LEADING 9.9.5.9. ANCILLARY ROOMS

(1) EXCEPT IN HOUSES WITH A SECONDARY SUITE, ANCILLARY ROOMS SUCH AS STORAGE ROOMS, WASHROOMS, TOILET ROOMS, LAUNDRY ROOMS AND SERVICE ROOMS SHALL NOT OPEN DIRECTLY INTO AN EXIT.

9.9.6. DOORS IN MEANS OF EGRESS 9.9.6.3. CLEAR OPENING WIDTH AT DOORWAYS

(1) EXCEPT AS PROVIDED IN SENTENCE (4), THE CLEAR OPENING WIDTH OF DOORWAYS SHALL COMPLY WITH SENTENCE (2) AT (A) EXIT DOORS, AND

(B) DOORS THAT OPEN INTO OR ARE LOCATED WITHIN A PUBLIC CORRIDOR ASSEMBLY REQUIRED TO BE A FIRE SEPARATION SHALL BI OR OTHER FACILITY THAT PROVIDES ACCESS TO EXIT FROM A SUITE. (3) IN DOORWAYS DESCRIBED IN SENTENCE (1) THAT HAVE A

MULTIPLE-LEAF DOORS INSTALLED, (A) NO ACTIVE LEAF SHALL BE LESS THAN Z¹-8" WIDE WHERE ONLY ONE LEAF IS ACTIVE. AND (B) NO SINGLE LEAF SHALL BE LESS THAN 2^LO" WIDE WHERE TWO LEAVES

9.9.6.6. NEARNESS OF DOORS TO STAIRS

(1) EXCEPT AS PROVIDED IN SENTENCE (2), THE DISTANCE BETWEEN A EXCEPT FOR DOORS SERVING A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE, SHALL BE NOT LESS THAN 12".

9.9.7.3. DEAD-END CORRIDORS

ARE ACTIVE.

(2) DEAD-END PUBLIC CORRIDORS IN C & D OCCUPANCIES SHALL CONTAIN ONLY SUITE DOOR OPENINS ARRANGED SO THAT NOT MORE THAN 2 SUCH DOOR HAVE TO BE PASSED REACH THE NEAREST EIXT. (3) MAX. 0.69 SQ.FT. AREA OF WIRED GLASS IN DOORS REQUIRED BY SENTENCE (2).

9.9.9. EGRESS FROM DWELLING UNITS

9.9.9.1. TRAVEL LIMIT TO EXITS OR EGRESS DOORS (1) DWELLING UNIT CONTAINING MORE THAN 1 STOREY SHALL HAVE EXITS OR EGRESS DOOR LOCATED SO THAT IT SHALL NOT BE NECESSARY TO TRAVEL UP OR DOWN MORE THAN 1 STOREY TO REACH A LEVEL SERVED BY (A) AN EGRESS DOOR TO A PUBLIC CORRIDOR, ENCLOSED EXIT STAIR

OR EXTERIOR PASSAGEWAY, OR (B) AN EXIT DOORWAY NOT MORE THAN 1.5M ABOVE ADJACENT GROUND (2) WHERE A DWELLING UNIT IS NOT LOCATED ABOVE OR BELOW

ANDTHER SUITE, THE TRAVEL LIMIT FROM A FLOOR LEVEL IN THE DWELLING UNIT TO A AN EXISTING OR EGRESS DOOR MAY EXCEED 1 STOREY WHERE THE FLOOR LEVEL IS SERVED BY AN OPENABLE WINDOW OR DOOR (A) PROVIDING AN UNOBSTRUCTED OPENING OF NOT LESS THAN 1M IN

HEIGHT AND 0.55M IN WIDTH, AND (B) LOCATED SO THAT THE SILL IS NOT MORE THAN

(I) 1M ABOVE THE FLOOR, AND (II) 7M ABOVE ADJACENT GROUND LEVEL.

(3) THE TRAVEL LIMIT FROM A FLOOR LEVEL IN A DWELLING UNIT TO AN EXIT OR EGRESS DOOR MAY EXCEED 1 STOREY WHERE THE FLOOR LEVEL HAS DIRECT ACCESS TO A BALCONY

9.9.9.2. TWO SEPARATE EXITS

(1) EXCEPT AS PROVIDED IN SENTENCE 9.9.7.3.(1) AND EXCEPT FOR DWELLING UNITS IN A HOUSE WITH A SECONDARY SUITE. WHERE AN EGRESS DOOR FROM A SWELLING UNIT OPENS ONTO A PUBLIC CORRIDOR OR EXTERIOR PASSAGEWAY IT SHALL BE POSSIBLE FORM THE LOCATION WHERE THE EGRESS DOOR OPEN ONTO THE CORRIDOR OR EXTERIOR PASSAGEWAY TO GO IN OPPOSITE DIRECTIONS TO 2 SEPARATE EXITS UNLESS THE DWELLING UNIT HAS A SECOND AND SEPARATE MEANS OF EGRESS.

(A) AN EXIT STAIRWAY SERVING MORE THAN ONE SUITE,

(C) AN EXTERIOR PASSAGEWAY

(B) IS SERVED BY A SINGLE EXIT STAIRWAY OR RAMP, AND (C) IS LOCATED MORE THAN 4-11" ABOVE ADJACENT GROU

9.10. FIRE PROTECTION

ARCHES

9.10.8.10. NON-APPLICATION TO HOUSES

9.10.9. FIRE SEPARATIONS AND SMOKE-TIGHT BARRIERS B ROOMS AND SPACES WITHIN BUILDINGS

BOTH SIDES OF WALLS, AND (B) THE UNDERSIDE OF FLOOR-CEILING

FRAMING ARE PROTECTED BY A CONTINUOUS SMOKE-TIGHT BARRIER OF BUILDING FACE THAT ENCLOSES AN ATTIC OR ROOF SPACE SHALL BE

SUBSECTION 9.10.8.

NOT LESS THAN 5/8" THICK TYPE X GYPSUM BOARD INSTALLED ON (A) CONSTRUCTED IN CONFORMANCE WITH TABLE 9.10.14.5. AND

FRAMING

| | 9.9.9.3 SHARED EGRESS FAGILITES (1) EXCEPT FRO DWELLING UNITS IN A HOUSE WITH A SECONDARY SUITE, A DWELLING UNIT SHALL BE PROVIDED WITH A SECOND AND SPEARATE MEANS OF GRESS WHERE AN EGRESS DOOR FROMT HE DWELLING UNIT OPENING ONTO (A) AN EXIT STAIRWAY SERVING MORE THAN ONE SUITE, (B) A PUBLIC CORRIDOR (I) SERVING MORE THAN ONE SUITE, AND | 9.10.9.18. SEPARATION BETWEEN DWELLING UNITS AND GARAGES (4) A STORAGE GARAGE ATTACHED TO A BUILDING OF RESIDENTIAL OCCUPANCY SHALL HAVE AN AIR BARRIER SYSTEM BETWEEN THE GARAGE AND REMAIN OF BUILDING TO PROVIDE AN EFFECTIVE BARRIER TO GAS AND EXHAUST FUMES, AND (B) EVERY DOOR BETWEEN THE GARAGE AND REMAINDER OF THE BUILDING SHALL HAVE A DOOR COMPLETE WITH WEATHER STRIPPING AND A SELF CLOSER CONFORMING TO 9.10.13.15. | |
|------------------------------------|---|---|--|
| | (II) SERVED BY A SINGLE EXIT, (C) AN EXTERIOR PASSAGEWAY (I) SERVING MORE THAN ONE SUITE, (II) SERVED BY A SINGLE EXIT STAIRWAY OR RAMP, AND (III) MORE THAN 4¹-11ⁿ ABOVE ADJACENT GROUND LEVEL. (2) WHERE A DWELLING UNIT IS LOCATED ABOVE ANOTHER DWELLING | 9.10.10.4 LOCATIONS OF FUEL-FIRED APPLIANCES (1) EXCEPT AS PROVIDED IN SENTENCES (2) AND (3) AND ARTICLES 9.10.10.5., FUEL-FIRED APPLIANCES SHALL BE LOCATED IN A SERVICE ROOM SEPARATED FROM THE REMAINDER OF THE BUILDING BY A FIRE SEPARATION HAVING NOT LESS THAN A 1H FIRE-RESISTANCE RATING. | CONSTRUCTION NORTH |
| | UNIT OR COMMON SPACE IN A HOUSE WITH A SECONDARY SUITE THE UPPER DWELLING UNIT SHALL BE PROVIDED WITH A SECOND AND SEPARATE MEANS OF EGRESS WHERE AN EGRESS DOOR FROM THE DWELLING UNIT OPENS ONTO AN EXTERIOR PASSAGEWAY THAT (A) HAS A FLOOR ASSEMBLY WITH A FIRE-RESISTANCE RATING LESS THAN 45 MIN | (2) EXCEPT AS REQUIRED IN THE APPLIANCE INSTALLATION STANDARDS REFERENCED IN SENTENCES 6.2.1.5.(1) AND 9.33.5.3.(1), FUEL-FIRED SPACE-HEATING APPLIANCES, SPACE-CODLING APPLIANCES AND SERVICE WATER HEATERS NEED NOT BE SEPARATED FROM THE REMAINDER OF THE BUILDING AS REQUIRED IN SENTENCE (1). (A) WHERE THE APPLIANCES SERVE | |
| | (B) IS SERVED BY A SINGLE EXIT STAIRWAY OR RAMP, AND (C) IS LOCATED MORE THAN 4 ¹ -11 ¹ ABOVE ADJACENT GROUND LEVEL. | (I) NOT MORE THAN ONE ROOM OR SUITE, OR (II) A BUILDING WITH A BUILDING AREA OF NOT MORE THAN 4,305 SQ.FT. AND A BUILDING HEIGHT OF NOT MORE THAN 2 STOREY. DR | |
| | 9.9.10.1. EGRESS WINDOWS OR DOORS FOR BEDROOMS (1)EXCEPT WHERE A DOOR ON THE SAME FLOOR LEVEL AS THE BEDROOM PROVIDE DIRECT ACCESS TO THE EXTERIOR, EVERY FLOOR LEVEL CONTAINING A BEDROOM IN A SUITE SHALL BE PROVIDED WITH AT LEASE ONE OUTSIDE WINDOW THAT (A) IS OPENABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS, (B) PROVIDES AN INDIVIDUAL, UNOBSTRUCTED OPEN PORTION HAVING A MIN. AREA OF 0.35m2 WTIH NO DIMENSION LESS THAN 1'-3", AND (C) MAINTAINS THE REQUIRED OPENING DESCRIBED IN CLAUSE (B) WITHOUT THE NEED EFOR ADDITIONAL SUBPORT | (B) WHERE THE APPLIANCES (I) SERVE A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES, AND (II) ARE LOCATED IN A SERVICE ROOM WHERE BOTH SIDES OF ANY WALL ASSEMBLIES AND THE UNDERSIDE OF ANY FLOOR-CEILING FRAMING SEPARATING THIS ROOM FROM BOTH DWELLING UNITS OR THEIR COMMON SPACES ARE PROTECTED BY A CONTINUOUS SMOKE-TIGHT BARRIER CONSISTING OF NOT LESS THAN 5/8" TYPE 'X' GYPSUM BOARD. | |
| | (2) EXCEPT FOR BASEMENT AREAS, THE WINDOW REQUIRED IN SENTENCE (1) SHALL HAVE A MAX. SILL HEIGHT OF 3¹-4¹ ABOVE THE FLOOR (3) WHERE A WINDOW REQUIRED IN SENTENCE (1) OPENS INTO A WINDOW WELL, A CLEARANCE OF NOT LESS THAN 1¹-10¹ SHALL BE PROVIDED IN FRONT OF THE WINDOW. (4) WHERE THE SASH OF A WINDOW REFERRED TO IN SENTENCE (3) SWINGS TOWARDS THE WINDOW WELL, THE OPERATION OF THE SASH SHALL NOT REDUCE THE CLEARANCE IN A MANNER THAT WOULD RESTRICT AN ESCAPE IN AN EMERGENCY. | 9.10.11.2 . FIREWALLS NOT REQUIRED (1) A PARTY WALL ON A PROPERTY LINE OF A BUILDING OF RESIDENTIAL OCCUPANCY NEED NO BE CONSTRUCTED AS A FIREWALL, PROVIDED IT IS CONSTRUCTED AS A FIRE SEPARATION HAVING NOT LESS THAN A 1H FIRE-RESISTANCE RATING, WHERE THE PARTY WALL SEPARATES (A) TWO DWELLING UNITS WHERE THERE IS NO DWELLING UNIT ABOVE ANOTHER DWELLING UNIT, (B) A DWELLING UNIT AND A HOUSE WITH A SECONDARY SUITS INCLUDING | |
| | (5) WHERE A PROTECTIVE ENCLOSURE IS INSTALLED OVER THE WINDOW WELL REFERRED TO IN SENTENCE (3), THE ENGLOSURE SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF KEYS, TOOLS OR | THEIR COMMON SPACES, OR (C) TWO HOUSES WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES. (3) THE WALL DESCRIPTED IN SENTENCE (1) SHALL PROVIDE CONTINUOUS | |
| | (6) WHEN SLIDING WINDOWS ARE USED, THE MINIMUM DIMENSION DESCRIBED IN SENTENCE (1) SHALLAPPLY TO TEH OPENABLE PORTION OF THE WINDOW | PROTECTION FROM THE TOP OF THE FOOTINGS TO THE UNDERSIDE OF THE ROOF DECK (4) ANY SPACE BETWEEN THE TOP OF THE WALL DESCRIBED IN SENTENCE (1) THE ROOF DECK SHALL BE TIGHTLY FILLED WITH MINERAL WOOL OR | |
| Normal Association and Association | 9.10. FIRE FROTEDITION 9.10.1.1. SLOPED ROOFS (1) FOR THE PURPOSES OF THIS SECTION, ROOF WITH SLOPES OF 60° OR MORE TO THE HORIZONTAL AND THAT ARE ADJACENT TO A ROOM OR SPACE INTENDED FOR OCCUPANCY SHALL BE CONSIDERED AS A WALL. | NONCOMBUSTIBLE MATERIAL 9.10.11.4. FIREWALLS IN DETACHED GARAGE (1)WHERE A GARAGE IS DETACHED FROM A DWELLING UNIT BUT ATTACHED | |
| | 9.10.8. FIRE-RESISTANCE AND COMBUSTIBILITY IN RELATION TO OCCUPANCY, HEIGHT AND SUPPORTED ELEMENTS 9.10.8.1. FIRE-RESISTANCE RATINGS FOR FLOOR AND ROOFS (1) EXCEPT AS OTHERWISE PROVIDED IN THIS SUBSECTION, THE FIRE-RESISTANCE RATING OF FLOOR AND ROOFS SHALL CONFORM TO TABLE 9.10.8.1. (SEE 9.10.2. FOR MIXED OCCUPANCIES AND 9.10.21 | 9.10.12.3. EXTERIOR WALLS MEETING AT AN ANGLE (1) EXCEPT AS PROVIDED IN ARTICLE 9.9.4.5., WHERE EXTERIOR WALLS OF A BUILDING MEET AT AN EXTERNAL ANGLE OF 135° OR LESS, THE HORIZONTAL DISTANCE FROM AN UNPROTECTED OPENING IN ONE EXTERIOR WALL TO AN UNPROTECTED OPENING IN THE OTHER EXTERIOR WALL SHALL BE NOT LESS THAN 3'-11', WHERE THESE OPENINGS ARE | |
| | 9.10.8.3. FIRE-RESISTANCE RATINGS FOR WALLS, COLUMNS AND ARCHES (1) EXCEPT AS OTHERWISE PROVIDED IN THIS SUBSECTION, ALL LOADBEARING WALLS, COLUMNS AND ARCHES IN THE STOREY IMMEDIATELY BELOW A FLOOR OR ROOF ASSEMBLY SHALL HAVE A | (A) IN DIFFERENT FIRE COMPARTMENTS, OR (B) IN DIFFERENT DWELLING UNITS, ANGILLARY SPACES OR COMMON SPACES IN A HOUSE WITH A SECONDARY SUITE. (2) EXCEPT AS PROVIDED IN SENTENCE (3), THE EXTERIOR WALL OF EACH FIRE COMPARTMENT REFERRED TO IN SENTENCE (1) WITHIN THE 3'-11" DISTANCE SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THAT REQUIRED FOR THE INTERIOR VERTICAL FIRE SEPARATION BETWEEN THE | 33011 HWY 62N, P.O. BOX 13O, MAYNOOTH ON, KOL 2SO РНОМЕ: 613-338-2811 |
| | TRE-RESISTANCE RATING OF NOT LESS THAN THAT REQUIRED FOR THE SUPPORTED FLOOR OR ROOF ASSEMBLY. (2) LIGHT-FRAME WALLS, COLUMNS ARCHES AND BEAMS AS WELL AS LOADBEARING STEEL ELEMENTS THAT SUPPORT FLOORS BETWEEN DWELLING UNITS IN A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL BE PROTECTED BY NOT LESS THAN 5/8" THICK TYPE-X GYPSUM BOARD. | COMPARTMENT AND THE REMINDER OF THE BUILDING. (3) WHERE INTERIOR WALLS BETWEEN DWELLING UNITS, ANCILLARY SPACES OR COMMON SPACES IN A HOUSE WITH A SECONDARY SUITE ARE NOT CONSTRUCTED AS A FIRE SEPARATIONS, THE EXTERIOR WALL OF EACH DWELLING UNIT, ANCILLARY SPACE OR COMMON SPACE REFERRED TO IN SENTENCE (1) WITHIN THE 3 ¹ -11 [°] DISTANCE SHALL BE FINISHED ON THE INTERIOR WITH NOT LESS THAN 5/8 [°] THICK TYPE X GYPSUM BOARD. | CONSTRUCTED BY: |
| | 3.10.8.10. NON-APPLICATION TO HOUSES (1) TABLE 9.10.8.1. DOES NOT APPLY TO (A) A DWELLING UNIT THAT HAS NO OTHER DWELLING UNIT ABOVE OR BELOW IT, | 9.10.12.4. PROTECTION OF SOFFITS (1) THIS ARTICLE APPLIES TO THE PORTION OF ANY SOFFIT ENCLOSING A PROJECTION THAT IS (A) LESS THAN 8-2 1/2" VERTICALLY ABOVE A WINDOW OR A DOOR, AND | |
| 0 | .B) HOUSES WITH A SECONDARY SUITE, WHERE THE FLOOR FRAMING IS PROTECTED ON THE UNDERSIDE BY A CONTINUOUS SMOKE-TIGHT BARRIER OF NOT LESS THAN 5/B" THICK TYPE 'X' GYPSUM BOARD, OR (C) A DWELLING UNIT THAT IS NOT ABOVE OR BELOW ANOTHER MAJOR OCCUPANCY. | (A) LESS THAN B²2 1/2 VERTICALL'I ABOVE A WINDOW OR A DOOR. (B) LESS THAN 3¹-11[°] FROM EITHER SIDE OF THE WINDOW OR DOOR. (2) EXCEPT AS PROVIDED IN SENTENCES (4) AND (5), THE CONSTRUCTION DESCRIBED IN SENTENCE (1) SHALL HAVE NO UNPROTECTED OPENINGS AND SHALL BE PROTECTED IN ACCORDANGE WITH SENTENCE (3), WHERE THE SOFFIT ENCLOSES (A) A COMMON ATTIC OR ROOF SPACE THAT SPANS MORE THAN 2 SUITES | DESIGNED BY: |
| | ROOMS AND SPACES WITHIN BUILDINGS 9.10.9.1. APPLICATION (1) THIS SUBSECTION APPLIES TO | OF RESIDENTIAL OCCUPANCY AND PROJECTS BEYOND THE EXTERIOR WALL OF THE BUILDING. (B) A FLOOR SPACE WHERE AN UPPER STOREY PROJECTS BEYOND THE EXTERIOR WALL OF A LOWER STOREY AND | girard |
| | A) FIRE SEPARATIONS REQUIRED BETWEEN ROOM AND SPACES IN BUILDINGS, AND (B) SMOKE-TIGHT BARRIERS REQUIRED IN HOUSES WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES. 9.10.9.2. CONTINUOUS BARRIER | (I) A FIRE SEPARATION IS REQUIRED AT THE FLOOR BETWEEN THE TWO, OR (II) THE FLOOR SEPARATES DWELLING UNITS FROM EACH OTHER OR A DWELLING UNIT FROM AN ANCILLARY SPACE OR A COMMON SPACE IN A HOUSE WITH SECONDARY SUITE, OR | ENGINEERING 2478153 ONTARIO INC. 682 PEEL SREET |
| ł | 1) EXCEPT AS PERMITTED IN ARTICLE 9.10.9.3., A WALL OR FLOOR ASSEMBLY REQUIRED TO BE A FIRE SEPARATION SHALL BE CONSTRUCTED AS A CONTINUOUS BARRIER AGAINST THE SPREAD OF FIRE AND RETARD THE PASSAGE OF SMOKE. (2) EXCEPT AS PERMITTED IN ARTICLE 9.10.9.3., A WALL OR FLOOR ASSEMBLY REQUIRED TO BE AS SMOKE-TIGHT BARRIER SHALL BE | (C) A FLOOR SPACE WHERE AN UPPER STOREY PROJECTS BEYOND THE EXTERIOR WALL OF A LOWER STOREY, AND THE PROJECTION IS CONTINUOUS ACROSS (I) A VERTIGAL FIRE SEPARATION SEPARATING TWO SUITES, OR (II) A WALL SEPARATING A DWELLING UNITS FROM EACHOTHER OR A DWELLING UNIT FROM AN ANCILLARY SPACE OR A COMMON SPACE IN A HOUSE WITH A SECONDARY SUITE. | WOODSTOCK ON, N4S 1L3 Tel: 1-519-879-6875 Email: info@girardengineering.ca Approved by: |
| | SUNSTRUCTED AS A CONTINUOUS BARRIER AGAINST THE SPREAD OF SMOKE. (3) EXCEPT AS PROVIDED IN SENTENCE (6), THE CONTINUITY OF A FIRE SEPARATION WHERE IT ABUTS ANOTHER FIRE SEPARATION OR SMOKE-TIGHT BARRIER, A FLOOR, A CEILING OR A FLOOR SHALL BE MAINTAINED BY A FIRESTOP THAT, WHEN SUBJECTED TO THE FIRE TEST METHOD IN CAN/ULC-S115, "STANDARD METHOD OF FIRE TESTS OF FIRESTOP SYSTEMS," HAS AN FT RATING NOT LESS THAN THE FIRE-RESISTANCE RATING FOR THE ABUTTING FIRE SEPARATION. | 9.10.13. DOORS, DAMPERS AND OTHER CLOSURES IN FIRE SEPARATIONS 9.10.13.1. CLOSURES (1) EXCEPT AS PROVIDED IN ARTICLE 9.10.13.2., OPENINGS IN REQUIRED FIRE SEPARATIONS SHALL BE PROTECTED WITH A CLOSURE CONFORMING TO TABLE 9.10.13.1. AND SHALL BE INSTALLED IN CONFORMANCE WITH NFPA BD, 'STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES,' UNLESS OTHERWISE SPECIFIED IN THIS PART. | M. K. VASANTHA |
| | J.10.9.9. PENETRATIONS BY RACEWAYS, SPRINKLERS AND FIRE JAMPERS JFIRE DAMPERS ARE PERMITTED TO PENETRATE A FIRE SEPARATION OR A MEMBRANE FORMING PART OF AN ASSEMBLY REQUIRED TO HAVE A FIRE-RESISTANCE RATING WITHOUT HAVING TO MEET THE FIRESTOP REQUIREMENT OF SENTENCE 9.10.9.6.(1), PROVIDED THE FIRE DAMPER | 9.10.14. SPATIAL SEPARATION BETWEEN BUILDINGS 9.10.14.1. APPLICATION (1) THIS SUBSECTION APPLIES TO BUILDINGS OTHER THAN THOSE TO WHICH SUBSECTION 9.10.15. APPLIES. (2) THIS SUBSECTION DOES NOT APPLY TO A HOUSE WITH A SECONDARY SUITE. | NOTE: THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER AND ARE NOT VALID UNLESS SEALED WITH RED INK. THESE DRAWINGS ARE NOT TO BE REPRODUCED UNLESS AUTHORIZED BY THE ENGINEER. |
| | S A) INSTALLED IN CONFORMANCE WITH NFPA 80, "STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVE," (B) SPECIFICALLY DESIGNED WITH A FIRESTOP, OR (C) PROVIDED IN CONFORMANCE WITH SENTENCE 9.10.5.1.(3) | 9.10.14.2. AREA AND LOCATION OF EXPOSING BUILDING FACE (1) THE AREA OF AN EXPOSING BUILDING FACE SHALL BE (A) TAKEN AS THE EXTERIOR WALL AREA FACING IN ONE DIRECTION ON ANY SIDE OF A BUILDING, AND (B) CALCULATED AS, | |
| | 9.10.9.13 SEPARATION OF RESIDENTIAL OCCUPANCIES 1) EXCEPT AS PROVIDED IN SENTENCES (2) AND (4), RESIDENTIAL 3CCUPANCIES SHALL BE SEPARATED FROM ALL OTHER MAJOR 3CCUPANCIES BY A FIRE SEPARATION HAVING A FIRE-RESISTANCE RATING OF NOT LESS THAN 1H | (i) THE IDTAL AREA MEASORED FROM THE FINISHED GROUND LEVEL TO THE UPPERMOST CEILING, OR (ii) THE AREA FOR EACH FIRE COMPARTMENT, WHERE A BUILDING IS DIVIDED INTO FIRE COMPARTMENTS BY A FIRE SEPARATIONS WITH FIRE-RESISTANCE RATINGS NOT LESS THAN 45 MIN. | 227 WEST DIAMOND LAKE ROAD HIGHLAND GROVE, ONTARIO, KOL 2AO |
| | 9.10.9.15. SEPARATION OF SUITES 1) EXCEPT AS REQUIRED IN ARTICLE 9.10.9.16 AND PERMITTED BY SENTENCE (2), EACH SUITE IN OTHER THAN BUSINESS AND PERSONAL SERVICES OCCUPANCIES SHALL BE SEPARATED FROM ADJOINING SUITES BY A FIRE SEPARATION HAVING A FIRE-RESISTANCE RATING OF NOT LESS THAN 45 MIN | 9.10.14.4. OPENINGS IN EXPOSING BUILDING FACE (1) EXCEPT AS PROVIDED IN SENTENCES (6) TO (10) AND SENTENCES 9.10.14.6.(1), THE MAXIMUM AGGREGATE AREA OF UNPROTECTED OPENINGS IN AN EXPOSING BUILDING FACE SHALL (A) CONFORM TO TALBE 9.10.14.4., (B) CONFORM TO SUBSECTION 3.2.3., OR | EMAIL: DALEBHSERVICES@GMAIL.COM |
| | 9.10.9.16 SEPARATION OF RESIDENTIAL SUITES (1) EXCEPT AS PROVIDED IN SENTENCES (2) AND (3) AND ARTICLE | (C) WHERE THE LIMITING DISTANCE IS NOT LESS THAN 3'-11", BE EQUAL TO OR LESS THAN (I) THE LIMITING DISTANCE SQUARED, FOR RESIDENTIAL DECUBANCIES, BUSINESS AND REPROVAL REPVICES | PROPOSED COTTAGE |
| | 7.13.21.2., SUITES IN RESIDENTIAL DEGUPANCIES SHALL BE SEPARATED FROM ADJACENT ROOMS AND SUITES BY A FIRE SEPARATION HAVING A FIRE-RESISTANCE RATING OF NOT LESS THAN 45 MIN. (3) EXCEPT AS PROVIDED IN SENTENCES (4) AND (5), DWELLING UNITS THAT CONTAIN 2 OR MORE STOREY INCLUDING BASEMENTS SHALL BE SEPARATED FROM THE REMAINDER OF THE BIILIDING BY A FIRE | (II) HALF THE LIMITING DISTANCE SQUARED, FOR MERCANTILE OCCUPANCIES AND LOW-HAZARD INDUSTRIAL OCCUPANCIES AND MEDIUM-HAZARD INDUSTRIAL OCCUPANCIES. | GENERAL NOTES |
| | 3EPARATION HAVING A FIRE-RESISTANCE RATING OF NOT LESS THAN 1H (4) WALLS AND FLOOR-CEILING FRAMING IN A HOUSE WITH SECONDARY SUITE THAT SEPARATE DWELLING UNITS FROM EACHOTHER OR DWELLING | 9.10.14.5. CONSTRUCTION OF EXPOSING BUILDING FACE AND WALLS ABOVE EXPOSING BUILDING FACE | SCALE: 1/4" = 1'-0" DATE: APRIL 14, 2025 DRAWING NO: |
| | JNITS FRUM ANGILLARY SPACES AND GUMMON SPACES NEED NOT COMPLY WITH SENTENCE (1), WHERE THE WALLS AND FLOOR-CEILING | BUILDING FACE AND ANY EXTERIOR WALL LOCATED ABOVE AN EXPOSING | DRAWING BY: T. STREATCH _ |

24-286

DRAWING BY: T. STREATCH DESIGNED/CHECKED BY: M. VASANTHA PROJECT NO:

9.10.14.5.

(12) WHERE ROOF SOFFITS PROJECT TO LESS THAN 3-11" FROM THE PROPERTY LINE, THE CENTRE LINE OF A PUBLIC WAY, OR AN IMAGINARY LINE BETWEEN TWO BUILDINGS OR FIRE COMPARTMENTS ON THE SAME **PROPERTY, THEY SHALL** (A) HAVE NO OPENINGS, AND

(B) BE PROTECTED BY

- (I) NOT LESS THAN D.38MM THICK SHEET STEEL, (II) NOT LESS THAN 1/2" THICK GYPSUM SOFFIT BOARD OR GYPSUM SOUND. CEILING BOARD INSTALLED ACCORDING TO CSA A82.31-M, "GYPSUM BOARD APPLICATION. (IV) NOT LESS THAN 11MM THICK PLYWOOD
- (V) NOT LESS THAN 7/16" THICK OSB, OR WAFERBOARD, OR (VI) NOT LESS THAN 7/16" THICK LUMBER

9.10.15. SPATIAL SEPARATION BETWEEN HOUSES

9.10.15.1. APPLICATION

1) THIS SUBSECTION APPLIES TO A) BUILDINGS THAT CONTAIN ONLY DWELLING UNITS AND HAVE NO DWELLING UNIT ABOVE ANOTHER DWELLING UNIT, AND (B) HOUSES WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES. (EG. SINGLE, SEMI-DETACHED AND STANDARD ROWHOUSES)

9.10.15.2. AREA AND LOCATION OF EXPOSING BUILDING FACE

1) THE AREA OF AN EXPOSING BUILDING FACE SHALL BE (A) TAKEN AS THE EXTERIOR WALL AREA FACING IN ONE DIRECTION ON ANY SIDE OF A BUILDING, AND (B) CALCULATED AS.

- (I) THE TOTAL AREA MEASURED FROM THE FINISHED GROUND LEVEL TO THE UPPERMOST CEILING, (II) THE AREA FOR EACH FIRE COMPARTMENT, WHERE A BUILDING IS SECTION 9.12. WITH FIRE-RESISTANCE RATINGS NOT LESS THAN 45 MIN., OR -EXCAVATION SHALL EXTEND TO UNDISTURBED SOIL. (III) WHERE TABLE 9.10.15.4. IS USED TO DETERMINE THE MAXIMUM -ALL ENGINEERED FILL TO BE DESIGNED AND APPROVED BY A CERTIFIED AGGREGATE AREA OF GLAZED OPENINGS, THE AREA OF ANY SOIL CONSULTANT. NUMBER OF INDIVIDUAL PORTIONS OF THE EXPOSING BUILDING FACE

9.10.15.4. GLAZED OPENINGS IN EXPOSING BUILDING FACE I) EXCEPT AS PROVIDED IN SENTENCES (6) TO (9), THE MAXIMUM AREA OF GLAZED OPENING IN AN EXPOSING BUILDING FACE SHALL (A) CONFORM TO TABLE 9.10.15.4.,

INPROTECTED OPENINGS. OR (C) WHERE THE LIMITING DISTANCE IS NOT LESS THAN 3-11", BE EQUAL TO OR LESS THAN THE LIMITING DISTANCE SQUARED.

9.10.15.5. CONSTRUCTION OF EXPOSING BUILDING FACE OF HOUSES 1) EXCEPT AS PROVIDED IN SENTENCES (1.1),(2), (4) AND (6), EACH XPOSING BUILDING FACE AND ANY EXTERIOR WALL LOCATED ABOVE AN EXPOSING BUILDING FACE THAT ENCLOSES AN ATTIC OR ROOF SPACE SHALL BE CONSTRUCTED IN CONFORMANCE WITH SUBSECTION 9.10.B., (A) FOR THE EXPOSING BUILDING FACE AS A WHOLE, OR (B) FOR ANY NUMBER OF SEPARATE PORTIONS OF THE EXPOSING BUILDING FACE.

9.10.16. FIRE BLOCKS

9.10.16.1. REQUIRED FIRE BLOCKS IN CONCEALED SPACES) CONCEALED SPACES IN INTERIOR WALLS, CEILINGS, FLOORS AND CRAWL SPACES SHALL BE SEPARATED BY FIRE BLOCKS FROM CONCEALED SPACES IN EXTERIOR WALLS AND ATTIC OR ROOF SPACES. 5) WHERE NOT SPRINKLERED, CONCEALED SPACED OF COMBUSTIBLE CONSTRUCTION CREATED BY A CEILING, ROOF OR UNDCCUPIED ATTIC SPACE SHALL BE SEPARATED BY FIRE BLOCKS INTO COMPARTMENTS A) NOTE MORE THAN 196-10" IN GREATEST DIMENSIONS, AND (B) WHERE SUCH SPACE CONTAINS EXPOSED CONSTRUCTION MATERIALS FOR SOIL GAS CONTROL." HAVING A SURFACE FLAME-SPREAD RATING GREATER THAN 25, NOT MORE HAN 3,229 SQ.FT. IN AREA. (6) NO DIMENSIONS OF THE COMPARTMENT DESCRIBED IN CLAUSE (5)(B) BUILDING IS NOT REQUIRED FOR GARAGES AND UNENCLOSED SHALL EXCEED 65'-7".

9.10.16.3. FIRE BLOCK MATERIALS

1) EXCEPT AS PERMITTED IN SENTENCES (2) AND (3), FIRE BLOCKS PREVENT THE PASSAGE OF FALMES FOR NOT LESS THAN 15 MIN. WHEN SUBJECTED TO THE STANDARD FIRE EXPOSURE IN CAN/ULC/S101, STANDARD METHOD OF FIRE ENDURANCE TESTS OF BUILDING CONSTRUCTION AND MATERIALS.

(2) FIRE BLOCKS ARE DEEMED TO COMPLY WITH SENTENCE (1) IF THEY ARE CONSTRUCTED OF NOT LESS THAN, (A) 1/6" (0.388MM) SHEET STEEL,

B) 1/2" (12.7MM) GYPSUM BOARD,

(C) 1/2" (12.5MM) PLYWOOD, OSB OR WAFERBOARD W/ JOISTS HAVING CONTINUOUS SUPPORTS, (D) TWO LAYERS OF LUMBER, EACH MIN. 3/4" (19MM) THICK, WITH JOINTS STAGGERED OR

9.10.17. FLAME SPREAD LIMITS

(E) 1 1/2" (38MM) LUMBER

9.10.17.10. PROTECTION OF FDAMED PLASTICS 1) EXCEPT AS PROVIDED IN SENTENCES (2) AND (3), FOAMED PLASTICS (B) AN INLET THAT ALLOWS FOR THE EFFECTIVE DEPRESSURIZATION OF THAT FORM PART OF A WALL OR CEILING ASSEMBLY SHALL BE PROTECTED TEH GAS-PERMEABLE LAYER, AND FROM ADJAGENT SPACE IN THE BUILDING, OTHER THAN ADJAGENT CONCEALED SPACES WITHIN ATTIC OR ROOF SPACES, CRAW SPACES, WALL ASSEMBLIES AND CEILING ASSEMBLIES (A) BY ONE OF THE INTERIOR FINISHES DESCRIBED IN SUBSECTION 9.29.4. TO 9.29.9. (PLASTERING, GYPSUM BOARD FINISH (TAPPED JOINTS), PLYWOOD, HARDBOARD FINISH, INSULATING FIBREBOARD FINISH, PARTICLEBOARD, OSB OR WAFERBOARD FINISH) (B) PROVIDED THE BUILDING DOES NOT CONTAIN A GROUP C MAJOR OCCUPANCY, BY SHEET METAL THAT

(I) IS MECHANICALLY FASTENED TO THE SUPPORTING ASSEMBLY INDEPENDENT OF THE INSULATION,

(II) IS NOT LESS THAN D.38MM THICK, AND (III) HAS A MELTING POINT NOT LESS THAN 650°C, DR

(C) ANY THERMAL BARRIER THAT MEETS THE REQUIREMENTS OF SENTENCE 3.1.5.15.(2).

9.10.18. ALARM AND DETECTION SYSTEMS

9.10.18.2. FIRE ALARM SYSTEM REQUIRED (2) EXCEPT AS PROVIDED IN SENTENCE (5), A FIRE ALARM SYSTEM SHALL BE INSTALLED (A) IN EVERY BUILDING THAT CONTAINS MORE THAN 3 STOREYS,

INCLUDING STOREYS BELOW THE FIRST STOREY,

EXTERIOR EXIT FACILITY LEADING TO GROUND LEVEL.

(B) WHERE THE TOTAL OCCUPANT LOAD EXCEEDS 300, OR

(C) WHEN THE OCCUPANT LOAD FOR ANY MAJOR OCCUPANCY IN TABLE 9.10.18.2. IS EXCEEDED (RESIDENTIAL, DCCUPANT LOAD-10 (SLEEPING ACCOMMODATIONS)

(5) A FIRE ALARM SYSTEM IS NOT REQUIRED IN A RESIDENTIAL OCCUPANCY WHERE AN EXIT OR PUBLIC CORRIDOR SERVES NOT MORE HAN 4 SUITES OR WHERE EACH SUITE HAS DIRECT ACCESS TO AN

9.10.19. SMOKE ALARMS

9.10.19.3. LOCATIONS OF SMOKE ALARMS (1) EXCEPT AS PERMITTED IN ARTICLE 9.10.19.8., WITHIN DWELLING UNITS SUFFICIENT SMOKE ALARMS SHALL BE INSTALLED SO THAT

NCLUDING BASEMENTS, AND (B) ON ANY STOREY OF A DWELLING UNIT CONTAINING SLEEPING ROOMS, A SMOKE ALARM IS INSTALLED (I) IN EACH SLEEPING ROOM, AND

(II) IN A LOCATION BETWEEN THE SLEEPING ROOMS AND THE REMAINDER OF THE STOREY, AND IF THE SLEEPING ROOMS

ARE SERVED BY A HALLWAY, THE SMOKE ALARM SHALL BE LOCATED IN THE HALLWAY.

.1) EXCEPT AS PERMITTED IN ARTICLE 9.10.19.8., WITHIN A HOUSE WITH A SECONDARY SUITE THAT CONTAINS AN INTERIOR SHARED MEANS OF EGRESS OR COMMON AREA, A SMOKE ALARM SHALL BE INSTALLED IN EACH SHARED MEANS OF EGRESS AND COMMON AREA. (3) SMOKE ALARMS REQUIRED IN ARTICLE 9.10.19.1. AND SENTENCES (1) AND (1.1) SHALL BE INSTALLED ON OR NEAR THE CEILING.

.10.19.4. POWER SUPPLY

(1) EXCEPT AS PROVIDED IN SENTENCES (2) AND (3), SMOKE ALARMS DESCRIBED IN SENTENCE 9.10.19.1.(1) AND 9.10.19.3.(1.1) SHALL A) BE INSTALLED WITH PERMANENT CONNECTIONS TO AN ELECTRIAL IRCUIT

(B) HAVE NO DISCONNECT SWITCH BETWEEN THE OVERCURRENT DEVICE AND THE SMOKE ALARM, AND C) INCASE THE REGULAR POWER SUPPLY TO THE SMOKE ALARM IS NTERRUPTED, WITH A BATTERY AS AN ALTERNATIVE POWER SOURCE THAT CAN CONTINUE TO PROVIDE POWER TO THE SMOKE ALARM FOR A PERIOD OF NOT LESS THAN 7 DAYS IN THE NORMAL CONDITION, FOLLOWED BY 4 MINUTES OF ALARM.

9.10.19.5. INTERCONNECTION OF SMOKE ALARMS (1) WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED IN A DWELLING 9.15.1.1. UNIT, THE SMOKE ALARMS SHALL BE WIRED SO THE ACTIVATION OF ONE EXCEPT AS PROVIDED IN ARTICLES 9.15.1.2. AND 9. ALARM WILL CAUSE ALL ALARMS WITHIN THE DWELLING UNIT TO SOUND. SECTION APPLIES TO (2) SMOKE ALARMS IN A HOUSE W/ A SECONDARY SUITE SHALL BE WIRELESSLY INTERCONNECTED OR INTERCONNECTED BY HARD-WIRING SO THAT THE ACTIVATION OF ANY ONE SMOKE ALARM CAUSES ALL SMOKE ALARMS WITHIN THE HOUSE WITH A SECONDARY SUITE TO

9.11. SOUND TRANSMISSION 9.11.1. PROTECTION OF AIRBORNE NOISE

9.11.1.1. REQUIRED PROTECTION

(1) EXCEPT AS PROVIDED IN SENTENCE (3), A DWELLING UNIT AND A SUITE IN HOTELS SHALL BE SEPARATED FROM EVERY OTHER SPACE IN A 🛛 (C) FLAT INSULATING CONCRETE FROM FOUNDATION BUILDING IN WHICH NOISE MAY BE GENERATED BY (A) A SEPARATING ASSEMBLY AND ADJOINING CONSTRUCTIONS, WHICH, 9.20.1.1.(1)(B) TOGETHER, PROVIDED AN APPARENT SOUND TRANSMISSION CLASS (ASTC) RATING OF NOT LESS THAN 47, DR (B) A SEPARATING ASSEMBLY THAT PROVIDES A SOUND TRANSMISSION CLASS (STC) RATING OF AT LEAST 50 AND ADJOINING CONSTRUCTIONS

9.12. EXCAVATING

THAT CONFORMS TO ARTICLE 9.11.1.4.

9.12.2.2. MINIMUM DEPTH OF FOUNDATIONS (1) EXCEPT AS PROVIDED IN SENTENCES (4) TO (7), THE MINIMUM DEPTH (1) WHERE STEP FOOTINGS ARE USED, OF FOUNDATIONS BELOW FINISHED GROUND LEVEL SHALL CONFORM TO (A) THE VERTICAL RISE BETWEEN HORIZONTAL PORTI TABLE 9.12.2.2.

-ALL EXCAVATION & BACKFILL WORK TO COMPLY WITH D.B.C. 2024

DIVIDED INTO FIRE COMPARTMENTS BY A FIRE SEPARATIONS -BOTTOM OF EXCAVATION TO BE FREE OF ALL ORGANIC MATERIAL.

-EXCAVATIONS SHALL CONFORM TO THE LATEST EDITIONS OF THE

REGULATIONS FOR CONSTRUCTION PROJECTS. -WALLS TO BE BACKFILLED ON BOTH SIDES SHALL BE BACKFILLED EVENLY UNLESS SHORED ON ONE SIDE TO THE SATISFACTION OF THE ENGINEER. PIT WALLS SHALL NOT BE BACKFILLED UNLESS BRACED AT THE TOP TO THE SATISFACTION OF THE ENGINEER. BACKFILL SHALL BE (B) CONFORM TO SUBSECTION 3.2.3., AS IF THE GLAZED OPENINGS WERE APPROVED MATERIAL COMPACTED TO 95% S.P.D. UNLESS OTHERWISE

> 9.13. DAMPPROOFING, WATERPROOFING, AND SOIL GAS CONTROL 9.13.4.1. APPLICATION AND SCOPE

(1) THIS SUBSECTION APPLIES TO (A) WALL, ROOF AND FLOOR ASSEMBLIES SEPARATING CONDITIONED SPACE FROM THE GROUND, AND (B) THE ROUGH-IN TO ALLOW THE FUTURE PROTECTION OF CONDITIONED SUPPORTED AT THE TOP

SPACE THAT IS SEPARATED FROM THE GROUND BY A WALL, ROOF OR FLOOR ASSEMBLY. (2) THIS SUBSECTION ADDRESSES THE LEAKAGE OF SOIL GAS FROM

THE GROUND INTO THE BUILDING. (3) IN AREAS OF PROVINCE WHERE RADON GASES ARE KNOWN TO BE A PROBLEM, THE BUILDING SHALL BE DESIGNED AND CONSTRUCTED TO

MEET THE RADON LIMITATIONS IN ARTICLE 9.1.1.7. 9.13.4.2. PROTECTION FROM SOIL GAS INGRESS (1) EXCEPT AS PROVIDED IN SENTENCE (1.1), ALL WALL, ROOF AND

FLOOR ASSEMBLIES IN CONTACT WITH THE GROUND SHALL BE CONSTRUCTED TO RESIST THE LEAKAGE OF SOIL GAS FROM THE GROUND INTO THE BUILDING IN ACCORDANCE WITH SUBSECTION 9.25.3. OR MMAH SUPPLEMENTARY STANDARD SB-9, "REQUIREMENTS

(1.1) CONSTRUCTION TO RESIST LEAKAGE OF SOIL GAS INTO THE PORTIONS OF BUILDINGS.

(2) UNLESS THE SPACE BETWEEN THE AIR BARRIER SYSTEM AND THE GROUND IS DESIGNED TO BE ACCESSIBLE FOR THE FUTURE HALL BE CONSTRUCTED OF MATERIALS THAT WILL REMAIN IN PLACE AND INSTALLATION OF A SUBFLOOR DEPRESSURIZATION SYSTEM, DWELLING 9.15.6.1. FOUNDATION WALLS BELOW GRADE UNITS AND BUILDING CONTAINING RESIDENTIAL OCCUPANCIES SHALL (1) CONCRETE BLOCK FOUNDATION WALL SHALL BE BE PROVIDED WITH THE ROUGH-IN FOR A RADON EXTRACTION SYSTEM CONFORMING TO ARTICLE 9.13.4.3.

9.13.4.3. PROVIDING FOR THE ROUGH-IN FOR A SUBFLOOR

DEPRESSURIZATION SYSTEM (1) FLOORS-ON GROUND SHALL BE PROVIDED WITH A ROUGH-IN FOR

SUBFLUUR DEPRESSURIZATION CONSISTING OF (A) A GAS-PERMEABLE LAYER, AN INLET AND AN OUTLET AS DESCRIBED IN SENTENCE (2), OR

(B) CLEAN GRANULAR MATERIAL AND A PIPE AS DESCRIBED IN SENTENCE (3) (2) THE ROUGH-IN REFERRED TO IN CLAUSE (1)(A) SHALL INCLUDE (A) A GAS-PERMEABLE LAYER INSTALLED IN THE SPACE BETWEEN THE

AIR BARRIER AND THE GROUND TO ALLOW THE DEPRESSURIZATION OF THAT SPACE.

(C) AN OUTLET IN THE CONDITIONED SPACE THAT (I) PERMITS CONNECTION TO DEPRESSURIZATION EQUIPMENT,

(II) IS SEALED TO MAINTAIN THE INTEGRITY OF THE AIR BARRIER SYSTEM, AND (III) IS CLEARLY LABELED TO INDICATE THAT IT IS INTENDED ONLY

FOR THE REMOVAL OF RADON FROM BELOW THE FLOOR-ON

GROUND. (3) THE ROUGH-IN REFERRED TO IN CLAUSE (1)(8) SHALL INCLUDE (A) CLEAN GRANULAR MATERIAL INSTALLED BELOW THE FLOOR-ON-GROUND IN ACCORDANCE WITH SENTENCE 9.16.2.1.(1), AND WITH THE GROUND BY D.O5MM POLYETHYLENE FILM (B) PIPE NOT LESS THAN 4" IN DIAMETER INSTALLED THROUGH THE FLOOR, SUCH THAT

()) ITS BOTTOM END OPENS INTO THE GRANULAR LAYER REQUIRED -- ALL COLUMNS TO BE CENTERED ON FOOTINGS AND IN CLAUSE (A) AT OR NEAR THE CENTER OF THE FLOOR AND SUPPORTED MEMBER TO PREVENT LATERAL MOVEME NO LESS THAN 4" OF GRANULAR MATERIAL PROJECTS

BEYOND THE TERMINUS OF THE PIPE MEASURED ALONG ITS (II) ITS TOP END PERMITS CONNECTION TO DEPRESSURIZATION

EQUIPMENT AND IS PROVIDED WITH AN AIRTIGHT CAP, AND (III) THE PIPE IS CLEARLY LABELED NEAR THE CAP AND, IF APPLICABLE EVERY 5-11" AND AT EVERY CHANGE IN DIRECTION TO INDICATE THAT IT IS INTENDED ONLY FOR REMOVAL OF RADON FROM BELOW THE FLOOR-ON GROUND. 9.18.2.1. ACCESS OPENINGS

9.14. DRAINAGI

9.14.2.1. FOUNDATION WALL DRAINAGE (1) UNLESS IT CAN BE SHOWN TO BE UNNECESSARY, DRAINAGE SHALL BE PROVIDED AT THE BOTTOM OF EVERY FOUNDATION WALL THAT CONTAINS THE BUILDING INTERIOR.

9.14.3. DRAINAGE TILE AND PIPE 9.14.3.1. MATERIAL STANDARDS

(1) DRAIN TILE AND DRAIN PIPE FOR FOUNDATION DRAINAGE SHALL CONFORM TO THE STANDARDS LISTED IN THE OBC 2024.

9.14.3.2. MINIMUM SIZE (A) THERE IS AT LEAST ONE SMOKE ALARM INSTALLED ON EACH STOREY, (1) DRAIN TILE OR PIPE USED FOR FOUNDATION DRAINAGE SHALL BE NOT LESS THAN 4 Ø.

9.14.3.3. INSTALLATION

(1) DRAIN TILE OR PIP SHALL BE LAID ON UNDISTURBED OR WELL-COMPACTED SOIL SO THAT THE TOP OF TEH TILE OR PIPE IS BELOW THE BOTTOM OF THE FLOOR SLAB OR THE GROUND COVER OF THE CRAWL SPACE (4) THE TOP AND SIDES OF DRAIN PIPE OR TILE SHALL BE COVERED WITH NOT LESS THAN 6" OF CRUSHED STONE OR OTHER COARSE CLEAN GRANULAR MATERIAL CONTAINING NOT MORE THAN 10% OF MATERIAL

THAT WILL PASS A 4MM SIEVE. 9.14.5. DRAINAGE DISPOSAL

9.14.5.2. SUMP PITS (1) WHERE A SUMP PIT IS PROVIDED IT SHALL BE

- (A) NOT LESS THAN 29 1/2" (750mm) DEEP,
- (B) NOT LESS THAN 2.7 SQ.FT. (0.25M2) IN AREA, AND (C) PROVIDED WITH A COVER
- (2) COVERS FOR SUMP PITS SHALL BE DESIGNED
- (A) RESIST REMOVAL BY CHILDREN, AND (B) BE AIRTIGHT IN ACCORDANCE WITH SENTENCE 9.25.3.3.(7)

(3) WHERE GRAVITY DRAINAGE IS NOT PRACTICAL, AN AUTOMATIC SUMP PUMP SHALL BE PROVIDED TO DISCHARGE THE WATER FROM THE SUMP PIT DESCRIBED IN SENTENCE (1) INTO A SEWER, DRAINAGE DITCH OR DRY WELL

9.15 FOOTINGS AND FOUNDATIONS

SUPPORT OCCUPATIONAL HEALTH AND SAFETY ACT AND THE MINISTRY OF LABOUR (1) EXCEPT AS REQUIRED IN SENTENCE (2), THE THIC FOUNDATION WALLS MADE OF UNREINFORGED CONC CONCRETE CORE IN FLAT WALL INSULATING CONCRE CONCRETE AND SUBJECT TO LATERAL EARTH PRESS CONFORM TO TABLE 9.15.4.2.-A FOR WALLS NOT EXI UNSUPPORTED HEIGHT

9.19. ROOF SPACE VENTING

9.19.1.2. VENT REQUIREMENTS

INSULATED CEILING AREA.

(A) BE SEALED AND EVENLY WEIGHTED DOWN, OR

(B) BE COVERED WITH CONCRETE NOT LESS THAN 2" THICK.

JOISTS LAPPED NOT LESS THAN 12" AND,

(2) THE GROUND COVER REQUIRED IN SENTENCE (1) SHALL HAVE ITS

(1) EXCEPT AS PROVIDED IN SENTENCE (2), THE UNOBSTRUCTED VENT

CONSTRUCTED WITH ROOF JOISTS, THE UNOBSTRUCTED VENT AREA

SHALL BE NOT LESS THAN 1/150 OF THE INSULATED CEILING AREA.

(2) WHERE THE ROOF SLOPE IS LESS THAN 1 IN 6 OR IN ROOFS THAT ARE

UNDBSTRUCTED VENT AREA TO BE NOT LESS THAN 1/300 OF THE

| 9.15 FOOTINGS AND FOUNDATIONS 9.15.1.1. EXCEPT AS PROVIDED IN ARTICLES 9.15.1.2. AND 9.15.1.3., THIS SECTION APPLIES TO (A) CONCRETE OR UNIT MASONRY FOUNDATION WALLS AND CONCRETE FOOTINGS NOT SUBJECT TO SURCHARGE (I) ON STABLE SOILS WITH AN ALLOWABLE BEARING PRESSURE OF | 9.19.1.3. CLEARANCES (1) EXCEPT AS PROVIDED IN SENTENCE (2), WHERE VENTING IS PROVIDED TO A ROOF JOISTS SPACE, NOT LESS THAN 2 1/2 [°] OF SPACE SHALL BE PROVIDED BETWEEN THE TOP OF THE INSULATION AND THE UNDERSIDE OF THE ROOF SHEATHING. 9.19.2.1. ACCESS | 9.23.3. FASTERNERS AND CONNECTORS 9.23.3.1. STANDARDS FOR NAILS AND SCREWS (1) EXCEPT AS PROVIDED IN SENTENCE (2) AND UNLESS OTHERWISE INDICATED, NAILS SPECIFIED IN THIS SECTION SHALL BE COMMON STEEL WIRE NAILS OR COMMON SPIRAL NAILS, CONFORMING TO (A) ASTM F1667, "STANDARD SPECIFICATION FOR DRIVEN FASTENERS: NAILS, SPIKES AND STAPLES." OR | 9.25.2. THERMAL INSULATION 9.25.2.1. REQUIRED INSULATION (1) ALL WALLS, CEILING AND FLOOR SEPARATING HEATED UNHEATED SPACE, THE EXTERIOR AIR OR THE EXTERIOR SI PROVIDED WITH SUFFICIENT THERMAL INSULATION TO PRE CONDENSATION ON THEIR ROOM SIDE DURING THE WINTER ENSURE COMFORTABLE CONDITIONS FOR THE OCCUPANTS |
|---|--|---|--|
| 1570 PSF (75 KPA) (II) FOR BUILDINGS OF WOOD-FRAME OR MASONRY CONSTRUCTION. (B) WOOD-FRAME FOUNDATION WALLS AND WOOD OR CONCRETE FOOTINGS NOT SUBJECT TO SURCHARGE (I) ON STABLE SOILS WITH AN ALLOWABLE BEARING PRESSURE OF 1570 PSF (75KPA) OR GREATER, AND (II) FOR BUILDINGS OF WOOD-FRAME CONSTRUCTION. AND | (2) THE HATCH REQUIRED IN SENTENCE (1) SHALL NOT BE LESS THAN 22"x35.5" EXCEPT THAT, WHERE THE HATCH SERVES NOT MORE THAN ONE DWELLING UNIT, THE HATCH MAY BE REDUCED TO 0.32M2 IN AREA WITH NO DIMENSION LESS THAN OR 20". 9.20. MASONRY AND INSULATING CONCRETE FORM WALLS NOT IN CONTACT WITH THE GROUND | (B) CSA B111, "WIRE NAILS, SPIKES AND STAPLES." (2) NAILS USED TO COMPLY WITH TABLE 9.23.3.4. SHALL HAVE A DIAMETER NOT LESS THAN THAT STATED IN TABLE 9.23.3.1. (3) WOOD SCREWS SPECIFIED IN THIS SECTION SHALL CONFORM TO ANSI/ASME B18.6.1., "WOOD SCREWS (INCH SERIES)". | 9.25.2.2. INSULATION MATERIALS (1) EXCEPT AS REQUIRED IN SENTENCE (2), THERMAL INSU CONFORM TO THE REQUIREMENTS OF (A)-(I) (2) THE FLAME-SPREAD RATING REQUIREMENTS CONTAINED STANDARDS LISTED IN SENTENCE (1) SHALL NOT APPLY. |
| (II) FOR BUILDINGS OF WOOD-FRAME CONSTRUCTION, AND (C) FLAT INSULATING CONCRETE FROM FOUNDATION WALLS AND CONCRETE FOOTINGS NOT SUBJECT TO SURCHARGE 9.15.1.1.(1)(C) AND 9.20.1.1.(1)(B) | 9.20.1.1. (1) EXCEPT AS PROVIDED IN ARTICLE 9.20.1.2., THIS SECTION APPLIES TO | 9.23.3.4. NAILING OF FRAMING (1) EXCEPT AS PROVIDED IN SENTENCE (2) NAILING AND FRAMING SHALL CONFORM TO TABLE 9.23.3.4. | 9.25.2.3. INSULATION OF THERMAL INSULATION (1) INSULATION SHALL BE INSTALLED SO THAT THERE IS A UNIFORM INSULATING VALUE OVER THE ENTIRE FAGE OF T |
| (I) ON STABLE SOILS WITH AN ALLOWABLE BEARING PRESSURE OF 1570 PSF (75κPA) OR GREATER, AND (II) FOR BUILDINGS OF LIGHT-FRAME OR FLAT INSULATING CONCRETE FROM CONSTRUCTION THAT ARE NOT MORE THAN 2 STOREYS IN BUILDING HEIGHT, WITH A MAXIMUM FLOOR-TO-FLOOR HEIGHT DF 9¹-10¹¹ 9 15 3 9. STEP FOOTINGS | (A) UNREINFORCED MASONRY AND MASONRY VENEER WALLS NOT IN CONTACT WITH THE GROUND, WHERE (I) THE HEIGHT OF THE WALLS CONSTRUCTED ON THE FOUNDATION WALLS DOES NOT EXCEED 36¹·1[#], AND (II) THE ROOF OR FLOOR ASSEMBLY ABOVE THE FIRST STOREY IS NOT OF CONCRETE CONSTRUCTION, AND (B) FLAT INSULATING CONCRETE FORM WALLS NOT IN CONTACT WITH THE GROUND THAT | 9.23.3.5. FASTENING FOR SHEATHING OR SUBFLOORING (1) EXCEPT AS REQUIRED BY SENTENCES (2) TO (4), FASTENING OF SHEATHING AND SUBFLOORING SHALL CONFORM TO TABLE 9.23.3.5A. (2) FASTENING OF ROOF SHEATHING AND SHEATHING IN REQUIRED BRACED WALL PANELS SHALL CONFORM TO TALBE 9.23.3.5B, WHERE (A) THE 1-IN-50 HOURLY WINDOW PRESSURE (HWP) IS EQUAL TO OR GREATER THAN D.8KPA AND LESS THAN 1.2KPA AND THE SEISMIC SPECTRAL ACCELERATION S(0.2, IS NOT MORE THAN 0.90, OR | AREA. (2) INSULATION SHALL BE APPLIED TO THE FULL WIDTH AN THE SPACE BETWEEN FURRING OR FRAMING. (3) EXCEPT WHERE THE INSULATION PROVIDES THE PRINCI RESISTANCE TO AIR LEAKAGE, THERMAL INSULATION SHAL INSTALLED SO THAT AT LEAST ONE FACE IS IN FULL AND C CONTACT WITH AN ELEMENT WITH LOW AIR PERMEANCE. (4) INSULATION SHALL BE INSTALLED OVER THE FULL HEIG |
| (1) WHERE STEP FOOTINGS ARE USED, (A) THE VERTICAL RISE BETWEEN HORIZONTAL PORTIONS SHALL NOT EXCEED 24⁴, AND (B) THE HORIZONTAL DISTANCE BETWEEN RISERS SHALL BE NOT LESS THAN 24⁴ | (I) HAVE A MAX. FLOOR-TO FLOOR HEIGHT OF 9 ¹ -10 ¹ , (II) ARE ERECTED IN BUILDINGS NOT MORE THAN 2 STOREYS IN BUILDING HEIGHT, AND III) ARE ERECTED IN LOCATIONS WHERE THE SEISMIC SPECTRAL RESPONSE ACCELERATION, SA(0.2), IS NOT GREATER THAN 0.4. | (B) THE SEISMIC SPECTRAL ACCELERATION, SA(0.2), IS GREATER (B) THE SEISMIC SPECTRAL ACCELERATION, SA(0.2), IS GREATER THAN 0.70 AND NOT MORE THAN 0.90. (3) FASTENING OF ROOF SHEATHING AND SHEATHING IN REQUIRED BRACED WALL PANELS SHALL CONFORM TO TABLE 9.23.3.5C, WHERE (A) THE SEISMIC SHALL CONFORM TO TABLE 9.23.3.5C, | FOUNDATION WALLS ENCLOSING A BASEMENT OR HEATED (5) INSULATION AROUND CONCRETE SLAB-ON-GROUND SH LOCATED SO THAT HEAT FROM THE BUILDING IS NOT REST REACHING THE GROUND BENEATH THE PERIMETER, WHERE WALLS ARE NOT SUPPORTED BY FOOTINGS EXTENDING BE |
| -MAX. 16 [®] VERTICAL RISE AND HORIZONTAL DISTANCE IN SANDY CONDITIONS | WHERE THE MASONRY WALLS OR INSULATING CONCRETE FORM WALLS NOT IN CONTACT WITH THE GROUND ARE DESIGNED FOR SPECIFIED LOADS ON THE BASIS OF ULTIMATE AND SERVICEABILITY LIMIT STATES, | (A) THE T-IN-SU HUBBLY WIND PRESSURE (HWP) IS EQUAL TO DR GREATER THAN 0.8KPA AND LESS THAN 1.2KPA AND THE SPECTRAL ACCELERATION, SA(0.2), IS GREATER THAN 0.90 AND NOT MORE THAN 1.8 DR | (6) WHERE INSULATION IS EXPOSED TO THE WEATHER AND MECHANICAL DAMAGE, IT SHALL BE PROTECTED WITH NOT 1/4" PRESERVATION-TREATED PLYWOOD, OR (B) 1/2" CEMEN |
| 9.15.4.2. FOUNDATION WALL THICKNESS AND REQUIRED LATERAL SUPPORT (1) EXCEPT AS REQUIRED IN SENTENCE (2), THE THICKNESS OF | SUBSECTION 4.3.2. SHALL APPLY SEE 9.20.2.1 FOR MASONRY UNIT STANDARDS SEE 9.20.2.6 FOR CONCRETE UNITS EXPOSED TO THE WEATHER | (B) THE SEISMIC SPECTRAL ACCELERATION, SA(0.2), IS GREATER THAN 0.90 AND NOT MORE THAN 1.8. 9.23.4.2. SPANS, FOR JOISTS, RAFTERS AND BEAMS | WIRE LATH APPLIED TO THE EXPOSED FACE AND EDGE. (7) EXCEPT AS PERMITTED IN SENTENCE (7.1) INSULATION BARRIER LOCATED IN AREAS WHERE IT MAY BE SUBJECT TO DAMAGE SHALL BE REDIFECTED BY A COVERING SUCH AS (|
| CONCRETE CORE IN FLAT WALL INSULATING CONCRETE FORMS OR SOLID CONCRETE AND SUBJECT TO LATERAL EARTH PRESSURE SHALL CONFORM TO TABLE 9.15.4.2A FOR WALLS NOT EXCEEDING 9'-10' IN UNSUPPORTED HEIGHT | SEE 9.20.2.7(1) FOR COMPRESSIVE STRENGTH OF CONCRETE BLOCKS SEE 9.20.3. FOR MORTAR SEE 9.20.4. FOR MORTAR JOINTS 9.20.5. MASONRY SUPPORT | (1) EXCEPT AS REQUIRED IN SENTENCE (2) AND ARTICLE 9.23.14.10, SPANS FOR WOOD JOISTS AND RAFTERS SHALL CONFORM TO THE SPANS SHOWN IN SPAN TABLES 9.23.4.2A TO 9.23.4.2G FOR THE UNIFORM LIVE LOADS SHOWN IN THE TABLES. (2) SPANS FOR FLOOR JOISTS THAT ARE NOT SELECTED FROM SPAN | PLYWDDD, PARTICLEBOARD, DSB, WAFERBOARD OR HARDI (7.1) IN UNFINISHED BASEMENTS, THE PROTECTION REQUI SENTENCE (7) NEED NOT BE PROVIDED FOR MINERAL FIBR PROVIDED IT IS COVERED WITH A MEMBRANE WHICH COMP REQUIREMENT OF SECTION 9.25.4. |
| 9.15.4.7. REDUCTION IN THICKNESS (1) WHERE THE TOP OF A FOUNDATION WALL IS REDUCED IN THICKNESS TO PERMIT THE INSTALLATION OF FLOOR JOISTS, THE REDUCED SECTION SHALL BE NOT MORE THAN 13 $3/4^{\sharp}$ (350mm) HIGH AND NOT LESS THAN 3 $1/2^{\sharp}$ (90mm) THICK. | 9.20.5.1. MASONRY SUPPORT (1) ALL MASONRY SHALL BE SUPPORTED ON MASONRY, CONCRETE OR STEEL, EXCEPT THAT MASONRY VENEER WALLS MAY BE SUPPORTED ON FOUNDATIONS OF WOOD FRAME CONSTRUCTION IN CONFORMANCE WITH SENTENCE 9.15.2.4(1). | TABLES 9.23.4.2-A AND 9.23.4.2-B AND THAT ARE REQUIRED TO BE DESIGNED FOR THE SAME LOADING CONDITIONS, SHALL NOT EXCEED THE DESIGN REQUIREMENT FOR UNIFORM LOADING AND VIBRATION CRITERIA. (3) SPANS FOR BUILT-UP WOOD AND GLUED-LAMINATED TIMBER FLOOR BEAMS SHALL CONFORM TO THE SPANS IN SPAN TABLES 9.23.4.2H TO | 9.25.2.4.(1) EXCEPT AS PROVIDED IN SENTENCES (2) TO (6 INSULATION SHALL BE USED ON HORIZONTAL SURFACES ((2) WHERE LOOSE-FILL INSULATION IS INSTALLED IN AN U SLOPED SPACE, SUCH AS AN ATTIC SPACE OVER A SLOPED |
| 9.15.4.3. FOUNDATION WALLS CONSIDERED TO BE LATERALLY SUPPORTED AT THE TOP (3) UNLESS THE WALL AROUND AN OPENING IS REINFORCED TO WITHSTAND EARTH PRESSURE, THE PORTION OF THE FOUNDATION WALL BENEATH AN OPENING SHALL BE CONSIDERED LATERALLY | 9.20.5.2. LINTELS OR ARCHES (3.1) STEEL LINTELS DESCRIBED IN SENTENCES (2) AND (3) SHALL (A) HAVE EVEN AND LEVEL BEARING AND SHALL HAVE NOT LESS THAN 150MM LENGTH OF BEARING AT ENDS SUPPORTS, AND (B) BEAR ON MASONRY, CONCRETE OR STEEL UNLESS OTHERWISE NOTED. | 9.23.4.2K (4) SPANS FOR ROOF RIDGE MEANS SHALL CONFORM TO THE SPANS IN SPAN TABLE 9.23.4.2-L FOR THE UNIFORM SNOW LOAD SHOWN. 9.23.4.3. STEEL BEAMS | SUPPORTING SLOPE SHALL NOT BE MORE THAN (A) 4.5 IN MINERAL FIBRE OR GELLULOSE FIBRE INSULATION, AND (E OTHER TYPES OF INSULATION. (6) WHERE SOFFIT VENTING IS USED, MEASURES SHALL BE PREVENT LOOSE-FILL INSULATION FROM BLOCKING THE SC AND TO MAINTAIN AN OPEN PATH FOR CIRCULATION OF AII |
| UNSUPPORTED IF (A) THE OPENING IS MORE THAN 3 ¹ -11" WIDE, OR (B) THE TOTAL WIDTH OF THE OPENINGS IN THE FOUNDATION WALL CONSTITUTES MORE THAN 25% OF THE LENGTH OF THE WALL. (4) FOR THE PURPOSES OF SENTENCES (3), THE COMBINED WIDTH OF | (4) STEEL ANGLE LINTELS SUPPORTING MASONRY SHALL BE PRIME PAINTED OR OTHERWISE PROTECTED FROM CORROSION. 9.20.8.3. BEARING OF BEAMS AND JOISTS (2) IN NO CASE SHALL THE MINIMUM LENGTH OF END BEARING OF BEAMS | (1) THE SPANS FOR STEEL BEAMS WITH LATERALLY SUPPORTED TOP FLANGES SHALL CONFORM TO TABLE 9.23.4.3. FOR FLOORS AND SPAN TABLES 9.23.4.3A TO 9.23.4.3J FOR ROOF AND FLOORS. (2) BEAMS DESCRIBED IN SENTENCE (1) SHALL AT LEAST MEET THE REQUIREMENTS FOR GRADE 350W STEEL IN CSA G40.21, "STRUCTURAL DUALITY STEEL" | VENTS INTO THE ATTIC OR ROOF SPACE, AND (B) TO MINIM INTO THE INSULATION NEAR THE SOFFIT VENTS TO MAINTA THERMAL PERFORMANCE OF THE MATERIAL. 9.26.2.5.(1) SPRAY-APPLIED POLYURETHANE INSULATION INSTALLED IN ACCORDANCE WITH CAN/ULC-S705.2, "STANI |
| THE UPENINGS SHALL BE CONSIDERED AS A SINGLE UPENING IF THE AVERAGE WIDTH IS GREATER THAN THE WIDTH OF SOLID WALL BETWEEN THEM. | (3) THE LENGTH OF END BEARING OF FLOOR, ROOF OR CEILING JOISTS SUPPORTED ON MASONRY SHALL BE NOT LESS THAN 1 1/2". | -ALL NOTCHING AND DRILLING IN FRAMING MEMBERS SHALL CONFORM TO 0.B.C. 2024, 9.23.5. | 9.25.3. AIR BARRIER SYSTEMS |
| 9.15.4.9. CRACK CONTROL JOISTS (1) CRACK CONTROL JOISTS SHALL BE PROVIDED IN FOUNDATION WALLS MORE THAN 82 ¹ -0 [°] (25m) LONG AT INTERVALS NOT MORE THAN 49 ¹ -2 1/2 [°] (15m). | 9.20.8.5. PROJECTION OF MASONRY VENEER BEYOND SUPPORTING MEMBERS (1) MASONRY VENEER OF SOLID MASONRY UNITS RESTING ON A BEARING SUPPORT SHALL NOT PROJECT MORE THAN ONE-THIRD OF THE THICKNESS OF THE VENEER. | 9.23.6. ANCHORAGE 9.23.6.1. ANCHORAGE OF BUILDING FRAMES (2) EXCEPT AS PROVIDED IN SENTENCES (3) TO (6), ANCHORAGE SHALL BE PROVIDED BY (A) EMBEDDING THE ENDS OF THE FIRST FLOOR JOISTS | 9.25.3.1. REQUIRED BARRIER TO AIR LEAKAGE (1) WALL, CEILING AND FLOOR ASSEMBLIES THAT SEPARAT CONDITIONED SPACE FROM UNCONDITIONED SPACE OR FF GROUND SHALL BE CONSTRUCTED SO AS TO INCLUDE AN SYSTEM THAT WILL PROVIDE A CONTINUOUS BARRIER TO A |
| 9.15.5.2. SUPPORT OF BEAMS (1) NOT LESS THAN 7 1/2 ¹ DEPTH OF SOLID MASONRY SHALL BE PROVIDED BENEATH BEAMS SUPPORTED ON MASONRY. | 9.20.9. BONDING AND TYING 9.20.9.5. TIES FOR MASONRY VENEER (1) MASONRY VENEER 2.3/4" OR MORE IN THICKNESS AND RESTING ON A | WITH NOT LESS THAN 1/2"Ø ANCHOR BOLTS SPACED NOT MORE THAN 7'-10" MINIMUM (4) FOR BUILDING SUPPORTED BY FRAME WALLS THAT ARE IN AREAS | FROM THE INTERIOR OF THE BUILDING INTO WALL, FLOOR, SPACES SUFFICIENT TO PREVENT EXCESSIVE MOISTURE CO IN SUCH SPACES DURING THE WINTER, AND (B) FROM THE THE GROUND INWARD SUFFICIENT TO (I) PREVENT MOISTUR |
| 9.15.6. PARGIN AND FINISHING OF MASONRY FOUNDATION WALLS 9.15.6.1. FOUNDATION WALLS BELOW GRADE (1) CONCRETE BLOCK FOUNDATION WALL SHALL BE PARGED ON THE EXTERIOR FACE BELOW GROUND LEVEL AS REQUIRED BY 9.13. | BEARING SUPPORT SHALL BE TIED TO MASONRY BACKING OR TO WOOD FRAMING MEMBERS WITH STRAPS THAT ARE (A) CORROSION-RESISTANT, (B) NOT LESS THAN 0.76MM THICK, (C) NOT LESS THAN 7/8" WIDE, | WHERE THE SEISMIC SPECTRAL ACCELERATION, SA(0.2), IS GREATER THAN 0.70 BUT NOT GREATER THAN 1.8 AND THE 1-IN-50 HOURLY WIND PRESSURE (HWP) IS NOT GREATER THAN 1.2 KPA, ANCHORAGE SHALL BE PROVIDED BY FASTENING THE SILL PLATE TO THE FOUNDATION WITH NOT LESS THAN TWO ANCHOR BOLTS PER BRACED WALL PANEL LOCATED | CONDENSATION ON THE ROOM SIDE DURING WINTER, (II) E COMFORTABLE CONDITIONS FOR THE OCCUPANTS, AND (III INGRESS OF SOIL GAS. (2) THE CONTINUITY OF THE AIR BARRIER SYSTEM SHALL E THROUGHOUT THE BASEMENT. |
| 9.15.6.2. FOUNDATION WALL ABOVE GROUND (1) EXTERIOR SURFACES OF CONCRETE BLOCK FOUNDATION WALLS ABOVE GROUND LEVEL SHALL HAVE TOOLED JOINTS, OR SHALL BE PARGED OR OTHERWISE SUITABLY FINISHED | (D) SHAPED TO PROVIDE A KEY WITH MORTAR, (E) PRE-BENT DURING MANUFACTURE TO A RIGHT ANGLE WITHIN 1/4" OF THE FASTENER HOLE, (F) FASTENED WITH (I) CORROSION-RESISTANT WOOD SCREWS CONFORMING TO | WTIHIN 20" OF THE END OF THE FOUNDATION AND SPACED IN ACCORDANCE WITH TABLE 9.23.6.1. (5) ANCHOR BOLTS REFERRED TO IN SENTENCES (2) TO (4) SHALL BE (A) FASTENED TO THE SILL PLATE WITH NUTS AND WASHERS, (B) EMBEDDED NOT LESS THAN 100MM IN TEH FOUNDATION, AND (C) SO DESIGNED | 9.25.3. AIR BARRIER SYSTEMS 9.25.3.2. AIR BARRIER SYSTEM PROPERTIES (2) WHERE POLYETHYLENE SHEET IS USED TO PROVIDE TH AIRTIGHTNESS IN THE AIR BARRIER SYSTEM, IT SHALL COM |
| 9.16. FLODRS-ON-GROUND (1) EXCEPT AS PROVIDED IN SENTENCE (2), NOT LESS THAN 4" OF COURSE CLEAN GRANULAR MATERIAL CONTAINING NOT MORE THAN 10% OF MATERIAL THAT WILL PASS A 4MM SIEVE SHALL BE PLACED BENEATH FLOORS-ON-GROUND. (2) CRANULAR MATERIAL NEED NOT BE INSTALLED UNDER | SENTENCE 9.23.3.1.(3) THAT HAVE A MIN. DIA. OF 3/16" (NO.B) AND A WOOD PENETRATION OF NOT LESS THAN 1 1/2", OR (II) CORROSION-RESISTANT COMMON SPIRAL NAILS CONFORMING TO SENTENCE 9.23.3.1.(1) THAT ARE NOT LESS THAN63MM, AND (G) SPACED AS PER TABLE 9.20.9.5. | 9.23.8. BEAMS TO SUPPORT FLOORS 9.23.8.1. BEARING FOR BEAMS (1) BEAMS SHALL HAVE EVEN AND LEVEL BEARING AND THE BEARING AT | CAN/CGDB-51.34-M, VAPOUR BARRIER, POLYETHYLENE SI IN BUILDING CONSTRUCTION. 9.25.4. VAPOUR BARRIERS 9.25.4.1. REQUIRED BARRIER TO VAPOUR DIFFUSION |
| (2) GRANDLAR MATERIAL NEED NOT BE INSTALLED UNDER (A) SLABS IN GARAGES, CARPORTS OR ACCESSORY BUILDINGS, OR (B) BUILDINGS OF INDUSTRIAL OCCUPANCY WHERE THE NATURE OF THE PROCESS CONTAINED THEREIN PERMITS OR REQUIRES THE USE OF LARGE OPENINGS IN THE BUILDING ENVELOP EVEN DURING THE WINTER. | (3) THES FOR MASLINGT VENEER SUPPORTED BY MASLINGT OR WOOD-FRAME BACKING SHALL BE SECURED TO THE BACKING AS PER 4.3.2. (4) THE STRAPS DESCRIBED IN SENTENCE (1) MAY BE INSTALLED AGAINST ONE OF THE SHEATHINGS LISTED IN TABLE 9.23.17.2-A | END SUPPORTS SHALL BE NOT LESS THAN 3 1/2" LONG, EXCEPT AS STATED IN THE NOTES TO SPAN TABLESH TO 9.23.4.2K. 9.23.8.2. PRIMING OF STEEL BEAMS | SHALL BE CONSTRUCTED WALL, GEILING AND FLOR AS SHALL BE CONSTRUCTED WITH A VAPOUR BARRIER SO AS BARRIER TO DIFFUSION OF WATER VAPOUR FROM THE INTE WALL SPACES, FLOOR SPACES, OR ATTIC OR ROOF SPACES |
| 9.16.4.3. THICKNESS (1) CONCRETE SLABS SHALL BE NOT LESS THAN 3" THICK EXCLUSIVE OF CONCRETE TOPPING. | (A) THE TIE IS IN CONTACT WITH THE EXTERIOR SURFACE OF THE SHEATHING, AND (B) THE SHEATHING BENEATH THE TIE IS NOT COMPRESSED | RUST-INHIBITIVE PAINT. 9.23.9. FLOOR JOISTS | (1) PRODUCTS INSTALLED TO FUNCTION AS THE VAPOUR B PROTECT THE WARM SIDE OF THE WALL, CEILING AND FLOD ASSEMBLIES. |
| 9.17. COLUMNS 9.17.4.3. COLUMNS IN CONTACT WITH CONCRETE (1) WOOD COLUMNS SHALL BE SEPARATED FROM CONCRETE IN CONTACT | 9.20.12. CORBELLING 9.20.12.1. CORBELLING (2) SOLID MASONRY UNITS SHALL BE CORBELLED SO THAT THE HORIZONTAL PROJECTION OF ANY UNIT DOES NOT EXCEED 1 [®] AND THE | 9.23.9.1. END BEARING FOR JUISTS (1) EXCEPT WHEN SUPPORTED ON RIBBON BOARDS, FLOOR JOISTS SHALL HAVE NOT LESS THAN 3 1/2" LENGTH OF END BEARING. 9.23.10. WALL STUDS 9.23.10.1. STUD SIZE AND SPACING | 9.26. ROOFING 9.26.1.2. REQUIRED PROTECTION (1) ROOFS SHALL BE PROTECTED WITH ROOFING, INCLUDI INSTALLED SO AS TO (A) EFFECTIVELY SHED WATER, (B) PR INGRESS DE WATER AND MOISTURE INTO BUILDING ASSEM |
| WITH THE GROUND BY 0.05MM POLYETHYLENE FILM OR TYPE S ROLL ROOFING. -ALL COLUMNS TO BE CENTERED ON FOOTINGS AND FASTENED TO | 9.20.13. CONTROL OF RAINWATER PENETRATION | (1) EXCEPT AS PROVIDED IN SENTENCE (2), THE SIZE AND SPACING OF STUDS SHALL CONFORM TO TABLE 9.23.10.1. (2) STUDS FOR WALLS NOT LISTED IN TABLE 9.23.10.1. AND SUPPORTING ROOF LOADS SHALL CONFORM TO SPAN TABLES 9.23.10.1. A TO | DCCUPIED SPACE, AND (C) MINIMIZE THE INGRESS OF WAT DAMMING INTO BUILDING ASSEMBLIES. |
| SUPPORTED MEMBER TO PREVENT LATERAL MOVEMENT. | 9.20.13.8. REQUIRED WEEP HOLES (1) WEEP HOLES SHALL BE SPACED AT 31 [°] ON CENTER MAXIMUM AND SHALL BE PROVIDED A THE BOTTOM OF (A) CAVITIES IN CAVITY WALLS, | 9.23.10.1D PROVIDED (A)-(F). 9.23.14. ROOF AND CEILING FRAMING | 9.26.1.4. SOLAR COLLECTOR SYSTEMS (1) A SOLAR COLLECTOR SYSTEM IS PERMITTED TO BE INS RODFING MATERIALS CONFORMING TO 9.26.2.1.(1) 9.26.2.1.(1) WHERE MATERIALS USED FOR THE PREPARATI |
| (1) IN THIS SECTION, A GRAWL SPACE REFERS TO AN ENGLOSED SPACE BETWEEN THE UNDERSIDE OF FLOOR ASSEMBLY AND GROUND COVER DIRECTLY BELOW, WITH GLEARANCE NOT LESS THAN 5 ¹ -11 ¹ (1800mm) HEIGHT. | 9.21.4. MASONRY AND CONCRETE CHIMNEY CONSTRUCTION 9.21.4.4. HEIGHT OF CHIMNEY FLUES (1) CHIMNEY FLUE SHALL EXTENT NOT LESS THAN (A) 3 ⁻ 0" AROVE THE HIGHEST POINT AT WHICH THE CHIMNEY COMES IN | 9.23.14.1. CONTINUITY OF RAFTERS AND JOISTS (1) ROOF RAFTER AND JOISTS AND CEILING JOISTS SHALL BE CONTINUOUS OR SHALL BE SPLICED OVER VERTICAL SUPPORTS THAT EXTENT TO SUITABLE BEARING. | SUBSTRATE FOR ROOFING ARE COVERED IN THE SCOPE OF LISTED IN TABLE 9.26.2.1A THEY SHALL CONFORM TO TH (2) WHERE ROOF MATERIALS ARE COVERED IN THE SCOPE STANDARD LISTED IN TABLE 9.26.2.1B THEY SHALL CON STANDARD. |
| 9.18.2.1. ACCESS OPENINGS (1) AN ACCESS OPENING OF NOT LESS THAN 1'-9 1/2'x2'-11 1/2" SHALL BE PROVIDED TO EACH CRAWL SPACE WHERE THE CRAWL SPACE SERVES A SINGLE DWELLING UNIT AND NOT LESS THAN 1'-9"x2'-3 1/2" FOR OTHER | CONTACT WITH THE ROOF, AND (B) 2'-0" ABOVE THE HIGHEST ROOF SURFACE OR STRUCTURE OR STRUCTURE WITHIN 9'-10" OF THE CHIMNEY. | (1) THE LENGTH OF END BEARING OF JOISTS RAFTERS SHALL BE NOT LESS THAN 1 1/2" | 9.26.3. SLOPE OF ROOF SURFACES 9.26.3.1. SLOPE (1) EXCEPT AS PROVIDED IN SENTENCE (2) AND (3) THE SL |
| 9.18.4.1. ACCESS WAY TO SERVICES (1) WHERE EQUIPMENT REQUIRING SERVICING SUCH AS PLUMBING CLEANOUTS, TRAPS AND BURNERS IS LOCATED IN CRAWL SPACES, AN ACCESS WAY WITH A HEIGHT AND WIDTH OF NOT LESS THAN 2'O" SHALL | 9.21.4.5. LATERAL STABILITY (1) A CHIMNEY NEED NO BE LATERALLY BRAGED PROVIDED (A) NO HORIZONTAL OUTSIDE DIMENSION IS LESS THAN 16 ["] , AND (B) THE CHIMNEY EXTENDS MAX. 11 ['] -9 3/4 ["] ABOVE A ROOF OR THE MASONRY WALL OF WHICH IT FORMS A PART. | 23.16.1. ROOF SHEATHING 9.23.16.1. REQUIRED ROOF SHEATHING (1) EXCEPT WHERE THE 1-IN50 HOURLY WIND PRESSURE IS LESS THAN 0.8KPA AND THE SEISMIC SPECTRAL ACCELERATION, SA(D.2), IS LESS THAN OR EQUAL TO 0.70, CONTINUOUS LUMBER OR PANEL TYPE ROOF SHEATHING SHALL BE INSTALLED TO SUPPORT THE ROOFING. | WHICH ROOF COVERINGS MAY BE APPLIED SHALL CONFOR 9.26.3.1. (2) ASPHALT AND GRAVEL OR COAL TAR AND GRAVEL ROD CONSTRUCTED WITH LOWER SLOPES THAN REQUIRED IN S WHEN EFFECTIVE DRAINAGE IS PROVIDED BY ROOF DRAINS THE LOWEST POINTS ON THE ROOFS. |
| BE PROVIDED FROM THE ACCESS DOOR TO THE EQUIPMENT AND FOR A DISTANCE OF 3'-0" ON THE SIDE OR SIDES OF THE EQUIPMENT TO BE SERVED. 9.18.6.1. GROUND COVER IN UNHEATED CRAWL SPACES | 9.22. FIREPLACES 9.22.1.4. COMBUSTION AIR (0.1) EVERY SOLID FUEL-FIRED FIREPLACE, INCLUDING A FACTOR-BUILT FIREPLACE, SHALL HAVE A SUPPLY OF COMBUSTION AIR FROM OUTDOORS IN ACCORDANCE WITH SENTENCES (0.2) TO 1. | 9.23.17. WALL SHEATHING 9.23.17.1. REQUIRED SHEATHING (1) EXTERIOR WALLS AND GABLE ENDS SHALL BE SHEATHED WHEN THE EXTERIOR CLADDING REQUIRED INTERMEDIATE FASTENING BETWEEN SUPPORTS OR IF THE EXTERIOR CLADDING REQUIRED SOLID BLOCKING. | (3) PROFILED METAL ROOF CLADDING SYSTEMS SPECIFICA FOR LOW-SLOPE APPLICATIONS ARE PERMITTED TO BE INS LOWER SLOPES THAN REQUIRED IN SENTENCE (1), PROVID INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. |
| (1) WHERE A GRAWL SPACE IS UNHEATED, A GROUND COVER SHALL BE PROVIDED CONSISTING OF NOT LESS THAN (A) 2" (50mm) ASPHALT, (B) 4" (100mm) OF 15 MPA CONC | 9.23. WOOD FRAME CONSTRUCTION WOOD STUDS, JOISTS, NAILERS, BLOCKING, BUILT-UP BEAMS. AND | 9.23.17.2. THICKNESS, RATING AND MATERIAL STANDARDS (1) WHERE WALL SHEATHING IS REQUIRED FOR THE PURPOSE OF | -ALL FLASHING AT INTERSECTIONS TO COMPLY WITH D.B.C -ALL TYPES OF ROOFING TO COMPLY WITH D.B.C. 2024 9.2 |
| (C) TYPE S ROLL ROOFING, (D) 0.10MM POLYETHYLENE. (2) JOINTS IN SHEET-TYPE GROUND COVER REQUIRED IN SENTENCE (1) | COLUMNS SHALL BE S.P.F. No. 2 (CONSTRUCTION GRADE) OR BETTER - CONFORMING TO CAN/CSA-041-91 "SOFT WOOD LUMBER". GRADING SHALL CONFORM TO THE NATIONAL LUMBER GRADES | SUMPLING WITH THIS SECTION, IT SHALL GUNFURM TO TABLE9.23.17.2A OR TABLE 9.23.17.2B 9.24. SHEET STEEL STUD WALL FRAMING | 9.26.18. ROOF DRAINS AND DOWNSPOUT 9.26.18.2. DOWNSPOUTS (1)WHERE DOWNSPOUT ARE PROVIDED AND ARE NOT CON SEWER, EXTENSIONS SHALL BE REDVIDED TO CARY DATA |
| SHALL BE LAPPED NOT LESS THAN 4" (100MM) AND WEIGHTED DOWN. 9.18.6.2. GROUND COVER IN HEATED CRAWL SPACES (1) WHERE A GRAWL SPACE IS HEATED A GROUND SOLVED SOLVED SOLVED. | AUTHURITY STANDARD GRADING RULES FOR CANADIAN LUMBER". WOOD FRAME CONSTRUCTION SHALL CONFORM TO THE D.B.C. 2024- SECTION 9.23. TRUSS TIE DOWNS, JOIST HANGERS, ETC. SHALL CONFORM TO | 9.24.1.1. APPLICATION (1) THIS SECTION APPLIES TO SHEET STEEL STUDS FOR USE IN NON-LOADBEARING EXTERIOR AND INTERIOR WALLS. (2) WHERE | FROM THE BUILDING IN A MANNER THAT WILL PREVENT SO 9.27. GLADDING - ALL CLADDING TO COMPLY WITH OR P. 2024 0.27 |
| DF NOT LESS THAN 0.15MM POLYETHYLENE SHEET CONFORMING TO CAN/CGSB-51.34-M, "VAPOUR BARRIER, POLYETHYLENE SHEET, FOR USE IN BUILDING CONSTRUCTION," SHALL BE INSTALLED AS PART OF AN AIR BARRIER SYSTEM IN ACCORDANCE WITH SUBSECTION 9.25.3. | "ACCEPTANCE CRITERIA FOR JOIST HANGERS AND SIMILAR DEVICES" (THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS) AND SHALL BE A MINIMUM OF 20 GUAGE GALVANIZED STEEL. | CONFORMANCE WITH PART 4. 9.25. HEAT TRANSFER, AIR LEAKAGE AND CONDENSATION CONTROL - ALL AIR BARIER SYSTEMS AND VAPOUR BARRIER AS PER D.B.C. 2024 | 9.27.5. ATTACHEDMNET OF GLADDING 9.27.5.4. ATTACHMENT (1) NAIL OR STAPLE SIZE AND SPACING FOR THE ATTACHM CLADDING AND TRIM TO WOOD FRAMING. FURRING MEMBE |

9.23.2.3. PROTECTION FROM DAMPNESS (1) EXCEPT AS PERMITTED IN SENTENCE 2, WOOD FRAMING MEMBERS THAT ARE NOT PRESSURE-TREATED WITH A WOOD PRESERVATIVE AND (1) ALL WALLS, CEILING AND FLOORS SEPARATING HEATED SPACE FROM THAT ARE SUPPORTED ON CONCRETE IN CONTACT WITH THE GROUND OR UNHEATED SPACE, THE EXTERIOR AIR OR THE EXTERIOR SOIL SHALL BE FILL SHALL BE SEPARATED FROM THE CONCRETE BY NOT LESS THAN 0.05MM POLYETHYLENE FILM OR TYPE S ROLL ROOFING. (2) DAMPROOFING MATERIAL REFERRED TO IN SENTENCE (1) IS NOT REQUIRED WHERE THE WOOD MEMBER IS AT LEAST 6" ABOVE THE GROUND

(I) SUFFICIENT THERMAL INSULATION CONFORMING TO EQUAL TO D.60KPA. SUBSECTION 9.25.2. (II) AN AIR BARRIER SYSTEM CONFORMING TO 9.25.3.2., AND (III) A VAPOUR BARRIER CONFORMING TO SUBSECTION 9.25.4. AND 9.28.1.4. CLEARANCE OVER GROUND LEVEL (B) CONSTRUCTION IN SUCH A WAY THAT THE PROPERTIES AND RELATIVE (1) STUCCO SHALL BE NOT LESS THAN 8" ABOVE FINISHED POSITION OF ALL MATERIAL CONFORM TO SUBSECTION 9.25.5.

9.25.

9.25.2.1. APPLICATION

(A) PROVIDED WITH

| 9.25.2.1. REQUIRED INSULATION (1) ALL WALLS, CEILING AND FLOOR SEPARATING HEATED SPACE FROM UNHEATED SPACE, THE EXTERIOR AIR OR THE EXTERIOR SOIL SHALL BE PROVIDED WITH SUFFICIENT THERMAL INSULATION TO PREVENT MOISTURE CONDENSATION ON THEIR ROOM SIDE DURING THE WINTER AND TO ENSURE COMFORTABLE CONDITIONS FOR THE OCCUPANTS. | 9.28.6.1. LOW TEMPERATURE CONDITIONS (1) THE BASE FOR STUGGO SHALL BE MAINTAINED ABOVE FREEZING. (2) STUGGO SHALL BE MAINTAINED AT A TEMPERATURE OF NOT LESS THAN 10°C DURING APPLICATION AND FAR NOT LESS THAN 48H AFTERWARDS. | |
|---|---|--|
| 9.25.2.2. INSULATION MATERIALS (1) EXCEPT AS REQUIRED IN SENTENCE (2), THERMAL INSULATION SHALL CONFORM TO THE REQUIREMENTS OF (A)-(I) (2) THE FLAME-SPREAD RATING REQUIREMENTS CONTAINED IN THE STANDARDS LISTED IN SENTENCE (1) SHALL NOT APPLY. | 9.28.6.2. NUMBER OF COATS AND TOTAL THICKNESS (1) STUCCO SHALL BE APPLIED WITH AT LEAST 2 BASE COATS AND DNE FINISH COAT, PROVIDING A TOTAL THICKNESS OF NOT LESS THAN 1/2", MEASURED FROM THE FACE OF THE LATH OR FACE OF THE MASONRY WHERE NO LATH IS USED. 9.29. INTERIOR WALL AND CELLING FINISHES | CONSTRUCTION N |
| 9.25.2.3. INSULATION OF THERMAL INSULATION (1) INSULATION SHALL BE INSTALLED SO THAT THERE IS A REASONABLY UNIFORM INSULATING VALUE OVER THE ENTIRE FACE OF THE INSULATING | 9.29.2. WATERPROOF WALL FINISH 9.29.2.1. WHERE REQUIRED (1) WATERPROOF FINISH SHALL BE PROVIDED TO A HEIGHT OF NOT LESS | |
| AREA. (2) INSULATION SHALL BE APPLIED TO THE FULL WIDTH AND LENGTH OF THE SPACE BETWEEN FURRING OR FRAMING. (3) EXCEPT WHERE THE INSULATION PROVIDES THE PRINCIPAL RESISTANCE TO AIR LEAKAGE, THERMAL INSULATION SHALL BE | THAN (A) 5 ¹ -11" ABOVE THE FLOOR IN SHOWER STALLS, (B) 3 ¹ -11" ABOVE THE RIMS OF BATHTUBS, EQUIPPED WITH SHOWERS, AND (C) 16" ABOVE THE RIMS OF BATHTUBS NOT EQUIPPED WITH SHOWERS. | |
| INSTALLED SO THAT AT LEAST ONE FACE IS IN FULL AND CONTINUOUS CONTACT WITH AN ELEMENT WITH LOW AIR PERMEANCE. (4) INSULATION SHALL BE INSTALLED OVER THE FULL HEIGHT OF FOUNDATION WALLS ENCLOSING A BASEMENT OR HEATED CRAWL SPACE. (5) INSULATION AROUND CONCRETE SLAB-ON-GROUND SHALL BE | 9.29.2.2. MATERIALS (1) WATERPROOF FINISH SHALL CONSIST OF CERAMIC, PLASTIC OR METAL TILE, SHEET VINYL, TEMPERED HARDBOARD, LAMINATED THERMOSETTING DECORATIVE SHEETS OR LINOLEUM. | |
| LOCATED SO THAT HEAT FROM THE BUILDING IS NOT RESTRICTED FROM REACHING THE GROUND BENEATH THE PERIMETER, WHERE EXTERIOR WALLS ARE NOT SUPPORTED BY FOOTINGS EXTENDING BELOW FRONT LEVEL. | 9.31. PLUMBING 9.31.4. REQUIRED FACILITIES 9.31.4.1. REQUIRED FIXTURES (1) A KITCHEN SINK, LAVATORY, BATHTUB OR SHOWER, AND WATER CLOSET SHALL BE PROVIDED FOR EVERY DWELLING UNIT WHERE A | |
| MECHANICAL DAMAGE, IT SHALL BE PROTECTED WITH NOT LESS THAN (A) 1/4" PRESERVATION-TREATED PLYWOOD, OR (B) 1/2" CEMENT PARGING ON WIRE LATH APPLIED TO THE EXPOSED FACE AND EDGE. (7) EXCEPT AS PERMITTED IN SENTENCE (7.1) INSULATION AND VAPOUR BARRIER LOCATED IN AREAS WHERE IT MAY BE SUBJECT TO MECHANICAL | WATER DISTRIBUTION SYSTEM IS AVAILABLE. 9.31.4.1A. LAUNDRY FIXTURES (1) LAUNDRY FACILITIES OR A SPACE FOR LAUNDRY FACILITIES SHALL BE PROVIDED IN EVERY DWELLING UNIT OR GROUPED ELSEWHERE IN THE BUILDING IN A LOCATION CONVENIENTLY ACCESSIBLE TO OCCUPANTS OF | |
| DAMAGE SHALL BE PROTECTED BY A COVERING SUCH AS GYPSUM BOARD, PLYWODD, PARTICLEBOARD, DSB, WAFERBOARD OR HARDBOARD. (7.1) IN UNFINISHED BASEMENTS, THE PROTECTION REQUIRED IN SENTENCE (7) NEED NOT BE PROVIDED FOR MINERAL FIBRE INSULATION. | EVERY DWELLING UNIT. 9.32. VENTILATION 9.32.3.9A. LOCATION OF CARBON MONOXIDE ALARMS | |
| PROVIDED IT IS COVERED WITH A MEMBRANE WHICH COMPLIES WITH THE REQUIREMENT OF SECTION 9.25.4. 9.25.2.4.(1) EXCEPT AS PROVIDED IN SENTENCES (2) TO (6), LOOSE-FILL | (1) A CARBON MONOXIDE ALARM SHALL BE INSTALLED IN A SUITE OF RESIDENTIAL OCCUPANCY WHERE (A) A FUEL-BURNING APPLIANCE OR A FLUE IS INSTALLED IN THE SUITE, (B) A FORCED-AIR FUEL BURNING APPLIANCE PROVIDES HEATED AIR | |
| INSULATION SHALL BE USED ON HORIZONTAL SURFACES ONLY (2) WHERE LOOSE-FILL INSULATION IS INSTALLED IN AN UNCONFINED SLOPED SPACE, SUCH AS AN ATTIC SPACE OVER A SLOPED CEILING, THE SUPPORTING SLOPE SHALL NOT BE MORE THAN (A) 4.5 IN 12 FOR MINERAL FIBRE OR CELLULOSE FIBRE INSULATION, AND (B) 2.5 IN 12 FOR | DIRECTLY TO THE SUITE, (C) A FUEL-BURNING APPLIANCE OF A FLUE IS LOCATED IN A ROOM, SUITE OR AREA THAT SHARES A COMMON WALL OR FLOOR OR CEILING ASSEMBLY WITH THE SUITE, OR (D) A STORAGE GARAGE SHARES A COMMON WALL OR FLOOR OR CEILING | |
| OTHER TYPES OF INSULATION. (6) WHERE SOFFIT VENTING IS USED, MEASURES SHALL BE TAKEN (A) TO PREVENT LODSE-FILL INSULATION FROM BLOCKING THE SOFFIT VENTS AND TO MAINTAIN AN OPEN PATH FOR CIRCULATION OF AIR FROM THE | ASSEMBLY WITH THE SUITE. (2) WHERE A CARBON MONOXIDE ALARM IS REQUIRED BY SENTENCE (1) TO BE INSTALLED IN A SUITE OF RESIDENTIAL OCCUPANCY, OTHER THAN A SUITE THAT CONSISTS OF A COMBINED LIVING AND SLEEPING AREA, A | |
| VENTS INTO THE ATTIC OR ROOF SPACE, AND (B) TO MINIMIZE AIRFLOW INTO THE INSULATION NEAR THE SOFFIT VENTS TO MAINTAIN THE THERMAL PERFORMANGE OF THE MATERIAL. 9.26.2.5.(1) SPRAY-APPLIED POLYURETHANE INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH CAN/ULC-S705.2. "STANDARD FOR | CARBON MONOXIDE ALARM SHALL BE INSTALLED (A) ADJACENT TO EACH SLEEPING ROOM IN THE SUITE, AND (B) ON EACH STOREY WITHOUT A SLEEPING ROOM IN THE SUITE. (3) WHERE A CARBON MONOXIDE ALARM IS REQUIRED BY SENTENCE (1) TO BE INSTALLED IN A SUITE OF RESIDENTIAL OCCUPANCY THAT | MUNICIPALITY: |
| THERMAL INSULATION -SPRAY APPLIED RIGID POLYURETHANE FOAM, MEDIUM DENSITY-APPLICATION." 9.25.3. AIR BARRIER SYSTEMS | CONSISTS OF A COMBINED LIVING AND SLEEPING AREA, A CARBON MONOXIDE ALARM SHALL BE INSTALLED IN THE COMBINED LIVING AND SLEEPING AREA. (4) IN ADDITION, A CARBON MONOXIDE ALARM SHALL BE INSTALLED IN | MUNICIPALITY C HASTINGS HIGHLA |
| 9.25.3.1. REQUIRED BARRIER TO AIR LEAKAGE (1) WALL, CEILING AND FLOOR ASSEMBLIES THAT SEPARATE CONDITIONED SPACE FROM UNCONDITIONED SPACE OR FROM THE GROUND SHALL BE CONSTRUCTED SO AS TO INCLUDE AN AIR BARRIER SYSTEM THAT WILL PROVIDE A CONTINUOUS BARRIER TO AIR LEAKAGE (A) | EACH SLEEPING ROOM WITHIN THE SUITE WHERE THE SLEEPING ROOM (A) CONTAINS A FUEL-BURNING APPLIANCE OR A FLUE, OR (B) SHARES A COMMON WALL OR FLOOR OR CEILING ASSEMBLY (I) WITH A ROOM, SUITE OR AREA THAT IS LOCATED OUTSIDE THE SUITE AND CONTAINS A FUEL-BURNING APPLIANCE OR A | 33011 HWY 62N, P.O. BOX MAYNOOTH ON, KOL 25 PHONE: 613-338-2811 |
| FROM THE INTERIOR OF THE BUILDING INTO WALL, FLOOR, ATTIC OR ROOF SPACES SUFFICIENT TO PREVENT EXCESSIVE MOISTURE CONDENSATION IN SUCH SPACES DURING THE WINTER, AND (B) FROM THE EXTERIOR OR THE GROUND INWARD SUFFICIENT TO (I) PREVENT MOISTURE | FLUE, II) WITH A STORAGE GARAGE, OR (III) THAT IS ADJACENT TO AN ATTIC OR CRAWL SPACE TO WHICH THE STORAGE GARAGE IS ALSO ADJACENT. (5) ADDRAM MONISYIDE ALARMO SHALL DE INSTALLED IN BURLID | CONSTRUCTED BY: |
| COMFORTABLE CONDITIONS FOR THE OCCUPANTS, AND (III) MINIMIZE THE INGRESS OF SOIL GAS. (2) THE CONTINUITY OF THE AIR BARRIER SYSTEM SHALL EXTEND THROUGHOUT THE BASEMENT. | CORRIDORS SERVING SUITES OF RESIDENTIAL OCCUPANCY WHERE THE CORRIDOR IS DIRECTLY HEATED BY A FORCED-AIR FUEL-BURNING APPLIANCE. | |
| 9.25.3. AIR BARRIER SYSTEMS 9.25.3.2. AIR BARRIER SYSTEM PROPERTIES (2) WHERE POLYETHYLENE SHEET IS USED TO PROVIDE THE | 9.32.3.9C. INSTALLATION AND CONFORMANCE TO STANDARDS (1) THE CARBON MONOXIDE ALARMS REQUIRED BY ARTICLE 9.32.3.9A. AND 9.32.3.9B SHALL (A) EXCEPT AS PERMITTED IN SENTENCE (2), BE PERMANENTLY SONNECTED TO AN ELECTRICAL CIRCUIT AND SHALL HAVE NO. | |
| CAN/CGDB-51.34-M, " VAPOUR BARRIER, POLYETHYLENE SHEET FOR USE IN BUILDING CONSTRUCTION." | DISCONNECTED TO AN ELECTRICAL DIRUGHT AND SHALL HAVE NO DISCONNECT SWITCH BETWEEN THE OVERCURRENT DEVICE AND THE CARBON MONOXIDE ALARM, (B) INCASE THE REGULAR POWER SUPPLY TO THE CARBON MONOXIDE ALARM IS INTERRUPTED. BE PROVIDED WITH A BATTERY AS AN | |
| 9.25.4.1. REQUIRED BARRIER TO VAPOUR DIFFUSION (1) THERMALLY INSULATED WALL, CEILING AND FLOOR ASSEMBLIES SHALL BE CONSTRUCTED WITH A VAPOUR BARRIER SO AS TO PROVIDE A BARRIER TO DIFFUSION OF WATER VAPOUR FROM THE INTERIOR INTO WALL SPACES, FLOOR SPACES, OR ATTIC OR ROOF SPACES. | ALTERNATIVE POWER SOURGE THAT CAN CONTINUE TO PROVIDE POWER TO THE CARBON MONOXIDE ALARM FOR A PERIOD OF NOT LESS THAN 8H IN THE STANDBY CONDITION, FOLLOWED BY THE OPERATION OF THE CARBON MONOXIDE ALARM FOR AN ALARM SIGNAL FOR AT LEAST 12H, (C) BE WIRED SO THAT | dirard |
| 9.25.4.3. INSTALLATION OF VAPOUR BARRIERS (1) PRODUCTS INSTALLED TO FUNCTION AS THE VAPOUR BARRIER SHALL PROTECT THE WARM SIDE OF THE WALL, CEILING AND FLOOR | (I) ACTIVATION OF ONE CARBON MONOXIDE ALARM WITHIN A SUITE OF RESIDENTIAL OCCUPANCY WILL ACTIVATE ALL CARBON MONOXIDE ALARMS WITHIN THE SUITE, (II) ACTIVATION OF ONE CARBON MONOXIDE ALARM WITHIN A | ENGINEERING 2478153 ONTARIO INC |
| 9.26. ROOFING 9.26.1.2. REQUIRED PROTECTION (1) ROOFS SHALL BE PROTECTED WITH ROOFING, INCLUDING FLASHING, | HUDSE WITH A SECUNDARY SUITE WILL ACTIVATE ALL CARBON MONOXIDE ALARMS WITHIN THE HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES, AND (III) ACTIVATION OF ONE CARBON MONOXIDE ALARM LOCATED IN A PUBLIC CORPIDER SERVING SUITES OF RESIDENTIAL | 682 РЕЕL SREET Woodstock ON, N4S 1L3 Tel: 1-519-879-6875 |
| INSTALLED SO AS TO (A) EFFECTIVELY SHED WATER, (B) PREVENT THE INGRESS OF WATER AND MOISTURE INTO BUILDING ASSEMBLIES AND OCCUPIED SPACE, AND (C) MINIMIZE THE INGRESS OF WATER DUE TO ICE DAMMING INTO BUILDING ASSEMBLIES. | OCCUPANCY WILL ACTIVATE ALL CARBON MONOXIDE ALARMS WITHIN THE CORRIDOR, (D) BE AUDIBLE WITHIN SLEEPING ROOMS WHEN THE INTERVENING DOORS ARE CLOSED, WHERE LOCATED ADJACENT TO A SLEEPING ROOM | EMAIL: INFO@GIRARDENGINEERING. |
| 9.26.1.4. SOLAR COLLECTOR SYSTEMS (1) A SOLAR COLLECTOR SYSTEM IS PERMITTED TO BE INSTALLED ABOVE ROOFING MATERIALS CONFORMING TO 9.26.2.1.(1) 9.26.2.1.(1) WHERE MATERIALS USED FOR THE PREPARATION OF THE | IN A SUITE OF RESIDENTIAL OCCUPANCY, AND (E) CONFORM TO (I) CAN/CSA-6.19 ^I RESIDENTIAL CARBON MONOXIDE ALARMING DEVICES, ^I OR (II) III. 2034 ^{II} SINGLE AND MULTIPLE STATION CARBON | X |
| SUBSTRATE FOR ROOFING ARE COVERED IN THE SCOPE OF A STANDARD LISTED IN TABLE 9.26.2.1A THEY SHALL CONFORM TO THAT STANDARD. (2) WHERE ROOF MATERIALS ARE COVERED IN THE SCOPE OF A STANDARD LISTED IN TABLE 9.26.2.1B THEY SHALL CONFORM TO THAT | MONOXIDE ALARMS." (3) EXCEPT AS PERMITTED IN SENTENCE (2), CARBON MONOXIDE ALARMS REQUIRED BY ARTICLES 9.32.3.9A. AND 9.32.3.9B. SHALL HAVE VISUAL SIGNALING COMPONENT CONFORMING TO THE REQUIREMENTS IN 18.5.3. | M. K. During Pour Noce |
| 9.26.3. SLOPE OF ROOF SURFACES 9.26.3.1. SLOPE (1) EXCEPT AS PROVIDED IN SENTENCE (2) AND (3) THE SLOPES ON | OF NFPA 72, "NATIONAL FIRE ALARM SIGNALING CODE." (5) THE VISUAL SIGNALING COMPONENT NEED NOT (A) BE INTEGRATED WITH THE CARBON MONOXIDE ALARM PROVIDED IT IS INTERCONNECTED TO IT, (B) BE ON BATTERY BACKUP, OR (C) HAVE SYNCHPONIZED ELASH BATES, WHEN INSTALLED IN A DWELLING LINIT | NOTE: THESE DRAWINGS ARE THE PROPERTY OF THE ENGI NOT VALID UNLESS SEALED WITH RED INK. THESE DRAWINI BE REPRODUCED UNLESS AUTHORIZED BY THE ENG |
| WHICH ROOF COVERINGS MAY BE APPLIED SHALL CONFORM TO TABLE 9.26.3.1. (2) ASPHALT AND GRAVEL OR COAL TAR AND GRAVEL ROOFS MY BE CONSTRUCTED WITH LOWER SLOPES THAN REQUIRED IN SENTENCE (1) | (6) CARBON MONOXIDE ALARMS SHALL BE INSTALLED (A) AT MANUFACTURER'S RECOMMENDED HEIGHT, OR (B) ON OR NEAR THE CEILING. | DESIGNED FOR: |
| THE LOWEST POINTS ON THE ROOFS. (3) PROFILED METAL ROOF CLADDING SYSTEMS SPECIFICALLY DESIGNED FOR LOW-SLOPE APPLICATIONS ARE PERMITTED TO BE INSTALLED WITH LOWER SLOPES THAN REQUIRED IN SENTENCE (1). PROVIDED THEY ARE | 9.33. HEATING AND AIR-CONDITIONING 9.33.1.1. APPLICATION (3) AIR DUCT DISTRIBUTION SYSTEMS SERVING ONE OF THE DWELLING UNITS IN A HOUSE WITH A SECONDARY SUITE SHALL NOT BE DIRECTLY INTERCONNECTED WITH OTHER PARTS OF THE HOUSE. | DALE & TASHA SCHEERHORN |
| INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS. -ALL FLASHING AT INTERSECTIONS TO COMPLY WITH D.B.C. 2024 9.26.4. | 9.33.6. AIR DUCT SYSTEMS 9.33.6.4. COVERINGS, LININGS AND INSULATION (5) EXCEPT AS PERMITTED BY SENTENCES (5) AND (6), FOAMED PLASTIC | 227 WEST DIAMOND LAKE R HIGHLAND GROVE, ONTARIO, KO TEL: 519-535-0658 |
| 9.26.18. ROOF DRAINS AND DOWNSPOUT 9.26.18.2. DOWNSPOUTS | (6) FOAM PLASTIC INSULATION CONFORMING TO ARTICLE 9.25.2.2. IS PERMITTED TO BE USED TO INSULATE A GALVANIZED STEEL, STAINLESS | EMAIL: DALEBHSERVICES@GMAIL.C |
| SEWER, EXTENSIONS SHALL BE PROVIDED TO CARY RAINWATER AWAY FROM THE BUILDING IN A MANNER THAT WILL PREVENT SOIL EROSION. 9.27. CLADDING - ALL CLADDING TO COMPLY WITH O.B.C. 2024 9.27. | (A) THE FOAMED PLASTIC INSULATION APPLIED TO SUPPLY DUCTWORK IS NOT LESS THAN \Im_M FROM THE FURNACE BONNET, (B) THE TEMPERATURE WITHIN THE DUCTWORK WHERE THE INSULATION INSTALLED IS NOT GREATER THAN 50°C, | PROPOSED COTT |
| 9.27.5. ATTACHEDMNET OF GLADDING 9.27.5.4. ATTACHMENT (1) NAIL OR STAPLE SIZE AND SPACING FOR THE ATTACHMENT OF GLADDING AND TRIM TO WOOD FRAMING, FURRING MEMBERS OR | (C) DUGT JUINTS ARE TAPED WITH A PRODUCT CONFORMING TO SENTENCE 9.33.6.3.(1), (D) RETURN AIR PLENUMS ARE SEPARATED FROM THE FOAMED PLASTIC INSULATION, AND (E) THE FOAMED PLASTIC INSULATION IS PROTECTED IN ACCORDANCE | GENERAL NOTE |
| (2) SCREW SIZE AND SPACING FOR THE ATTACHMENT OF CLADDING, TRIM AND FURRING MEMBERS TO THE WEB FASTENING STRIPS OF FLAT WALL INSULATING FORM (ICF) UNITS SHALL CONFORM TO TABLE 9.27.5.4B | WITH 9.10.17.10 (7) FOAMED PLASTIC INSULATION IS PERMITTED TO BE USED IN A CEILING SPACE THAT ACTS AS RETURN AIR PLENUM PROVIDED THE FOAMED PLASTIC INSULATION IS PROTECTED FROM EXPOSURE TO THE FORMED | SCALE: 1/4" = 1 ^L 0" |
| WHERE THE THIN-SU HUURLY WIND PRESSURE (HWP) IS LESS THAN OR EQUAL TO D.60KPA. 9.28. STUCCO 9.28.1.4. CIFARANCE OVER BROUND LEVEL | ACCORDANCE WITH 3.1.5.14.(4). 9.33.6.7. CONSTRUCTION OF DUCTS AND PLENUMS | DATE: APRIL 14, 2025 DF DRAWING BY: T. STREATCH |
| (1) STUCCO SHALL BE NOT LESS THAN 8" ABOVE FINISHED GROUND LEVEL EXCEPT WHEN IT IS APPLIED OVER CONGRETE OR MASONRY. | INTERCONNECTED WITH OTHER PARTS OF THE DWELLING UNIT. | PROJECT NO: 24-286 |

TION NORTH

ALITY OF HIGHLANDS , P.O. BOX 130, ON, KOL 250 3-338-2811

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PERTY OF THE ENGINEER AND ARE D INK. THESE DRAWINGS ARE NOT TO THORIZED BY THE ENGINEER.

TASHA RHORN IND LAKE ROAD INTARIO, KOL ZAO 535-0658 RVICES@GMAIL.COM

COTTAGE

. NOTES

DRAWING NO:

9.33.6.13. RETURN-AIR SYSTEM (7.1) RETURN-AIR FROM A DWELLING UNIT SHALL NOT BE RECIRCULATED TO ANY OTHER DWELLING UNIT.

9.39. PARK MODEL TRAILERS 9.392.1. GENERAL

(1) EXCEPT AS PROVIDED IN SUBSECTION 9.39.3., A MANUFACTURED BUILDING USED OR INTENDED TO BE USED AS A SEASONAL RECREATION BUILDING OF RECREATION BUILDING OF RESIDENTIAL OCCUPANCY IS DEEMED TO COMPLY WITH THE CODE IF IT IS DESIGNED AND CONSTRUCTION IN CONFORMANCE WITH CAN/CSA-Z241, PARK MODEL TRAILERS."

9.38.3.3. FOUNDATIONS AND ANCHORAGE 1) BUILDINGS DESCRIBED IN ARTICLE 9.39.1.1. SHALL BE SUPPORTED AND ANCHORED IN CONFORMANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS OR AS OTHERWISE NOTED.

9.40. REINFORCED CONCRETE SLABS -SLAB CONSTRUCTION TO BE INSTALLED AS PER CODE UNLESS OTHERWISE NOTED.

9.40.1.4. SLAB CONSTRUCTION

(1) CONCRETE SHALL BE CAST AGAINST FORMWORK IN ACCORDANCE WITH CSA A23.1, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION". (2) THE SLAB SHALL NO BE LESS THAN 5" THICK

(3) THE SLAB SHALL BE REINFORCED WITH 10M BARS SPACED NOT MORE THAN 8^{II} O.C., IN EACH DIRECTION, WITH 30MM CLEAR COVER FROM THE BOTTOM OF THE SLAB TO THE FIRST LAYER OF BARS, AND THE SECON LAYER OF BARS LAID DIRECTLY ON TOP OF THE LOWER LAYER IN THE OPPOSITE DIRECTION. (4) THE SLAB SHALL BEAR NOT LESS THAN 3" ON THE SUPPORTING

FOUNDATION WALLS AND BE ANCHORED TO THE WALLS WITH 24"x24" 10M BENT DOWELS SPACED NOT MORE THAN 24" D.C. (5) EXPOSED SLABS SHALL BE SLOPED TO EFFECTIVELY SHED WATER AWAY FROM THE EXTERIOR WALL.

1. PROVIDE HANDRAIL ON STAIRS IF MORE THAN THREE RISERS - 2'-10" MIN. OR 3'-6" MAX. HIGH

AXONOMETRIC

POST CONNECTION DETAIL (EB-4) EXTERIOR CONNECTION: POST BOLTED TO FLOOR JOISTS SCALE: N.T.S.

1. DECKING IS OMITTED FROM THE PLAN VIEW AND THE AXONOMETRIC VIEW FOR CLARITY

- 2. 1 1/2" POST PROJECTION BELOW FLOOR JOISTS IS NOT REQUIRED WHERE THE MAX. SPACING BETWEEN POSTS DOES NOT EXCEED 3'-11" - JOISTS MAY BE SPACED AT 16" OR 24" D.C.
- 3. WHERE FLOOR JOISTS ARE SPACED AT 24" D.C., DECKING SHALL HAVE A MINIMUM THICKNESS OF 1 1/2" AND SHALL BE FASTENED TO THE FLOOR JOISTS W/ (2) 3" NAILS 4. MAX SPACING BETWEEN POSTS 4-11" USING DOUGLAS FIR LARCH, HEM-FIR, OR SPRUCE PINE FIR AND
- USING NORTHERN SPECIES
- 5. REFER TO D.B.C. SECTION SB-7 GUARD DETAILS

ELEVATION C-C

- FLOOR JOIST

POST CONNECTION DETAIL (EB-6) EXTERIOR CONNECTION: POST FASTENED TO FLOOR, GUARD PARALLEL

- RIM JOIST

TO FLOOR JOISTS

ELEVATION B-B

SCALE: N.T.S.

- ALUSE ANY OF THE CONNECTION DETAILS SHOWN ON DETAILS EB-1 TO EB-5 AT LOCATION 'A'. CONNECTION DETAIL EB-4 IS SHOWN IN THIS DETAIL AS AN EXAMPLE 2. MAXIMUM SPACING BETWEEN POSTS IS DETERMINED FROM CONNECTION DETAIL USED AT LOCATION 'A' 3. DECKING IS OMITTED FROM THE PLAN VIEW AND THE AXONOMETRIC VIEW FOR CLARITY
- 4. BLOCKING SHALL BE NOT LESS THAN A 2X8 5. REFER TO O.B.C. SECTION SB-7 GUARD DETAILS

FRONT ELEVATION

PICKET CONNECTION DETAIL (EC-1) EXTERIOR CONNECTION: INFILL PICKET NAILED TO ENDCAP / ENDCAP SCREWED TO RAIL

SECTION A-A

SCALE: N.T.S.

1. FASTEN EACH END OF EACH PICKET TO ENDCAPS WITH (2) 2" NAILS 2. FASTEN ENDCAPS TO RAILS WITH #7 2" SCREWS @ 12" D.C. 3. PICKETS TO BE MIN. 1 1/2"x1 1/2"

STEPPED FOOTING DETAIL SCALE: N.T.S

