Grid design instructions 4. Seal the plate.Tone head: the material shall meet the Q235B steel specified in GB / T700, steel pipe diameter

ball carbon steel mesh frame. See the frame plan. Organized drainage of the network frame. 3. See the frame plan.
4. Organized drainage of the network frame.
5. Network frame support form: multi-column point support.
6. Network frame support form: multi-column point support.
6. The frame in the layout plan of the network frame is the support, and the support reverse force unit is Gianniu (KN).
7. Support reverse force unit is Gianniu (KN).
8. Structural safety level: Grade II.
9. Structural safety level: Grade II.
9. Structural importance system: 1.0
10. Design specifications: (Construction must follow the following specifications: (Construction must follow the following specifications: (Construction must follow the following specifications: Construction for Specifications of Specifications of Specification (Specification for Space Grid Structure, (GJ7-2010)
7. Eventual for Specification for Space Grid Structure, (GJ7-2010)
7. Stephond for Network Construction Engineering Quality Inspection and Evaluation (JG/R-91)
8. Technical Specification for Cold-bent Thin-Wall Steel Structure GB50018-2016
9. Code for Fire Design (GB50018-2014 (CS10))
9. Code for Fire Design (GB50018-2014 (CS10))
11. High-atrength botts for steet botts GBT16030-2016
12. Technical Code for Fire Protection of Building Steel Structure GB50088-2018.

13. Unified Standard for Building Structure Reliability Design GB 50068-2018. III. Design technical parameters III. Design technical parameters

1. Quiet load of 0.50KN / m2

2. The upper load is 0.50KN / m2

3. Lower string static load of 0.30KN / m2

4. Basic air pressure: 0.50KN / m2

5. Basic son we pressure: 0.30KN / m2

6. Iemperature change value: ± 30 degrees.

7. Earthquade fortification intensity: 7 degrees, basic seismic acceleration value of 0.15g, Design seismic group of the site is the first group.

Site category is three categories, network frame damping ratio 0.02, key rod length fine ratio pull rod 180, pressure rod 150, rod 180, pressure rod 150.

8. Ground roughness category: Class B.

9. The dead weight of the network frame is automatically formed by the computer program.

10. The load must act on the node, and shall not be overloaded in use, and the rod parts shall not bear the transverse load. 1. The computer-aided design system (MST2020) N. Material requirements

Steel pipe: The steel used in the structure shall meet the following requirements, and shall have a quality certificate and re-inspection report.

The ratio of measured yield strength of steel and tensile strength of steel shall not be greater than 0.85; A. The ratio' of measured yield strength' of steel and tensile strength of steel shall not be greater than 0.85;
b. Steel shall have obvious yield steps, and elongation shall not be less than 2.0%;
c. Steel shall have good soldability and qualified impact toughness;
d. Adopt (2255) steel, and the material meets the relevant regulations of the material
compliance (carbon structural steel GB / 1700000),
hosphorus and carbon content of qualified assurance. Steel pipes amy be high-frequency welded
pipes or seamless steel pipes,
life product quality meets the provisions of the Structure GB will be seamless steel pipes,
life product quality meets the provisions of the Structure GB will be seamless steel pipes or Structure GB will be seamless of the structure GB

Project name: Algeria Grid works
 Structural type of the mesh frame: this mesh frame is a four—angle cone bolt

The surface shall be smooth, no cracks, no excessive burning and no hemp. High strength bolts; use <<steel frame bolt ball nodes>> (GBT16939-2016) Designated 40Cr, 20MnTiB, 35CrMo, 35VB steel, finished permitted any Quenched crack of a depth or any length. The performance grade of high strength bolts after Quenched crock or a depth of dny length the performance groups of lings areing 1998 of the quality adjustment must method het hetexagonal head bolts> (GB1228), the thread shall conform to level 6g in <<ord>
 Grading thread tolerance and coordination>> (GB197), the thread shall conform to level 6g in <<ord>
 Grading thread tolerance

And apply anti-rust oil.

and the surface shall be blackened

Project overview

4. Seal the plate.Tone head: the material shall meet the Q235B steel specified in GB / T700, ste The come head of 75 must be used. Any section of the joint weld and the cone head shall be strong with the connected steel pipe, and the thickness shall be quaranteed Requirements for proving strength and deformation. Seel plate, cone head appearance shall not be exceed.Over-Dum and oxidizes likin. Date the specific of the technical Conditions or Low Alloy Structural Steel field in Carbon Structural Steel GB / T700 or the Technical Conditions or Low Alloy Structural Steel in Carbon Structural Steel (GB 1931) 16Mn Steel or 45 Steel Steel Number and General Technical Conditions (GB699). The sleeve shall look without cracks,Over-Dum and oxidized skin.

F. Requirements for performance index of another both rod; the rotio of measured tensile strength of Requirements for performance index of another both rod; the rotio of measured tensile strength and 1.255. Indicated skin. than 1.25; The ratio of the measured yield strength value to the standard yield strength value shall not be areater than 1.3, and the measured total elongation value at the maximum tensile force shall not be less than 9%. greater than 1.3, and the measures total elongation value of the maximum tensile force shall not.

7. Fastening screws: the materials use 40 chromium steel or 40 boron steel or No.70 spring steel.

8. Welding strip.

8. Welding strip.

9. When the base material is 0.2358 steel, E4303 shall be adopted and whose performance shall meet the provisions of Carbon Steel Welder (GB5117).

9. The base material is E4.3xx with No.45 welding strip, and the ball is preheated to 150–200. degrees C before welding; c) If the above two types of solds adopt CO 2 gas protection welding, the welding wire shall Comply with Steel Welds for CO 2 Cas Protection Welding (GBS 10).

9. All the materials used in the grid rock shall be with the factory qualification certificate, and the materials without the factory certificate must be tested and confirmed before they can be used. The quality of all products shall meet the Steel Grid Industry Standards. The quality of all products snall nives use steel one means of the butt welds at both ends are 1. Steel pipe and sealing plate. When the cone head forms a rod, the butt welds at both ends are 2. The welding of the support bolt ball and the base must be preheated to the ball to 150–200 degrees C and using the positioning frame before welding; and the positioning frame before welding minimum member thickness and not less than Hrefmm.

4. Double welding and splicing of steel pipe

5. Steel since butt weld there shall not be two ioints between the two adjacent nodes, and the A) Steel pipe butt weld, there shall not be two joints between the two adjacent nodes, and the minimum takeover length shall be greater than At 800mm, and the pull rod shall not butt;

b) Steel pipe butt joint section, the angle of bilateral V joint is 60-90 degrees and the weld is high b) Steel pipe butt joint section, the angle of bilderol V joint is 60-90 degrees and the weld is high N> t (t is pipe wall)

N to the pipe wall view and the pipe was the pipe VI. Production and installation of the network frame Juction and installation of the network frame
I. The production, transportation and installation of the mesh shall comply with the mesh
Structure Design and Construction Regulations, JGJ7—2010 and
Acceptance Standard for Construction Quality of Steel Structure Works GB50205—2020, Bolt Ball node JG11-2016, The Standard for Inspection and Acceptance of Steel Network Rack, JG12-1999. 2. It is necessary to preassemble the components before leaving the factory; if hoisting, pay attention to the arrangement of lifting points and take necessary temporary reinforcement measures The excessive plate of the embedded parts and the network frame support plate are connected by bolts, so its position and elevation shall be absolutely guaranteed during the construction. connected to boots, so its position and elevation shall be absolutely guidanneed during the co-in order to meet the requirements of lightning protection, the network frame support and the following the course protection of the control of the course protection of the control of the con b).The elevation error is <30mm;

c). The steel plate flatness of the embedded parts is <3mm

7. Grid frame for rust removal and coating

7. und Trame for rust removal and cooting.

1. The steel must be completely removed before production, without rust, dust, oil, etc.The rust removal grade shall meet Sa2.5 in Steel Surface (GBT8923.4—2013)

2. After steel rust removal, point and rust prevention primer according to the Standard for Construction Quality Acceptance of Steel Construction Engineering (GB50205—2020)

Two courses (2X35um), two finishes (2X35um); total day point film thickness is not less than

TSUM, and paint film damage site during installations of paint film damages into test that ISSUM and paint film damage site during installations of adjacent parts; high strength bolts and bolt boll belt threads shall be coated with onli-rust oil.

3. The single fire resistance grade of this building is Grade II; the fire prevention grade of the network frame is Grade II. The fire prevention of the steel structure should meet the requirements of the construction specialty and meet the specified fire resistance limit beam: 1.5 hours requirements of use construction sections, and there is specified in the s

Section 4.2.1 Requirements.

4. Phase soluble test should be carried out between the selected steel structure fire prevention (anti-corrosion) point and the anti-corrosion prevention paint (paint), which can only be used

(anti-corrosion) point and the anti-curvaint personate point (action of the the test is qualified.

5. After the installation of the network frame structure, the excess holes should be blocked with greaty sees (completed when partiting).

Will complete the complete of t

/III. Brité network frame analysis results

1. Maximum tensile force / pressure (1820.3/1598.4)KN.

2. Maximum deflection of Z==95.2mm

3. The calculation result is only the grid part.Reinforced concrete column shall be determined by

Party A according to the internal force design of the network frame support base.

Upper string bar - abdomen bar-lower string bar - node ∩ support

X. In the materials table, the selected specifications shall not be replaced arbitrarily, if the

A materials are selected specimicallors stall not be replaced arounding. If me another in the constant of the design unit, and the material length in the material table is The the length of the material, the local real sample of the grid should be released before the material Check the size of each steep ippe, the length of the material shall avoid negative error.

11. The construction drawing of the steel grid frame shall be carried out by the construction unit with the steel structure construction qualification

Detailed and sample out design and approved by Party A and the design institute

XII. The site size of the grid shall be retested before processing, and it can be processed and installed after it is correct

Thirteen other

Heavy objects are not allowed to be suspended on the rod parts in the installation and use of the network frame.

Steel mesh frames shall be regularly inspected, maintained and maintained, and vulnerable components shall be replaced.