

Proposed Development at St. John's Convent, New Street, Rathangan, Co. Kildare

Operational Waste Management Plan



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1. Operational Waste/Number of Bin Stores

A. 2 no. bin stores are provided for the development, i.e., one for Block 'A' and one for Block 'B'.

Bin stores will contain 2no. 1100l wheelie bins (1No. green for DMR + 1No. black for MNR) + 2No. 240l Wheelie bins (1No. for Organic Waste and 1 no. for Glass).



Amount of required 1100l bins is calculated based on BS 5906 (weekly volume of waste) as follows:

- i. Block 'A' consists of: 12no. apartments; 5No. 2-Bed/3P and 7No. 1-Bed/2P
Nos. of bedrooms in Building A = $5 \times 2 + 7 \times 1 = 17$ No. bedrooms

Average no. of bedroom in Block A = $17/12 = 1.42$

Weekly volume of waste in litres generated by occupants of Block A = Nos. of units x (70l x Average Nos. of bedroom + 30l) = $12 \times (70 \times 1.42 + 30) = 1553$ l of waste weekly

No. of 1100l wheelie bins required for Block A = $1553/1100 = 1.4 \Rightarrow 2$ No. of 1100l wheelie bins

- ii. Block B consist of: 12no. apartments; 8No. 2-Bed/3P and 4No. 1-Bed/2P
Nos. of bedrooms in Block B = $8 \times 2 + 4 \times 1 = 20$ No. bedrooms

Average no. of bedroom in Block B = $20/12 = 1.67$

Weekly volume of waste in litres generated by occupants of Block B = Nos. of units x (70l x Average Nos. of bedroom + 30l) = $12 \times (70 \times 1.67 + 30) = 1763$ l of waste weekly

No. of 1100l wheelie bins required for Block B = $1763/1100 = 1.6 \Rightarrow 2$ No. of 1100l wheelie bins

- B. Occupants of all apartments will be required to segregate their waste into the following categories within the apartments: 1 – Mixed Non Recyclables (MNR-'Black Bin'), 2- Dry Mixed Recyclables (DMR-'Green Bin'), 3- Organic Waste ('Brown Bin'), 4-Glass ('Blue Bin'). To help with this task each flat will be supplied within kitchen with i.e. undercounter unit contain 3-bin storage system (example below)



2. Location of Bin Stores

Please refer to the extract below from Walsh Associates Architects Site Plan Planning Drawing No. P-004, indicating locations of bin stores serving Blocks A and B.



3. Access to Bin Store

Please refer to HHP Consulting Engineers Planning drawing no. 20 D004-06C-P 'Proposed Swept Path Analysis – Refuse Truck Sheet 3 of 3 for illustration of tracking for refuse truck.

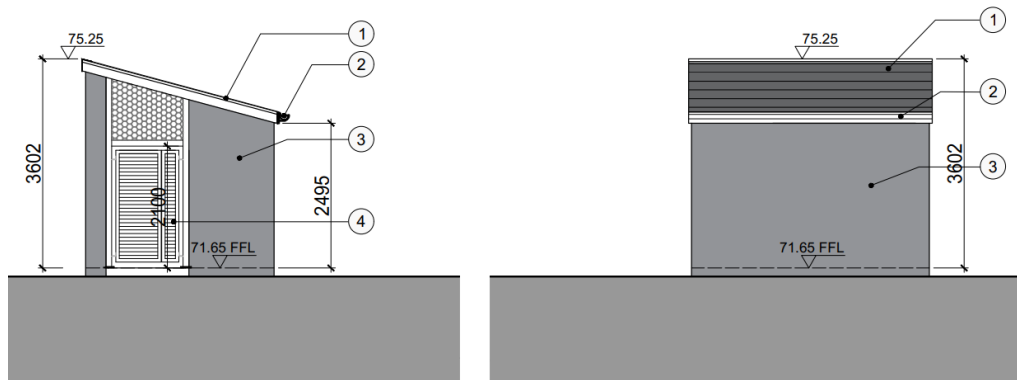


4. Environmental Impact Mitigation

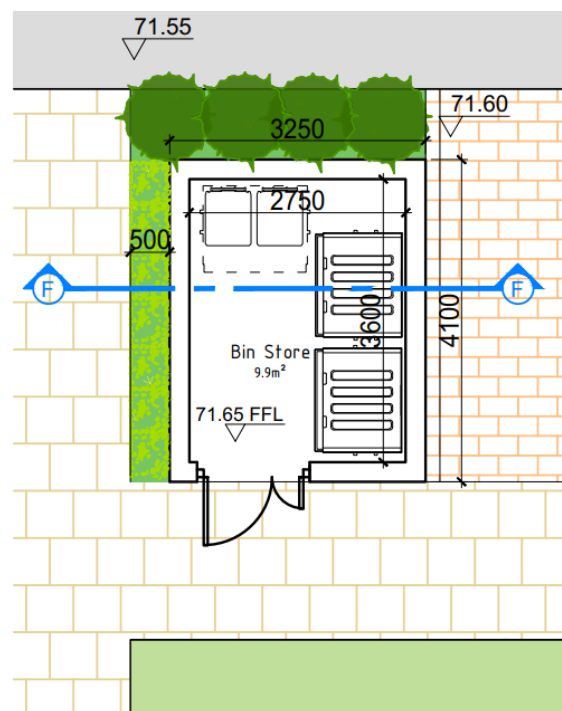
The bin stores are located 12 metres from Block B and 6 metres from Block A respectively.

Each of the bin stores is enclosed in a rendered masonry structure with selected tiled monopitch roof with passive ventilation via louver doors and screens and with a drain and gully provided within the floor slab of each bin store (refer illustrations below).

There are only 4 no. small windows in each of the west facing gables of Blocks A and B; all windows will be triple-glazed. Accordingly, the Apartment Block and bin stores have been designed having regard for the risk of odour or noise risks and to mitigate and screen against same.



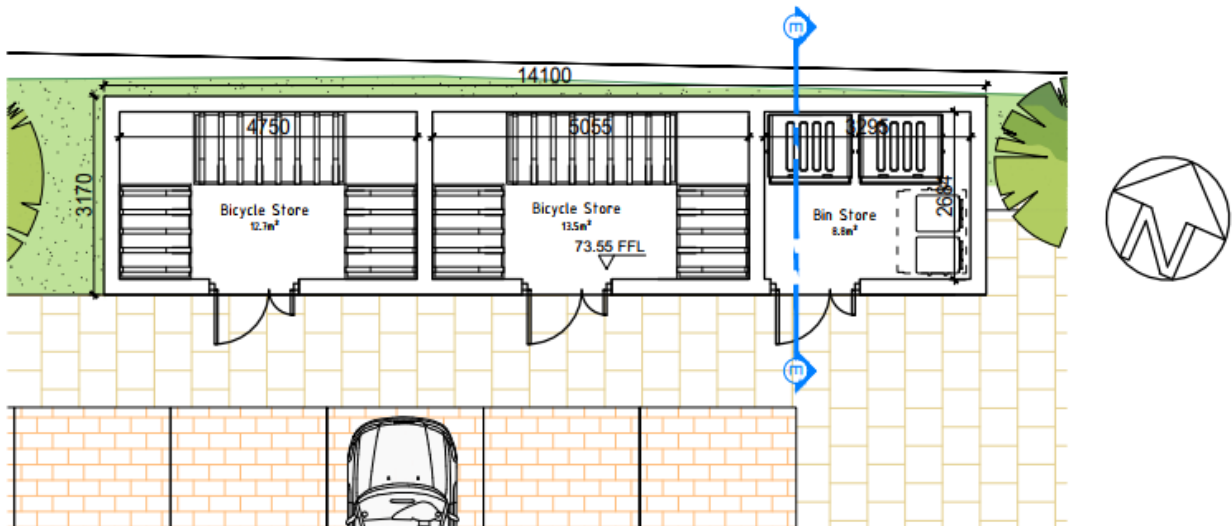
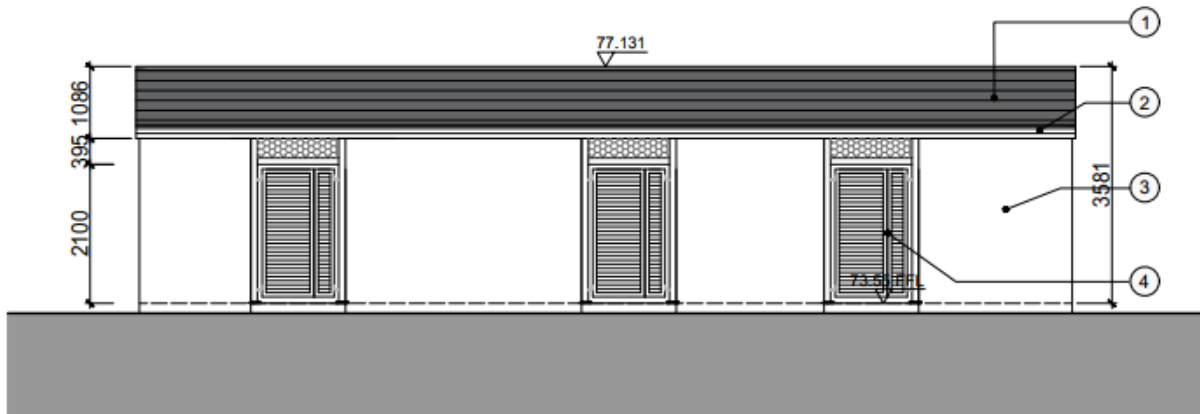
- ① Selected Tiled Roof
- ③ Selected Metal Louver Door
- ② Selected Rainwater System
- ④ Selected Coloured Render Finish



Bin Storage - Proposed Ground Floor Plan
Scale 1:100 @ A3

4. Environmental Impact Mitigation (cont.)

- ① Selected Tiled Roof
 - ② Selected Rainwater System
- ③ Selected Metal Louver Door
 - ④ Selected Coloured Render Finish



Bin/ Bicycle Storage - Proposed Ground Floor Plan

Scale 1:100 @ A3

5. Security of Bin Stores

The completed development will be managed by Sophia Housing Association CLG; the bin stores will be secured in bespoke structures and monitored by Sophia Staff.

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