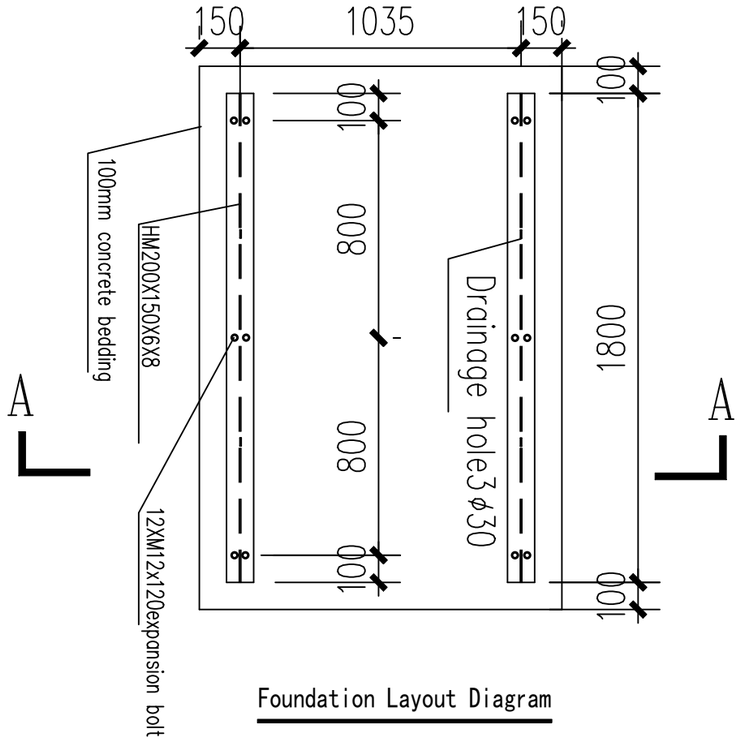
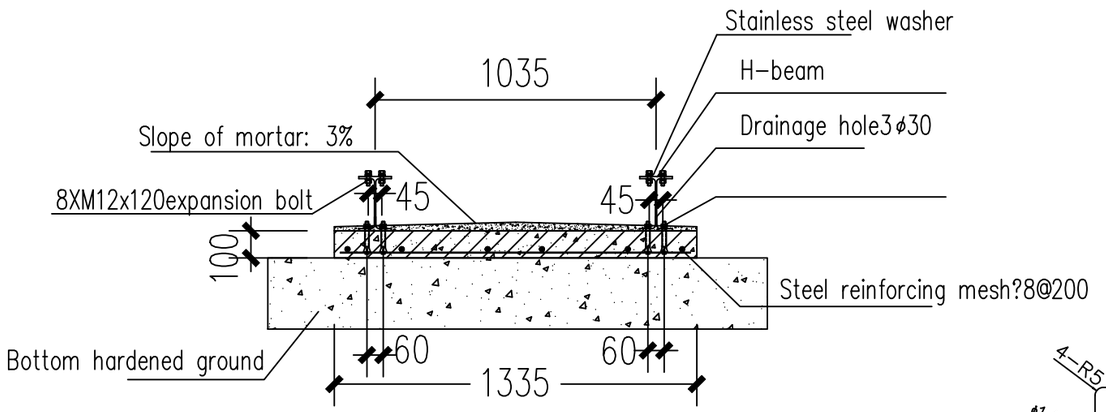
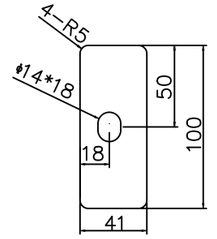
REV	ECA NO.	DESCRIPTION



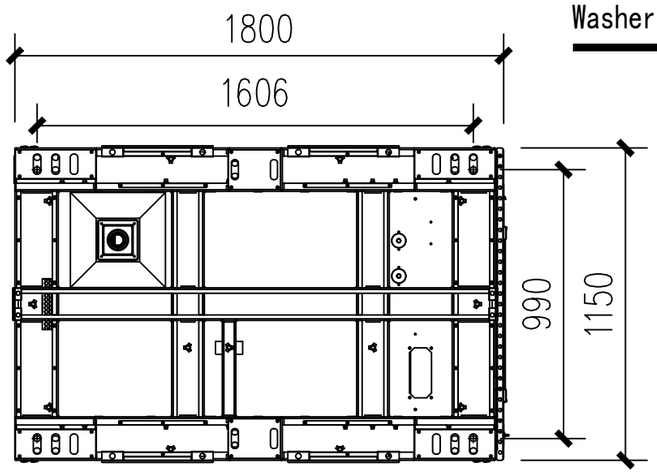
Foundation Layout Diagram



A-A Foundation Sectional View



Washer Dimensions



BOTTOM VIEW

Notes:

1. The net weight of the ESS does not exceed 2800 kg.
2. The foundation can be a concrete foundation with a minimum thickness of 150 mm and a minimum bearing capacity characteristic value of 100 kPa. If the foundation cannot meet the bearing capacity requirements, see LUNA2000B C&I ESS Foundation Schematic Diagram 1/2–Concrete Foundation.
3. The concrete grade of the bedding is C25.
4. The error of the elevation of the top surface of the steel beam shall not be greater than 3 mm.
5. After the steel beam is installed, use mortar to level the surface of the flat bedding layer. The thinnest part is 15 mm, and the slope is 3%. In addition,drainage holes shall be drilled in the web of the steel beam according to the figure to prevent the steel beam from being rusted due to water at the bottom of the foundation.
6. The H–beams shall be selected according to the local standard. The width of the top shall be greater than or equal to 115 mm. The example in this figure is an HM200X150X6X8 beam, which is for China region. In the EU, the HE 120 (120 mm x 120 mm) beams can be used.
7. In areas prone to strong earthquakes (with a magnitude of 8 or higher), it is recommended that stainless steel washers be added to the bolts on the ESS base. For details about the dimensions, see the washer dimensions diagram.
8. The error of the elevation of the top surface of the foundation (column) shall be less than or equal to 3 mm. It is recommended that the foundation be 300 mm higher than the horizontal ground.
9. Ensure that the bottom of the equipment is higher than the local highest water level to prevent rain from corroding the ESS base and interior.
10. A drainage system must be constructed onsite to prevent the bottom or internal devices of the ESS from being immersed in water in rainy seasons or when a large amount of precipitation occurs.
11. Reserve trenches or cable inlets for the C&I ESS during foundation construction.
12. The reserved holes on the foundation and the cable inlets at the bottom of the equipment shall be sealed.

Note: The C&I ESS foundation schematic diagrams are for reference only. The design specifications of the ESS foundation shall be reviewed by the customer based on the installation environment, geological features, and seismic resistant requirements of the site.

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TITLE: LUNA2000B C&I ESS Foundation Schematic Diagram 3

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A3