

780 CM: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

CONCRETE E FOUNDATION

- A single-family residence has an 8 foot by 8 inch high, 8 inch thick, reinforced concrete foundation. The soil type is SM-SC. If the **unbalanced backfill** height is 8 feet, what vertical reinforcement size and spacing will be required? **#6 at 32 inches on center** (IRC pg 103)
- Minimum of masonry foundation wall thickness on maximum wall 8 feet height and maximum **unbalanced backfill** 4 feet height soil load 45 **IRC pg 103**
- Anchor bolts shall extend a minimum of 7 inches into concrete. If an anchor bolt is embedded 6 inches into concrete, needs to penetrate 1 inch more. **IRC 403.1.6 pg 89**
- What is the minimum compressive strength of concrete after **28 days**? **2500 psi IRC 404.1.3.1 pg 107 ver tambem tabela pg 80**
- The compressive strength of concrete used in building and other structure is measured by pound per square? **Inches**
- The maximum permitted slope for the bottom surface of footings shall be? **1:10 (one vertical in ten units horizontal) IRC 403.1.5 pag 89**
- What is the required **site grading** around a foundation wall?. **1:20, for a min of 10 feet 5% slope IBC 1804.4 pag 419**
- A drainage system is not required for a foundation of a single family home in which of the following cases: when installed on well drained ground or sand gravel mixture soil. **IBC pg 119 exception**
- Drains shall be provided around all concrete and masonry foundations that retain earth and enclose habitable or usable space. Gravel or crushed stone drains shall extend at least **1 foot** beyond the outside edge of the footing and **6 inches** above the top of the footing. * **IRC R405.1 page 119**
- Concrete and masonry foundation walls shall extend above the finish grade adjacent to the foundation at all points a minimum of 4". IRC 404.1.6 page 116
- Concrete foundation shall be protected from freezing during depositing and for a period of? **5 days IBC pag 431 1808.8.4**
- What is the minimum thickness of Portland cement mortar that must be applied from the footing to the finish grade of an exterior foundation wall for damp proofing?? **3/8 IBC 1805.2.2.1 pag 421**
- What kind of vapor retarder shall be placed between concrete floor slab and the base course? **6 mil polyethylene or approval vapor retarder. IRC 506.23 pg 149**
- What is the maximum spacing for control joints in a basement? **30 feet GK**
- To what thickness must sand be placed under a concrete basement slab when the slab is

below grade?
4" (IRC page 149 S 506.2.2)

- Shotcrete shall be kept continuously moist for after concreting is complete. **24 hours IBC 1908.9.1 pag 451**
- During the curing periods specified herein, shotcrete shall be maintained above degrees and in a moist condition. **40° IBC 1908.9 Pag 451**

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WALL

- Mortar for use with adhered masonry veneer shall conform to ASTM C270 for: Type N or S- IRC pg 245 602.2.10
- Joint reinforcement embedded in horizontal mortar joints shall not have less than: **R-5/8 IRC 606.3.3 page 246**
- Wire wall tie used in solid masonry units shall be embedded at least inch(es) into the mortar bed? **1 ½ inches – 606 3.3 page 246 #3**
- Glass unit masonry shall be laid with type S or N mortar in a single-family, Mortar may be used up to **1 1/2** hours after initial mixing, after which it shall be discarded. **IRC 607.8 page 257**
- A masonry **veneer lintel** shall have a length of bearing of not less than inches? **4" IRC 703.8.3 page 357**
- A 3x3x¼ steel lintel is used for opening in a masonry veneer wall, what is the maximum span if supporting one story above? **4' - 6" –IRC 703.831 page 357 Tabela**
- **STUD. Notching.** Any stud in an exterior wall or bearing partition shall be permitted to be cut or notched to a depth not exceeding 25 percent of its width. **IRC 602.6 page 166**
- **.Drilling.** Any stud shall be permitted to be bored or drilled, provided that the diameter of the resulting hole is not more than 60 percent of the stud width, the edge of the hole is not more than 5/8 inch to the edge of the stud, and the hole is not located in the same section... **IRC 602.6 page 166**
- What Are the Spacing Requirements for Fasteners to Corner Stud Framing For A Steel Stud Wall? * **2 #8 Screws At 24" On Center IRC 603.4 pg 230 table.**
- What Is the Proper Way to Fastening Stud to Top Or Bottom Plate? * **4-8d Common Nails Toe Nailed IRC602.3(1) #16 Page 159 Fastening**
- How would you attach a roof rafter to a ridge, valley or hip rafter to minimum 2" ridge beam? **4- 16d nails toe nailed or 3-16d end pg 158 IRC 602.3.1 "pregando"**

- **How to attach Stud to stud (not at braced wall panels) IRC page 158 coluna #8**
- **How to fastening 1” brace to each stud and plate: 3-8 face nail IRC pag 159**
- Wood Collar Ties Shall Be Faced Nailed to Rafters with A Minimum of How Many Nails and What Size? * **3-10d Common Nails Ver tabela IBC page 483 or IRC page 158 also read IRC 802.3.1**

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FLOOR

- Load bearing sawm lumber shall be identified by the grade mark of a lumber grading or inspection agency that has been approved by an accreditation body that complies with **DOC PS 20 IBC page 118 ou IRC pg 123**
- What is the minimum fastener required for a steel floor joist track to a load-bearing wall? **2 No. 8 screws – IRC 505.3.1 page 137-138 Tabela**
- **Bearing.** The ends of each joist, beam or girder shall have not less than **1 and 1/2** inches of bearing on wood or metal and not less **than 3"** on masonry or concrete. IRC 502.6 pg 130.
- Joists framing from opposite sides over a **bearing** support shall lap not less than **3 inches.** IRC 502.6.1 pg 130
- **Sawm lumber,** Notches in solid lumber joists, rafters and beams shall not exceed 1/6 of the depth of the member, shall not be longer than 1/3 of the depth of the member. IRC 502.8.1 pg 130
- **Holes** shall not be closer than 2 inches to the top or bottom of the member, or to any other hole located in the member. IRC 502.8.1 pg 130
- **Joist framing.** Joists framing into the side of a wood girder shall be supported by approved framing anchors or on ledger strips not less than nominal 2 inches by 2 inches. IRC 502.6.2 pg 130
- **Floor Sheating:** IRC pg 133
- Floor framing. **Wood beams and girders shall be of sawn or glued-laminated** timber and shall be not less than 6 inches nominal in width and not less than 10 inches nominal in depth. **Framed sawn or glued-laminated** timber arches, which spring from the floor line and support floor loads, shall be not less than 8 inches nominal in any dimension. Framed timber trusses supporting floor loads shall have members of not less than 8 inches nominal in any dimension. **IBC pag 114 Type IV**
- The Massachusetts International Residential Code for 1 & 2 family dwellings addresses the construction of cold- formed steel floor framing. What is the maximum width parallel to the joist span? **40 feet for lenght and 60 feet for width – IRC**

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WOOD

- How Would You Attach a Rim Joist To A Top Plate? * **8 d at 6 o.c. Toe IRC pg 159 #22**

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- What is the maximum nail spacing used for attaching hardboard lap siding directly to exterior studs? **16 o.c. IBC page 513 Table 2308.6.3(5)** (wall bracing methods)
- What is the minimum size of beams and girders in Type 4 construction? **6" wide by 10" deep (types 4 construction=heavy timber)**
- Wood girders that are closer than 12 inches to the exposed ground in crawl spaces or unexcavated areas located within the perimeter of the building foundation shall be of naturally durable or preservative treated wood. IBC pg 487 2304.12.1.1
- Wood structural panel wall **sheathing** used to resist wind pressures. Olhar na tabela IBC table 2304.6.1 pagina 478, 6d common, 1.5, 24/16, 7/16.....(also pg 513)
- What is the maximum allowable span of ½ inch plywood roof **sheathing** which has a panel span rating of 24/0, without edge support? IBC pag 479
- Pressure process, for wood products impregnated with chemicals by a pressure process, the process shall be performed in closed vessels under pressures not less than 50 pounds per square inch gauge. IBC 2303.2.1 pg 475
- Prefabricated wood I Joist established in accordance with ASTM D5055 - IBC 2303.1.2 pg 474
- TPI 1- Truss Plate Institute (Trusses Plate Instituto) Establishes minimum requirement for the design and construction of metal plate connected wood trusses. IBC pg 477

Moisture Content

Moisture content. Where preservative **treated wood** is used in enclosed locations where drying in service cannot readily occur, such wood shall be at a moisture content of 19% or less before being covered with insulation, interior wall finish, floor covering or other materials. IBC 2303.1.9.2 pg 475

Moisture content. Fire-retardant-treated wood shall be dried to a moisture content of 19% or less for lumber and 15% or less for wood structural panels before use. IBC 2303.2.8

Interior fire-retardant treated wood shall have moisture content of not over 28%percent at 92% of relative humidity.IBC 2303.2.7 pg 476

Fire-retardant-treated wood. Fire-retardant-treatedwood is any wood product which, when impregnated with chemicals by a pressure process of listed flame spread index **of 25** or less and show no evidence of significant progressive combustion. IBC 2303.2 pag 475

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ROOF / ASPHALT SHINGLES

- In areas where there has been a history of ice forming along the eaves, causing back up of water in asphalt shingles, an ice barrier must be used to extend from the lowest edges of all roof surfaces to a point at least inches. Inside the exterior wall line of a building. **24”- IBC 1507 9.4 page 345**
- Taper sawn shakes of Southern yellow pine. **Olhar no IBC page 345 1507.9.8**
- Openings in roof and ceiling framing shall be framed with header and trimmer joist. The joist span shall not exceed how many feet before the header and trimmer joists must be doubled. **4’ – IRC 802.9 pg 390**
- What is the height to the top of a 52 feet wide roof with 6:12 slope? **Divide 52 / 2 = 26 x 6 = 156 / 12 = 13**
- Double underlayment is required for an asphalt shingle application, where the roof has a slope of **minimum? 2:12 IBC 1507.2.8 pg 337**
- Class C roof covering can be used in all of the following construction types **except? Olhar no livro– IBC page 335 So Pode ser usado no Type IIB, IIIB e no VB.**

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- Is Class C roofing material only acceptable for? **Light fire exposure IBC page 336 - 1505.4**
- What is the difference between class A and class C roofing material **Class A is more fire resistant. IBC page 336**
- The use of above-deck thermal insulation shall be permitted provided such insulation is covered with an approved roof covering and passes the tests of NFPA 276 or UL 1256 when tested as an assembly **IBCpage 348**
- Foamed-in-place roof insulation shall be installed in accordance with the manufacturer's instructions. A liquid- applied protective coating that complies shall be applied no less than hours nor more than. _ hours following the applications of the foam. **2 hours no more than 72 hours IBC page 347 -1507.14.3**

- Roofs Shall Be Without Concealed Spaces in Buildings of Type IV Construction. **IBC page 115 Sec 602.4.7 – 602.4**
- Wood shakes application shall be laid at Side lap **1 ½** - **IBC 1507.9.8 page 345.**
- Ceiling joist taper cut. Taper cuts at the ends of the ceiling joist shall not exceed one-fourth (¼) the depth of the member. **R802.7.1.2**
- When using metal flashing, the metal shall be corrosion resistant with a thickness of not less than **0.019 inches (metal flashing= roof, base cap flashing) IRC 905.2.8.1 pg 417**

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FIREPLACE/ CHIMNEY/ VENTS

- All wood beams, joists, studs, or other combustible material shall have a **clearance** of no less than ___ inches from the front face and side not less than ___ inches from the back of a masonry fireplace. **2" and 4" IRC 1001.11 page 430**
- The fireplace **hearth extension** shall extend not less than _ in front of and not less than inches beyond each side of the fireplace opening? **16" and 8" IRC 1001.10 pg 430**
- Where the fireplace opening is greater than 6 square feet the heart extension shall extend not less than ___ in front and not less than ___ side of the fireplace opening? **20" and 12" IRC 1001.10 pg 430**
- What is the required foundation size for a masonry chimney in a single-family house? **12" and 6" IRC 1001.2 pag 427**
- In all cases, a masonry chimney shall extend a minimum of _ inches above the highest point where the chimney passes through the roof? **36 ou 3 feet IRC 1003.9 page 432**
- A portion of masonry chimney located in the interior of a building, or the exterior wall shall have a minimum clearance to combustibles of _ inches? **2" IBC 2111.12 page 461 ou IRC 1003.18 pg 434**
- Clean-out openings shall be provided with inches of the base of each flue within every masonry chimney. **6" IRC 1003.17 Pag 434**
- In a single-family dwelling, masonry chimneys shall be separated from members by a minimum of? **8" IRC 1003.18 Clearance pg 435 IRC**
- What is the minimum required flue size for a rectangular flue in a chimney serving a fireplace for a single-family dwelling with an opening of ?? square inches with a height of 15 feet? **tem uma tabela na pagina 433 do IRC**

- Where are two or more flues located in the same chimney masonry wythes shall be? **Not less than 4"**
IRC page 433 1003.13
- The minimum thickness of a hearth extension shall be. **4" IRC 1001.9 page 429**
- The termination of chimneys or vents equipped with power exhausters shall be located a minimum of 10 feet from the lot line or from adjacent buildings. **IRC M 1804.2.6 pg 497**

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HANDRAIL / STAIRWAY / HEADROOM / CORRIDOR

- When is a handrail required on a set of stairs in a single-family home? **4 steps or more – IRC page 65 R311.7.8**
- In a single-family home, stairways shall not be less than 36" in clear width at all points above the permitted handrail height. Stairway widths shall not be less than **31 and 1/2"** inches where a handrail is installed on 1 side **and 27"** inches where handrails are provided on both sides. **IRC page 63 311.7.1**
- The greatest riser height within any flight of stairs shall not exceed the smallest by more than **3 /8** inch.**IRC page 64 Sec R311.7.5.1**
- Risers shall be vertical or sloped from the underside of the nosing of the tread above at an angle not more than **30 degrees** from the vertical. **IRC page 64 Sec R311.7.5.1**
- What is the minimum headroom requirement in a residence stairway, measured from the sloped plane adjoining the tread nosing or from the floor surface of the landing or platform? **6' 8**
- What is the minimum clearance space between a handrail and a wall? **1½"**
page 65 R311.7.8.2
- What is the maximum height above grade that a deck can be built without a guardrail?
30"-IRC page 66
- Hallway – the width (largura) cannot be less than **36 inches** IRC 311.6
- What is the minimum corridor width required in Group E Occupancy with occupant load of 100?* **72 – IBC page 279 - Tabela**
- In a 5 units building, what is the minimum clear corridor? **44 ver tabela IBC page 279**
- The Illumination Source for Interior Stairs Shall Be Capable of Illuminating the Treads and Landings To A Minimum Level 1Foot Candle. * **1 Foot – IRC page 56 R303.7**

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MEANS OF EGRESS/ EMERGENCY ESCAPE /DOORS

- Emergency escape and rescue openings shall have the bottom of the clear opening not greater than **44 inches** measured from the floor. **IBC 1030.3 page 293**
- Emergency and escape rescue openings shall be not less than **24 inches HEIGHT** and the net **clear width** shall be not less than **20 inches IRC page 62**
- What is the flat trim at the top of the bottom of a window assembly is called? **Stool**
- **Egress Door:** The egress door shall be side-hinged, and shall provide a clear **width** of not less than **32 inches** and the clear **height** of the door opening shall be not less than **78 inches IRC page 63**
- Door handles in a bank shall be installed at a maximum of inches above the finished floor. **48" IBC 1010.1.9.2 pg 263**
- Doors shall swing in the direction of egress travel when. **Serving an occupant load of 50 or more. IBC 1010.1.2.1 page 261**
- In a non-sprinklered B use group occupancy, what is the max length of exit access travel distance. **200 feet IBC 1017.2 pg 277**
- A boiler room/furnace room with an area of over 500 sq feet and any fuel fired equipment over 400,000 BTU is required to have? **Two exit doors IBC 1006.2.21 page 254**

OCCUPANCY / PERMIT / DISTANCE / BUILDING HEIGHT /

- A permit is not required for the construction of a one-story detached accessory when it has a maximum floor area of 200 SqFt, **Shed sem permit so ate 120 SqFt, Deck poded ser ate 200 Sqft se for detached.**
- If a homeowner/contractor does not begin work on a 6-month approved building permit within 6 months upon written request of the owner, one or two extensions may be given for periods not exceeding how many months? **180 days or 6 months Unless an extension is authorized. For the building is 90 days.**
- A homeowner can act as a General contractor and supervise a construction, except supervise what needs to be done per a Design Professional.
- A homeowner of a single family home is exempt from licensing provision and can pull a permit for all the following except for: **a 20x20 manufacture home.**
- Notice To the Building Official of Construction Commencement Is Required a Minimum of How Many Hours Before Work Begins or to ask for an inspection: * **24 Hours or 1 day**
- The Certificate of Occupancy Shall Contain All of The Following Information

Except? **Building max height and area.** IBC ou IRC pg 9

- What Is the Maximum Height and Area of a building of construction Type 5A? * **IBC tabela 504.4 page 98/99 – Height page 98 – Stories page 99**
- To start a construction profession design need: **site plan IBC 107.2.5 page 6**

FIRE PROTECTION / RETARDANT / RESISTANCE / FIRE ALARM/ FIRE WALL

- What is the fire resistance rating for a non-load bearing interior wall for Type IIB construction. **0 hours – pg 113**
- The maximum spacing of **fireblocking** within concealed spaces of exterior architectural elements located in an office should be ?. **20 feet IBC 718.2.6 page 149**
- A manual fire alarm is required in an office building of Group B with an occupant load exceeding. **500 IBC 907.2.2 page 224**
- Where should be located Manual fire alarm boxes? **EXIT IBC 907.4.2.1 page 231**
- What is the distance that a pull box for a manual fire alarm can be placed from an entrance? **5 feet**
- Smoke proof enclosures shall be separated from the remainder of the building by a minimum of? **2 hour fire barrier – IBC 909.20.2 page 241**
- Which of the following materials is not specifically listed by the code as Fire blocking material? **One thickness of ½ particle board IBC 718.2.1 pg 148**
- What is the minimum Fire Extinguisher rating for flammable or combustible liquids with Less than or equal to 0.25 Inches, and maximum travel exit? **minimum extinguisher rating of 5b with a max travel exit of 30 Feet. IBC 906.3.2 page 222**
- Fire walls shall be of any approved noncombustible materials. Except **Buildings of Type V construction. – Ibc Section 706.3, Exc.**
- Openings through a firewall shall not exceed **156 square feet**. The aggregated width of openings at any floor level shall not exceed **25%** percent of the length of the wall, located in a non-sprinkled building? **IBC pg 126 706.8**
- What Best Describes the Characteristics of A 3/8 Sheet of Plywood To Resist Fire On Its Surface? ***Flame Spread – (olhar no IRC page 53 qqr pergunta sobre Flame spread)**
- What is the minimum allowed flame spread index for fire-retardant-treated wood? **25% IBC 2303.2**

Perguntas sobre **Fire Resistance Rating** em GROUPs olhar na tabela IBC 707 3.10 page 127

AREA/ HEIGHT/SHOWER

- In a single-family home what is the minimum square footage that the code considers a room habitable? 70 SqFt IRC page 57
- What is the minimum height of a habitable room? 7 feet.
- Ceilings In Portions of Basements Without Habitable Spaces Shall Have a Minimum Ceiling Height Of From The Finished Floor to Beams, Ducts or Other Obstructions? **6'4" IRC pg57**
- What Is the Minimum Square Footage That a Kitchen Must Be in a Single Family? * **No Minimum**
- Within A Shower Compartment, The Wall Shall Be Finished with A Nonabsorbent Surface to A Minimum Height of **72 Inches IRC pg 57**
 - Shower drain. Shower drains shall have an outlet size of not less than 1 and 1/2 inches in diameter. IRC page 599

TEMPERATURE

- What is the temperature used to calculate heating degrees days in Massachusetts?
R - 65 Dicionario IRC page 18
- **Temperature for human occupancy 68*– IBC 1204.1 page 313**

LIGHT/ VENTILATION/ DUCTS/ SOUND TRANSMISSION

- **Combustion air ducts.** Combustion air intake openings located on the exterior of a building shall have the lowest side of such openings located not less than 12 inches vertically from the adjoining finished ground level. IRC G2407.11 pg 524 numero 8
- **Intake openings.** Mechanical and gravity outdoor air intake openings shall be located not less than 10 feet from any hazardous or noxious contaminant, such as vents, chimneys, plumbing. R303.5.1 page 56
- **Outside opening protection,** Air exhaust and intake openings that terminate outdoors shall be protected with corrosion resistant screens, louvers or grilles having an opening size of not less than ¼ inch and a maximum of ½ inch. IRC R 303.6 pg 56
- What is the minimum distance to the property line that an opening in an exterior wall is Permitted? 3 feet (36 inches) IRC pg 514 Tabela 302.1
- Every room suitable for human habitation shall have **natural light** provided with aggregate glazing area of not less than 8% the floor area of such rooms? **8% – IRC 303.1 page 55**

- For the purpose of determining lighting requirements for an adjoining room at least ½ of the wall is open and provides an opening not less than? **1/10 OR** 25 sqft (O QUE FOR MAIOR)- IBC 1205 2.1 pg 313**
- When **Natural Ventilation** Is Used to Satisfy the Minimum Ventilation Requirements for Habitable Rooms, The Aggregate Open Area to The Outdoors Shall Be a Minimum Of ___ Of The Floor Area? * **4% - IRC 303.2 page 56 -- IBC 1203 5.1 pg 313**
- Walls, partitions, and floor/ceiling assemblies, separating dwelling units and sleeping units from each other or from public or service areas, shall have a **sound transmission** class of not less than **50** or not less than **45 if field-tested** in accordance with ASTM E-90? **IBC sec 1207.2.1 page 314**
- A 45x60 crawl space (under-floor space) with approved **vapor barrier** and cross **ventilation** shall be required to have how much under floor ventilation? **18**—Dividir the total by 150. **IRC 408.2 pg121 and IBC 1203 4.1 pg312**

STEEL

- The design, fabrication, and erection of structural steel for buildings and structures shall be in accordance with which standard **AISC 360**
- What standard are steel joists governed by? **S.J.I (standard joist institute) IBC 2207**
- The Designation of a Steel Beam Is W8x15. What Does The 15 Mean? * The **weight per foot of the beam (linear foot of the steel)**

GROUP / TYPE CONSTRUCTION / CLASSIFICATION / OCCUPANCY

- When working in a restaurant with an occupancy load of 75, what category (use group) does the space fall into? Assembly – A2 IBC pg 41
- A restaurant with an occupancy load of 45-50 people is considered a user group. **B - Business**
- A 17,500 sqft, 1 story, of a group S-1 building of a type 2B construction, has a retail store in the same building, For the storage to be classified as an accessory use, its maximum allowable square footage is? **1,750 square feet (10%) IBC pg 107 – 508.2.3**
- How many construction types are there? **FIVE**
- In a Type 4 construction, wood columns shall be sewn, or glued laminated and shall not be less than 8"nominal in any dimension where supporting floor loads.**IBC602.4.3 pg 114**

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- Hotel and motel what group? **Esta no group Residential VERIFICAR SE TRANSIENT (R1) OU NONTRANSIENT (R2)**

OSHA / Safety IBC capitulo 33

- If required, a pedestrian barrier is required to be a minimum of **8 feet** high? **olhar tabela tambem. IBC Sec3306.5 page592**
- The person making or causing an excavation shall provide written notice delivered not less than **10 days** prior to start? **IBC chapter 33 Sec3307.1 pag 593**
 - Where a structure has been demolished or removed, the vacant lot shall be? **Filled and maintained to Existing grade.** IBC pg 591 3303.4
 - What is the maximum permissible worker exposure to lead? **50 mcg**
 - The definition of a competent person, according to OSHA is? **One who is capable of identifying existing and predictable hazards and has authority to take prompt, corrective measures to eliminate them. OSHA**
 - What is the proper method to install extension cords to or suspended from a ceiling? **String/cord**
 - A lunchroom facility located at an abatement project shall be. **As far away as practical**
 - Abatement workers must be certain they do not. **Leave wearing any protective clothing.**
 - What best describes the **risk** of lead to an employee prior to demo? **Employer exposure**
 - Abatement workers are required by OSHA to do which of the following at the end of each shift? **Wash hands and face if a shower is not provided. OSHA**
- **Respirators: POR ELIMINACAO**
 - A stairway, ladder, ramp or other safe means of egress shall be located in trench excavations that are 4' or more in depth to require no more than feet of lateral travel for employees? **25 feet OSHA 1926.651**
 - Whenever materials are dropped more than **20 feet** to any point, lying outside the exterior walls of a building, an enclosed chute shall be used.
 - How often must a first aid kit be checked on a construction site? **Weekly**
 - An unprotected side or edge that is more than 6 feet above a lower level shall be protected from falling using a personal fall arrest system. **6 FEET**
 - Noise exposure OSHA recommends that workplace noise levels be kept below. **90 dba as 8-hour time average – OSHA**
 - Definition of Ladder angle non-self-supporting ladders, which must lean against a wall or

other support, are to be positioned at such an angle that the horizontal distance from the top support to the foot of the ladder is about 1/4 the working length of the ladder.

- Each end of a platform, 10 feet or less in length, shall not extend over its support more than 12 inches unless the platform is designed and installed so that the cantilevered portion of the platform is able to support employees and/or materials without tipping, or has guardrails which block employee access to the cantilevered end. **VAI PERGUNTAR DE 9 FEET. RESPOSTA 12 INCHES.**
- A fire extinguisher, rated not less than 10B, shall be provided within 50 feet of wherever more than, **5 gallons** of flammable or combustible liquids or 5 pounds of flammable gas are being used on the jobsite. This requirement does not apply to the integral fuel tanks of motor vehicles.
- Who is responsible for the safety of OSHA employer or employee? EMPLOYER
- Who is responsible to provide work clothing employer or employee? Employer
- To do personal monitoring for lead, a small pump is placed on your belt and a filter cassette is clipped on your collar with a flexible tube running between them. The filter should be located as close as possible to_ The pump pulls air through the filter, which traps the lead dust. After the sample has been taken, the filter is sent to a laboratory. The lab uses atomic absorption to measure the amount of lead on the filter. **Your breathing zone OSHA**
- Indoor storage room for Flammable liquids over **25 gallons** require approved container
- Outdoor portable tank storage shall not be near than 20 feet from any building.
- Anchorage
- **Method of compliance** (you can find in Lead) vai ser por eliminacao.
- -How many days the employer has to record illness or injury? 7 days
- -How many years do you have to keep lead records? 30 years
- -Less than 10 employees we don't have to keep records.

IECC

- A one-story structure attached to a dwelling with a glazing area in excess of 40 % of the gross area of the structures exterior walls and roof is considered a sunroom, **40% - IECC**
- According to the IECC code all the following statements about vestibules are true except? – **IECC 402.5.7-page C-40**
- All supply and return air ducts and plenums located in an unconditioned space, in a B use shall be insulated with a minimum of insulation? **R – 6 – IECC C-55 403.2.9**
- Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than **0.3 CFM** per square foot, and swinging doors no more than 0.5 cim per square foot when tested according to:**NFRC. IECC page R-33 R 402.4.3**

- A Skylight Is Defined by The IECC as Glass Or Other Glazing Material, Installed At Minimum Slope Of? * **Less than 60 degrees - DICIONARIO**
- Labeling Of Foam Plastic Insulation Delivered To The Job Site Shall Bear The Label Of An Approved Agency Showing All Of The Following **Except? The date of manufacture IBC page 555 plastic 2606**
- **What is considered low energy building? IECC 402.1.1-page C-31**
- How many programmable thermostats do you need for a single-family house with 2 separate cooling systems? **2 IECC pg R-35 - R403.1**
- Programable thermostat shall initially be programmed by the manufacturer with a heating temperature set point no higher than **70* IECC pg R-35**
- **NAO ESQUECER DE MARCAR A PAGINA R 33 PARA VER O R-VALUE E R-34 U-FACTOR. TEM OUTRA TABELA NA PARTE DO RESIDENCIAL R-30.**
- **Climate zone, marcar a pagina do mapa.**

ACESSIBILITY

- Parking space accessibility AAB pg 89 or IBC pg 298
- Where a 1,625-Space Parking Garage Serves a Covered Mall Building, A Minimum Of Accessible Parking Spaces Must Be Provided. * **27 IBC pg 298 Table 1106.1**
 - A water closet flush valve must be automatic or must be located on the open or wide side of the toilet. AAB

780 CM: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

- *The fair market value of a package store is \$325,000.00. The owner has contracted you to build an addition to the existing package store and the cost of the project is \$104,000.00. What elements of the building must be accessible?*
resposta: The existing structure and the addition must be made fully accessible.

GENERAL KNOWLEDGE

- The sum of all these numbers in inches, convert para feet. (31.393 + 28.142 + 11.090). **5.10. 5/8**
- The sum of all these numbers in inches converter para feet.(23.375+42.125+69.625+37.875+33625) resposta 17. 2.5/8

APPLIANCES

- 1-Appliances shall be accessible for inspections, service, repair and replacement and

inches of working. space shall be provided in front of the control side to service the appliance. **30x30 IRC pg 473**

- Appliances in the attic(furnace) shall be provided with an opening and a clear and unobstructed passageway not less than 30 inches high and 22 inches wide and not more than 20 feet long. **IRC M1305.1.3 pg 474**
- Attic access 22X30 **IRC 807.1 pg 411**
- Wire glass/glazing: Louvered windows or jealousies shall not be not less than 3/16 inches. Wire glass with wire exposed shall not be used in jealousies or louvered windows. **IRC 308.2 pg 58**

REGISTERED PROFESSIONAL

- Trusses members shall not be cut, notched, or drilled in any way without of the approval of a **registered design professional** IRC pg 391 802.10.4
- A registered design professional must be contracted when using steel trusses greater than? **60 – IBC 2303.4.1.3 page 476ou 471**
- When required by the building official or where geo- technical investigations are needed, such investigations shall be conducted by? **Registered Design Professional -IBC 1803.1 pg 417**
- Registered, Professional Architectural or Engineering Services Are Required for Design/Construction Which of The Following? * **A Retaining Wall That Is 12 Feet High When Measured from The Base of The Footing to The Top the wall**