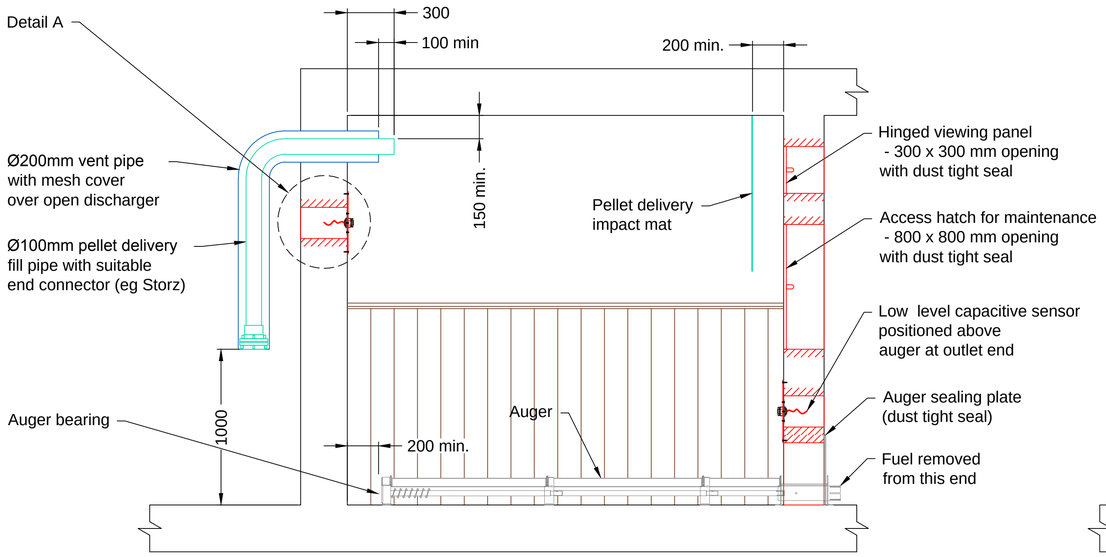

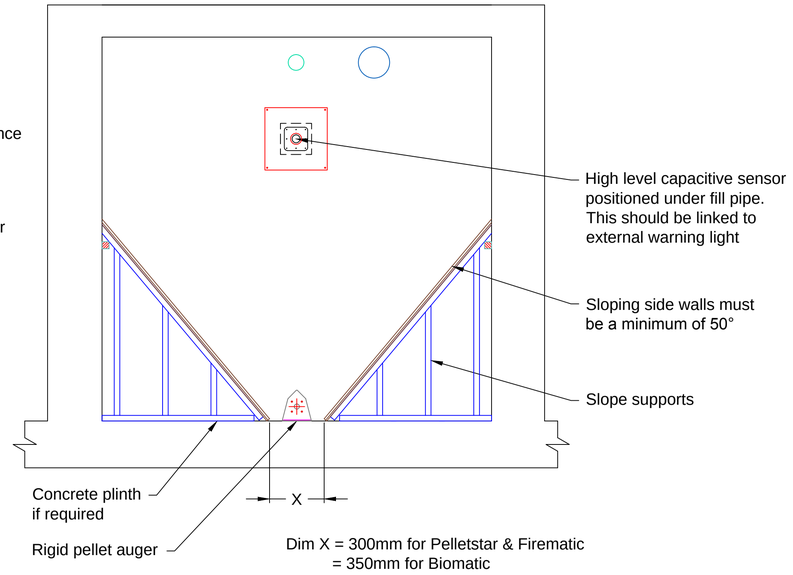

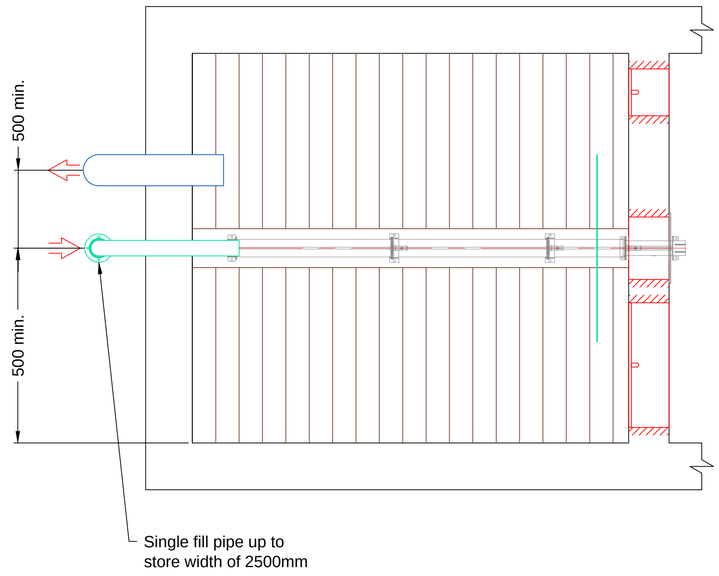

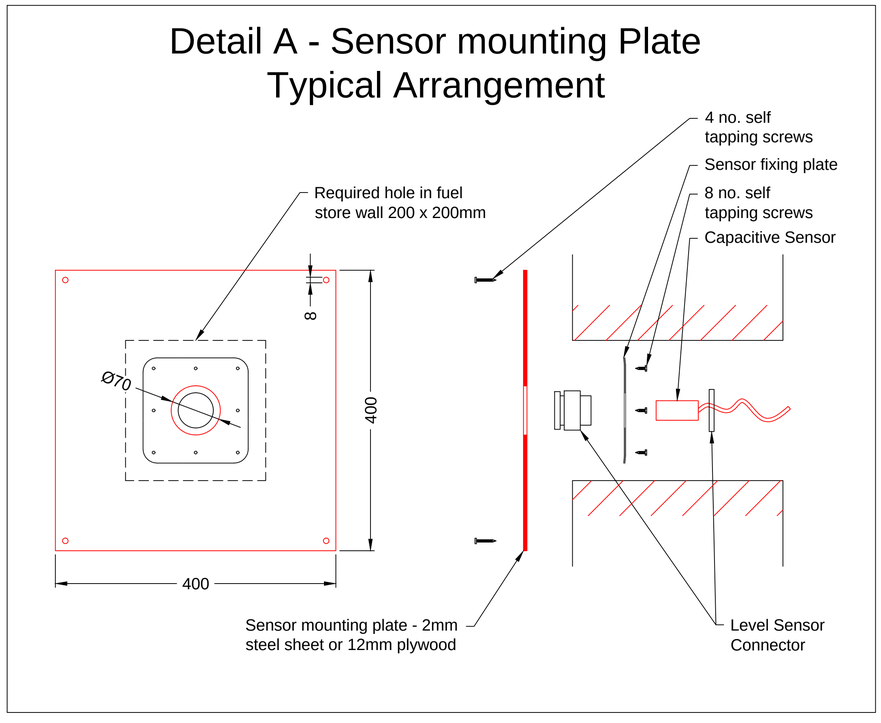

This drawing is for guidance only. Care should be taken to ensure that all the appropriate legislation is adhered to, including British Standards, CDM and relevent Health and Safety regulations including ATEX.

General

1) The fuel store should be of a sealed construction with walls of adequate strength to support the lateral forces when full of pellets.
2) Given the complexity of Technical Guidance Document B it is recommended that a fire expert be consulted for advice where wood pellets are stored within a building.
3) Completely dry environment. Concrete plinth may be required if there is a risk of flooding.
4) The filling and vent pipes should be earthed and (filling) located for easy access by the pellet delivery vehicle.
5) The floor and the walls of the fuel must must be smooth to allow pellets to flow and prevent damage to the pellets

Access for Maintenance and Cleaning

5) One access hatch - typically 800 x 800 mm - should be provided for maintenance and cleaning. With lower quality pellets, there is a possibility of bridging of the fuel within the fuel store. In this instance access for manual intervention is essential.
6) Access will be required into the hopper for the maintenance on the auger end-bearing.
7) Dust and pellets may collect on the 50° sloping walls, and in the corners, these areas should be cleaned annually.

Filling Pipe

8) This should be 100 mm diameter and constructed from heavy weight tube with long radius bends.
9) Up to a width of 2.5m, a single pellet delivery pipe is sufficient. A pellet impact mat should be positioned directly in front of the delivery outlet. For store widths greater than 2.5m it may be necessary to use more than one pellet delivery pipe to optimise hopper filling.
10) The delivery pipe should be fitted with a end coupling compatible with the fuel delivery vehicle.

Vent Pipe

11) The vent pipe should be 200mm diameter and allow for the fitting of a suitable filter bag or other dust collection device. Alternatively, 2 No 160 mm vent pipes may be used.

Fuel Level Detection

12) High and low level proximity sensors should ideally be fitted in the hopper to allow fuel level monitoring. The high level sensor should be linked to an external warning light to alert the fuel delivery operative.
13) Sight glasses should be positioned in the store to allow independent monitoring of the fuel level.

Health & Safety

Warning signs should be placed on the pellet storage area door, ideally on both sides so it can be seen when the door is open. The warning sign should include the information:
-DANGER - RISK OF CARBON MONOXIDE POISONING
-No smoking, fires or naked flames
-The room should be adequately ventilated before entering. Keep the door open whilst inside
-There is a danger of injury from movable parts
-Filling procedures should be carried out in accordance to the instructions of the heating installation company & pellet suppliers.

Drawing Name
Pellet Store Construction Details

Drawing Number:	Issue No.	Sheet No.
FS-001	09	1 of 1

Scale @ A1:	3rd Angle Projection
nts	

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