

STANDARD DESIGN CONSTRUCTION OF MANUFACTURING FACTORY

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Company: Bicjsc

Location: Indonesia

Category: other-general

STANDARD DESIGN CONSTRUCTION OF MANUFACTURING FACTORY The factory construction design standards to ensure the latest construction and operation of the factory are regulated through documents that clearly define the factory design standard items for investors, design contractors. , construction understand clearly. Currently, the legal basis specifies factory construction standards to ensure the latest construction and operation of the factory is regulated through documents that clearly define the factory design standard items for the factory. Investors, contractors for design and construction must strictly comply with:- Vietnam Construction Code according to Decision No. 682 / BXD-CSXD dated December 14, 1996 of the Minister of Construction.- Vietnam Construction Code according to Decision No. 439 / QD-BXD dated September 25, 1997 of the Ministry of Construction.- Current standards for building industrial factories Standard design factory floor For the design standards of the foundation and the factory foundation, there will be requirements for drawings of the workshop foundation structure as specified in TCVN 2737: 1995 to ensure the requirements of impact load technology, engineering geological conditions. hydrogeology:- The design of the industrial factory floor on soft soil requires geological and ground treatment measures- The factory floor design must meet the technological requirements and use conditions in order to select suitable foundation structures according to the types of foundation:- Workshop floor made of concrete: Concrete; reinforced concrete; impact-resistant steel billet; concrete can withstand acid and alkali corrosion; asphalt concrete- If the design of the workshop floor for the warehouse or yard, the viaduct location used for loading and unloading loose materials must be level;- The workshop floor must have a hard lining and

a quick drainage system to avoid water stagnation;- A concrete workshop foundation design must be divided into each cell and the length of each cell must be up to 0.6 m, and between circuits, it must be inserted with bitumen. At the same time the concrete lining has the minimum thickness greater than 0.1m and- The required width of the pavement foundation must be from 0.2 to 0.8 m and the slope is 1 to 3%.Standard design drawings of industrial factory foundations - Standards of workshop foundation design drawings and technical systems of underground works of the workshop, if any, must be consistent with the mechanical properties of the ground and natural features of the building foundation.In which, foundation standards when designing foundation drawings must satisfy the following regulations:- Design of workshop construction foundation with the top surface height lower than the foundation surface with the difference of:+ For reinforced pillars: difference 0.2m+ For columns with wall-inserts: the difference is 0.5 m+ For reinforced concrete columns: the difference is 0.15 m- For the height of the steel column base of the corridor, the viaduct supporting the pipes between the workshops must be at least 0.2 m higher than the leveling height.- Designing the foundation of the columnar of the workshop with expansion joints and the workshop planned to expand requires a common design for two adjacent columns.- For foundations under brick walls, masonry walls, or gravel if it is frameless house: the foundation depth is less than or equal to 15cm, it is necessary to design girders to support the wall and the top surface of supporting beams should be lower than the ground surface when completed at least. is 3cm (0.03 m).- Workshop foundation design for parts subjected to high temperatures must use protective layers of heat-resistant materials, foundations subject to corrosion effects must have anti-corrosion material designs. Design standards for factory roofs and roof doorsFor the design of roof and roof door, it is necessary to ensure the following standards:- Standards of roof slopes according to materials: Depending on the choice of roofing materials, appropriate standards for roof slopes will be specified as follows:+ Factories using asbestos-cement roof sheets: Slope from 30% to 40%;+ Factory roof slope standards (corrugated iron roofing sheets): Slope from 15% to 20%;+ Workshop for production and design of roofing tiles: Slope from 50% to 60%+ Industrial workshops with design of reinforced concrete roofing sheets: Slope from 5% to 8%.- The standard of roof slope of the workshop if less than 8%, it is required to have a thermal slot in the waterproof reinforced concrete layer and the distance between the heat joints should be greater than 24m along the house.- For the design of factory drainage in the roof, it will depend on the roofing materials and technological requirements that will design the inside or outside of the

industrial factory roof.- If the simple design of the factory is small with a 1 span roof and the workshop design width is not greater than 24m and the column height is less than 4.8m, it is allowed to design rainwater running freely without pipe design. guide. However, if the roof of the workshop is designed with a column of 5.4m or more, there must be a trough system leading to the ground.- For the design of a workshop with a roof or drop-roof with 2 roof deflection greater than or equal to 2.4m, there must be a water catcher and drain pipe. In case the 2-roof deviation is less than 2.4m, it is not necessary to make a spreader, but there must be a construction method to reinforce the lower roof in the pouring water.- For mixed roof doors with lighting and ventilation functions, it is imperative to design to mount the glass vertically and only to install it at an angle when there is reasonable evidence. The length of the roof door should not be more than 84m and should be set back and 1 step away from the gable. In addition, the industrial workshop design standards for roof sections must not have heat, steam or mobile devices. If there are no roof doors.- If the workshop produces harsh, humid, and dynamic conditions, and requires ventilation roofs, it is necessary to ensure that there must be a racing roof against rain, no glass, but only gaps with a clearance height of 0.15 m up to 0.3 m.- Arranging the anti-rain angle not greater than 15° for the manufacturer that is hydrophobic or in the gap where the slant bolt is arranged, the anti-rain angle of the upper race roof can be increased to 45° . The bolt are not made of fragile material.- The roof door section requires fixed glass, the lower part is open, the upper part has a racing roof and the glass thickness is greater than or equal to 3mm. If the autocad drawing file for workshop design has a crane, the roof door must be fitted with a protective mesh of glass with a minimum mesh width of 0.7m, glass mounted vertically and with a plan view of the door frame when the door frame is inclined or lying horizontal. If the reinforced glass does not need a protective mesh.- When designing the workshop, the selection of the types of roof doors such as: domed workshop drawing, serrated, M-shaped, squatting ... will depend on the technology and direction of the workshop. Design standards for factory walls and partitions - Construction design standards for workshops for walls and partitions will depend on the characteristics, scale and use needs to choose the appropriate types of factory walls such as: bearing walls, self-bearing , framed walls ... with brick materials, natural stone, asbestos-cement panels, reinforced concrete slabs.- Note that if the outer wall is made of asbestos-cement sheet or light material, the design of the footing should be brick, stone or concrete and at least 3cm higher than the surface when finished.- If using a brick wall, it must have a layer of waterproofing rainwater and

moisture with a grade 75, 20cm thick cement mortar placed horizontally on the ground surface when completed.- For workshop partition walls, the design can be removed very conveniently.- If designing the factory, each good span has the maximum size of 12m and maximum column height of 6m.Factory design standards for windows, doorsRequirements on design standards for construction of industrial factories for windows must satisfy the following conditions:- Door height is maximum 2.4m from the surface and must be able to open and close- Window height greater than 2.4m must be installed in a fixed frame to protect against storms and in case of need, it is necessary to install a door with secure clamp and mechanically open and close.Other factory design standardsIn the standards for designing drawings of industrial factories, there are many other requirements about:- Factory electrical design standards: Design drawings of electrical systems for lighting and production factories must meet reasonable production needs and electrical safety such as:+ Lighting design drawings for factory lighting+ Design drawing of power outlet+ Design drawing of cable television, telephone (if any).+ Detailed smart electricity diagram (if any).- Design standards for fire protection (pccc) for factories; One of our strong points is thanks to the strong changes in the development of technology. BIC is always aiming for the best and new technologies to meet the diverse requirements in construction, from complex construction techniques to the ability to operate and execute large-scale projects. Why choose BIC for construction to execute the condominium project?

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