

780 CM: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

CONCRETE / FOUNDATION

- 1- 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)
- 2- A contractor has installed anchor bolts embedded 6" in a concrete foundation. The embedded depth is how many inches too short? **1" IRC pg 89**
- 3- 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**
- 4- The maximum permitted slope for the bottom surface of footings shall be ____? **1:10 (one vertical in ten units horizontal) 10% slope IRC 403.1.5 pag 89 ou 1808.8.4**
- 5- What is the required grading around a foundation wall? The foundation is for a new office building. **one unit vertical in 20 units horizontal for a min of 10 feet 5% slope IBC 1804.4 pag 419**
- 6- 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 _____ beyond the outside edge of the footing and _____ inches above the top of the footing. * **1 Foot And 6 Inches IRC R405.1 page 119**
- 7- 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
- 8- Concrete foundation shall be protected from freezing during depositing and for a period of? **5 days IBC pag 431**
- 9- Portland cement? **3/8 IBC 1805.2.2.1 pag 421 if they are talking about wall preparation.**
- 10- 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)**
- 11- Shotcrete shall be kept continuously moist for after concreting is complete. **24 hours IBC 1908.9.1 pag 451**
- 12- During the curing periods specified herein, shotcrete shall be maintained above degrees and in a moist condition. **40° IBC 1908.9 Pag 451**

WALL

- 1- A wall built of masonry units or of plain concrete or a combination of these materials, arranged to provide an air space within the wall and in which the inner and outer parts of the wall are tied together with metal ties is called a? **Definition of Cavity wall Dicionario IBC pag 39**
- 2- Mortar for use with adhered masonry veneer shall conform to ASTM C270 for: Type N or S- IRC pg 245 602.2.10
- 3- Joint reinforcement embedded in horizontal mortar joints shall not have less than: **R-5/8 IRC 606.3.3 page 246**
- 4-

780 CM: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

- 5- Glass unit masonry shall be laid with type S or N mortar in a single-family, Mortar may be used up To ___ hours after initial mixing, after which it shall be discarded. **1 1/2 hours IRC 607.8 page 257**
- 6- Wire wall tie used in solid masonry units shall be embedded at least inch(es) into the mortar bed? **1 1/2 inches – 606.3.3 page 246 #3**
- 7- A masonry veneer lintel shall have a length of bearing of not less than inches? **4” IRC 703.8.3 page 357**
- 8- A 3x3x1/4 steel lintel is used for opening in a masonry veneer wall, what is the maximum span if supporting one story above? **4’ - 6” – 703.831 page 357 Tabela**
- 9- Notching/Drilling **STUD**. 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 (16 mm) to the edge of the stud. IRC 602.6
- 10- What Are the Spacing Requirements for Fasteners or Corner Stud Framing For A Steel Stud Wall? * **2 #8 Screws At 24 Inches On Center IRC 603.4 pag 230 tabela**
- 11- 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**
- 12- 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”**
- 13- 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**

FIREPLACE/CHIMNEY/

- 14- 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**
- 15- 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**
- 16- 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 1001.211 pg 430**
- 17- What is the required foundation size for a chimney in a single-family house? **12” and 6” IRC 1001.2 pag 427**
- 18- 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**
- 19- 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**

780 CM: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

- 20- Clean-out openings shall be provided with inches of the base of each flue within every masonry chimney. **6" IRC 1003.17 Pag 434**
- 21- Distance of exterior chimney from lot line? **6 feet**
- 22- In a single-family dwelling, masonry chimneys shall be separated from members by a minimum of? **8" IRC 1003.18 Clearance pg 435 IRC**
- 23- 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**
- 24- Where are two or more flues located in the same chimney masonry wythes shall be? **Not less than 4" IRC page 433 1003.13**
- 25- The minimum thickness of a hearth extension shall be. **4" IRC 1001.9 page 429**

FLOOR

- 1- 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**
- 2- A Wood Floor, Joist Framing from Opposite Sides Over A Bearing Support Shall Lap A Minimum Of _____ Inches? * **3" – IRC 502.6.1 page 130**
- 3- 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**
- 4- Bearing. The ends of each joist, beam or girder shall have not less than 1/2 inches (38 mm) of bearing on wood or metal and not less than 3 inches (76 mm) on masonry or concrete 3". IRC 502.6 pg 130
- 5- 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 506.8.1 pg 130
- 6- Joists framing from opposite sides over a bearing support shall lap not less than **3** inches. IRC 502.6.1 pg 130
- 7- 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 506.8.1 pg 130
- 8- 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
- 9- The Massachusetts State Building 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 – IRC 505.1.1 page 134**
- 10-

780 CM: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

WOOD

- 11- How Would You Attach a Rim Joist To A Top Plate? * **8d Common Nail At 6 On Center Toenail 2304.10.1 (figura) IBC pg 485**
- 12- What is the maximum nail spacing used for attaching hardboard lap siding directly to exterior studs? **16 on center IBC page 513 Table 2308.6.3(5)**
- 13- A registered design professional must be contracted when using steel trusses greater than? **60 – IBC 2303.4.1.3 page 476**
- 14- wood girders that are closer than 12 inches (305 mm) 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

HANDRAIL / STAIRWAY / HEADROOM / ILLUMINATION

- 1- 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**
- 2- 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 inches where a handrail is installed on one side and inches where handrails are provided on both sides. **31½ and 27 – IRC page 63 311.7.1**
- 3- 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**
- 4- 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**
- 5- 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**
- 6- What is the minimum clearance space between a handrail and a wall? **1½"- page 65 R311.7.8.2**
- 7- What is the maximum height above grade that a deck can be built without a guardrail? **30"-IRC page 66**
- 8- Hallway – the width (largura) cannot be less than 36 inches IRC 311.6
- 9- What is the minimum corridor width required in Group E Occupancy with occupant load of 100?* **72 – IBC page 279 - Tabela**
- 10- The Illumination Source for Interior Stairs Shall Be Capable of Illuminating the Treads and Landings To A Minimum Level Of _____ Foot Candle(S). * **1 Foot – IRC page 56 R303.7**

780 CM: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

11-What is the min height of a guardrail located on a type 1A inches high-rise on the 15th floor. **42**

ROOF / ASPHALT SHINGLES

- 1- 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**
- 2- 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**
- 3- 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
- 4- What is the height to the top of a 52 feet wide roof with 6:12 slope? **Divide $52 / 2 = 26 \times 6 = 156 / 12 = 13$**
- 5- Double underlayment is required for an asphalt shingle application, where the roof has a slope of up to? **4:12 IBC page336- 337 -sec 1502.8**
- 6- Class C roof covering can be used in all of the following construction types except? **All but 1A – IBC page 335 Comparar com tabela of Type of Construction**
- 7- Is Class C roofing material only acceptable for? **Light fire exposure IBC page 336 - 1505.4**
- 8- What is the difference between class A and class C roofing material **Class A is more fire resistant. IBC page 336**
- 9- 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**
- 10- 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**
- 11- Roofs Shall Be Without Concealed Spaces in Buildings of Type _____ Construction. * **IV – IBC page 113-115 Sec 602.4.7 – 602.4 (in what type of construction?)**
 - 12- Wood shakes application shall be laid at Side lap 1 ½ - **IBC 1507.9.8 page 345.**
- 13- When Using Metal Flashing, The Metal Shall Be Corrosion Resistant with A Thickness of Not Less Than ___Inch? * **.019 (metal flashing= roof) IBC page 340 1507.4.3(1)**

MEANS OF EGRESS/ EMERGENCY ESCAPE / WINDOW / LOAD/ DOORS

- 1- When emergency escape and rescue windows are required, they shall have a sill height of not more than_ inches off the ground? **44 inches – IBC 1030.2.1 page 293**
- 2- What is the net clear **height** of an emergency escape window, with no exceptions? **24"- IBC page 293**

780 CM: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

- 3- What is the net clear **width** of an emergency escape window with no exceptions? **20"** – **IBC page 293**
- 4- A Parapet Is Not Required at An Exterior Wall of a Building Having A Maximum Floor Area Of Square Feet on Each Floor. * **1,000** – **IBC page 124 – 705.11**
- 5- Egress based on occupancy load and or 2 exits **IBC page 255**
- 6- When working in a residential single family, the minimum clear height of the means of egress door shall not be less than and a clear width of _____. **78x32 IRC Sect R311.2**
- 7- Door handles in a bank shall be installed at a maximum of inches above the finished floor. **48 inches**
- 8- Doors shall swing in the direction of egress travel when. **Serving an occupant load of 50 or more.**
- 9- 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 /

- 1- A permit is not required for the construction of a one-story detached accessory when it has a maximum floor area of ____ square feet? **R - 200 sq ft – Presta atencao se nao e do IBC**
- 2- 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**
- 5- When required by the building official or where geo- technical investigations are needed, such investigations shall be conducted by? **Registered Design Professional**
- 9- Notice To the Building Official of Construction Commencement Is Required a Minimum of How Many Hours Before Work Begins? * **24 Hours**
- 10- 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**
- 12- The Certificate of Occupancy Shall Contain All of The Following Information Except. * **The Building's Maximum Height and Area**
- 13- 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**
- 14- 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**

780 CMR: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

FIRE PROTECTION / RETARDANT / RESISTANCE / FIRE ALARM / EXTINGUISHER /

VAPOR BARRIER

- 1- When speaking of fire- blocking, all of the following is true except? **IRC 302.11 page 54**
- 2- What is the fire resistance rating for a non-load bearing interior wall for 2B construction. **0 hours – pg 113**
- 3- An exterior wall in Type 1 construction is located adjacent to a lot line. The required fire resistance rating of the wall will vary according to: Section 603 pg 115 IBC
- 4- The maximum spacing of fire blocking within concealed spaces of exterior architectural elements located in an office should be feet. **20 feet IBC 718.2.6 page 149**
- 5- 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**
- 6- Where should be located Manual fire alarm boxes? **EXIT IBC 907.4.2.1 page 231**
- 7- What is the distance that a pull box for a manual fire alarm can be placed from an entrance? **5 feet**
- 8- Smoke proof enclosures shall be separated from the remainder of the building by a minimum of? **2 hour fire barrier – IBC 909.220.2 page 242**
- 9- What best defines the property of materials or their assemblies, which prevent or retard the passage of excessive heat, hot gases or flames under conditions of use? **Definition of Fire Resistance**
- 10- What type of Fire Extinguisher for Flammable or Combustible Liquids with Less Than Or Equal To 0.25 Inches, Shall Have A Basic Minimum Extinguisher Rating Of 5b With A Max Travel Of Exting Of 30 Feet. * **Type B Type – IBC 906.3.2 table page 221-222 (type low hazard)**
- 11- Interior fire-retardant treated wood shall have moisture content of not over 28 percent when tested in accordance with ASTM D 3201 procedures at 92-percent relative humidity. **IBC 2303.2.7 page 415**
- 12- The Maximum Spacing of Fire Blocking Within Concealed Spaces of Exterior Architectural Elements Located In An Office Shall Be _____ Feet? * **20 Feet IBC pg 149**
- 13- 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)**
- 14- Perguntas sobre **Fire Resistance Rating** em GROUPs olhar na tabela IBC 707.3.10 page 127

LIGHT / NATURAL VENTILATION

- 1- Every room suitable for human habitation shall have natural light provided with aggregate glazing area of not less than ___ of the floor area of such rooms? **%8 – IRC 303.1 page 55**
- 2- A 45x60 crawl space with approved vapor barrier and cross ventilation shall be required to have how much under floor ventilation? **You must have 18 sqft – IBC 1203.4.1 pg 312**
- 3- 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**

780 CM: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

4- 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**

HABITABLE / SPACES SIZES AND HEIGHT

1- In a single-family home what is the minimum square footage that the code considers a room habitable?
70 sq ft

3- 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"**

4- What Is the Minimum Square Footage That a Kitchen Must Be in a Single Family? * **No Minimum**

5- Within A Shower Compartment, The Wall Shall Be Finished with A Nonabsorbent Surface to A Minimum Height Of _____? * **72 Inches**

6- What is considered a sunroom? **40% of the gross area of the structure exterior wall and roof**

TEMPERATURE

1- Heating Degree Days is the sum, on an annual basis, of the difference between and the mean temperature for each day? **R - 65 Diconario IRC page 18**

2- **Temperature for human occupancy – IBC 1204.1 page 313**

3- How many programmable thermostats do you need for a single-family house with 2 separate cooling systems? **One**

MECHANIC / DUCTS/VINYL

1- Mechanical draft systems shall be installed in accordance with the manufacturer's installation instructions and all the following regs except? **Power exhauster terminations shall be locating not less than 8 feet from lot lines and adjacent buildings. IRC M 1804.2.6 pg 497**

2- Outside combustion air shall be supplied through intake openings or ducts. What is the minimum clearance from the ground or floor **12" IBC pg 143 IRC pg 56**

3- Vinyl Siding application IBC pg 325 1405.14.1

STEEL

1- The design, fabrication, and erection of structural steel for buildings and structures shall be in accordance with which standard **AISC 360**

2- What standard are steel joists governed by? **S.J.I (standard joist institute)**

780 CM: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

- 5- The Designation of a Steel Beam Is W8x15. What Does The 15 Mean? * The **weight per foot of the beam**

/ GROUP / TYPE CONSTRUCTION / CLASSIFICATION / OCCUPANCY

- 1- When working in a restaurant with an occupancy load of 75, what category (use group) does the space fall into? **Assembly - A**
- 2- A restaurant with an occupancy load of 45 people is considered a user group. **B - Business**
- 3- A 17,500 square foot, 1 story, use group S-1 building of a type 2B construction, has a retail store in the same building, For the retail store to be classified as an accessory use, its maximum allowable square footage is? **1,750 square feet (10%) IBC pg 107 – 508.2.3**
- 4- How many construction types are there? **FIVE**
- 5- Types of construction in which the building elements listed in table 601 are of noncombustible materials, except as permitted in section 603 and elsewhere in this code?
Type 1 and 2 IBC Section 602.2 page 113
- 6- The required fire resistance rating of an exterior wall will vary according to (based on construction Type, occupancy, and fire separation distance) as defined in Section 6 of the IBC, except the? **Building height**
- 7- In a Type 4 construction, wood columns shall be sewn, or glued laminated and shall not be less than _ nominal in any dimension where supporting floor loads? **8 inches IBC sect 602.4.3 page 114**
- 8- What is the minimum size of beams and girders in Type 4 construction? **6" wide by 10" deep (types 4 construction=heavy timber**
- 9- Hotel and motel what group? **Esta no group Residential VERIFICAR SE TRANSIENT OU NONTRANSIENT**
- 10- Multiple Dwellings, multiple units- IBC pg 298 1107

SOUND TRANSMISSION

- 1- 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 or not less than if field-tested in accordance with ASTM E-90? **50 and 45 if tested. IBC sec 1207.2.1 page 314**

SPRINKLER / FIRE WALLS

- 1- Openings through a firewall shall not exceed _square feet? The aggregated width of openings at any floor level shall not exceed percent of the length of the wall, located in a non-sprinkled building? **156 square feet and 25 percent IBC pg126 706.8**
- 2- In a non-sprinklered B use group occupancy, what is the max length of exit access travel distance.

780 CM: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

200 feet IBC 1017.2 pg 277

- 4- Fire Walls Shall Be Designed and Constructed In Accordance With IBC Section 706 Or _____ . *Nfpa 221 IBC pg 124 706.2
- 5- Fire walls shall be of any approved noncombustible materials. Except **Buildings** of Type V construction. – **Ibc Section 706.3, Exc.**

OSHA / PROTECTION / GUADRAIL – Safety IBC capitulo 33

- 1- If required, a pedestrian barrier is required to be a minimum of ___feet high? **8 FEET olhar tabela tambem. IBC Sec3306.5 page592**
- 2- Where a structure has been demolished or removed, the vacant lot shall be? **Filled and maintained to Existing grade.** IBC pg 591 3303.4
- 3- What is the maximum worker exposure to lead? **50 mcg**
- 4- 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**
- 5- What is the OSHA approved method to install extension cords that must be fastened to or suspended from a ceiling? **String/cord**
- 6- A lunchroom facility located at an abatement project shall be. **As far away as practical**
- 7- Abatement workers must be certain they do not. **Leave wearing any protective clothing.**
- 8- What best describes the **risk** of lead to an employee prior to demo? **Employer exposure**
- 9- 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**
- 10- A stairway, ladder, ramp or other safe means of egress shall be located in trench excavations that are 4' or more in depth so as to require no more than feet of lateral travel for employees? **25 feet – pg 356**
- 11- Excavation trench – 36" or more depth, needs? **ladder at 25 feet travel distance – IBC page 356 ou OSHA 1926.651**
- 12- The person making or causing an excavation shall provide written notice delivered not less than _____ to start? **10 days prior IBC chapter 33 Sec3307.1 pag 593**
- 13-
- 14- Whenever materials are dropped more than_ feet to any point, lying outside the exterior walls of a building, an enclosed chute shall be used. **20 feet**
- 15- How often must a first aid kit be checked on a construction site? **Weekly**
- 16- A roof with an unprotected side or edge that is more than feet above a lower level shall be protected from falling using a personal fall arrest system. **6 FEET pg 331**

780 CMR: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

- 17- Noise exposure OSHA recommends that workplace noise levels be kept below. **90 dba as 8 hour time average – OSHA**
- 18- 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 _____ the working length of the ladder. $\frac{1}{4}$ **pg 450**
- 19- Each platform greater than _____ in length shall not extend over its support more than _____ (46 cm), unless it is designed and installed so that the cantilevered portion of the platform is able to support employees without tipping, or has guardrails which block employee access to the cantilevered end. **10 feet / 18 inches-**
- 20- Each end of a platform, _____ or less in length, shall not extend over its support more than _____ (30 cm) 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. **10 feet / 12 inches –**
- 21- A fire extinguisher, rated not less than 10B, shall be provided within 50 feet of wherever more than, 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 **5 gallon – pg263**
- 22- Who is responsible for the safety of OSHA employer or employee? **OSHA**
- 23- 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**
- 24- Indoor Storage/ Portable Flammable liquids 1926(153)
- 25- Method of compliance (you can find in Lead) vai ser por eliminacao.

PLASTIC / INSULATION / CLIMATE ZONE / FENESTRATION / R VALUE / U FACTOR / GLAZING

- 1- Requirement to insulate an existing wall cavity. Can the insulation stay if already insulated? **YES**
- 2- A one-story structure attached to a dwelling with a glazing area in excess of % of the gross area of the structures exterior walls and roof is considered a sunroom, **40% - IECC dicionario**
- 3- According to the IECC code all the following statements about vestibules are true except? – **IECC 402.5.7-page C-40**
- 4- 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**
- 5- 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**

780 CM: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

- 6- A Skylight Is Defined by The IECC as Glass Or Other Glazing Material, Installed At Minimum Slope Of? * **Less than 60 degrees on horizontal and 15 Degrees from The Vertical**
- 7- Labeling Of Foam Plastic Insulation Delivered To The Job Site Shall Bear The Label Of An Approved Agency Showing All Of The Following Except? * **Manufacturer's Name Product Listing, Product Identification And Information Sufficient To Determine That The End Use Will Comply With The Code Requirements / Does not need a date. – IBC page 555 plastic 2606**
- 8- Qualquer pergunta com safety glazing installed in fire window assemblies olhar no IBC pg 142 716.6.
- 9- Security glazing. In occupancies in Group I-3, windows and doors in 1-hour fire barriers shall be permitted to have security glazing installed provided that the following conditions are met.:Individual panels of glazing shall not exceed 1,296 square inches. IBC pg 70 408.7
- 10- What is considered low energy building? IECC 402.1.1-page C-31**
- 11- International Energy Conservation Code (IECC) Sets the Criteria for All the Following : olhar pagina 1 do IECC

ACCESSIBILITY

- 1- Parking Lot for A New Convenience Store Has 9 Spaces. What Is Required, according to AAB
- * **Nothing - Aab Code Handicap Rule Kicks in After 15 Spaces – AAB page 89**
- 2- 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**

GENERAL KNOWLEDGE

- 1- The sum of all these numbers in inches, convert para feet. (31.393 + 28.142 + 11.090). **5.10. 5/8**
- 2- To start a construction profession design need: **site plan IBC 107.2.5 page 6**

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**

WALL AND CEILING FINISHES

- 1-The Acceptance Criteria for Textile An Expanded Vinyl Wall Or Ceiling Coverings – **IBC 803.7 and 803.8 page 204**

780 CM: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS