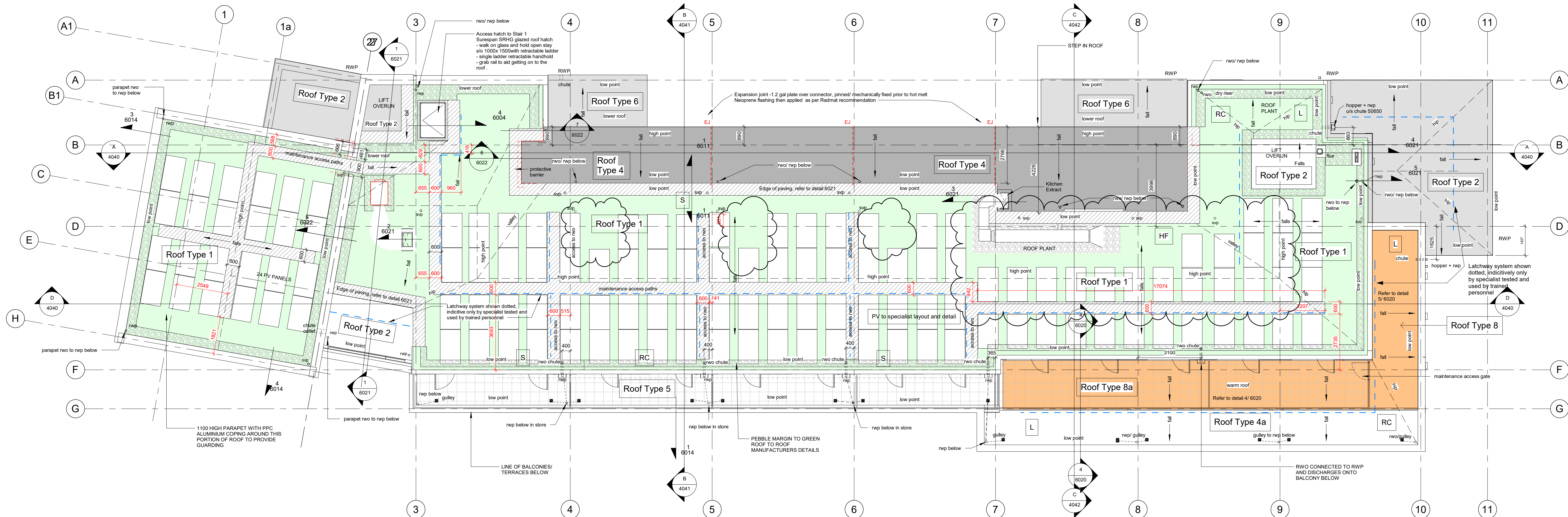
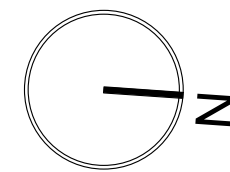


FALL RESTRAINT SYSTEM  
WITH RESTRICTED LENGTH  
LANYARD. LOCATION  
INDICATIVE AND SUBJECT TO  
SPECIALIST DESIGN.



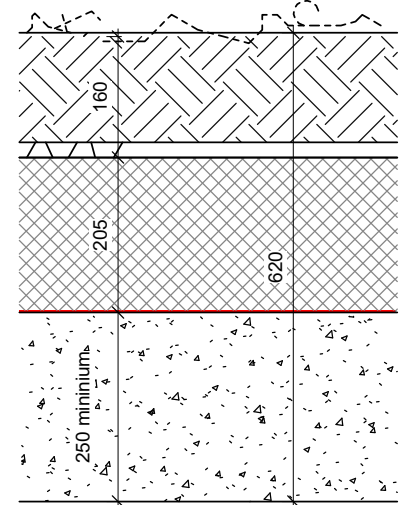
## 1 Roof Plan

1: 100

**Inverted Roof**  
250mm In Situ Concrete deck  
Esha Primer  
10mm PermaQuik PQ6100, including Standard Protection sheet  
205mm Protherm ULTRA to achieve 0.13 (155mm Gutter to Perimeter) to achieve 0.13w/m<sup>2</sup>k  
D25 Drainage board  
G11 Fleece  
120 - 200 varies (average 160mm) approx growing medium as seeded with the Flora 3 seed mix

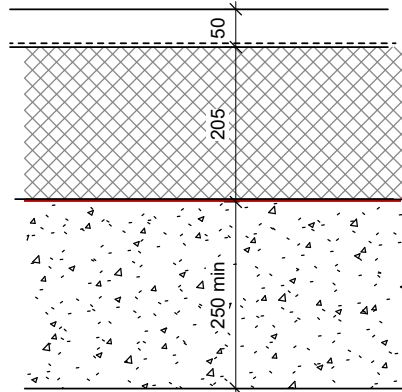
**Inverted Roof**  
250mm In Situ Concrete deck  
Esha Primer  
10mm PermaQuik PQ6100, including Standard Protection sheet  
205mm Protherm G to achieve 0.13 w/m<sup>2</sup>k  
Min-K Thermal Sheet  
50mm Ballast 20/40mm rounded Ballast

\*PV wind uplift ballasting requirements to be confirmed.



### Roof Type 1 Inverted Green Roof

Roof insulation to achieve a U-value of 0.13 w/m<sup>2</sup>k

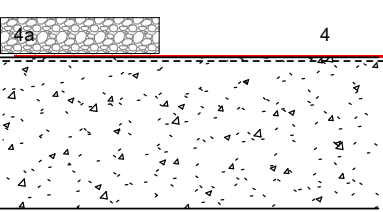


### Roof Type 2 Inverted Roof with ballast

Roof insulation to achieve a U-value of 0.13 w/m<sup>2</sup>k

Roof Type 3 not used

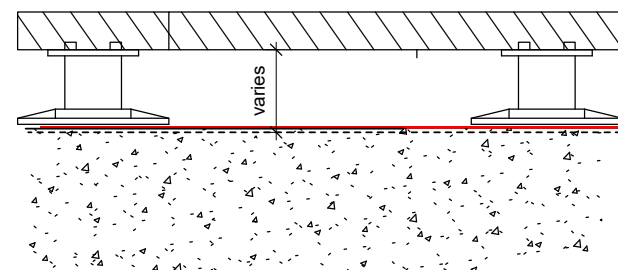
**Type 4**  
Cold un-insulated  
Thermally Broken Concrete slab 1:60 fall  
Esha Primer  
10mm PermaQuik PQ6100, including EshaGum 460 P14 protection sheet  
Pavers/Tiles on adjustable pedestals



### Roof Type 4 Walkway Roof

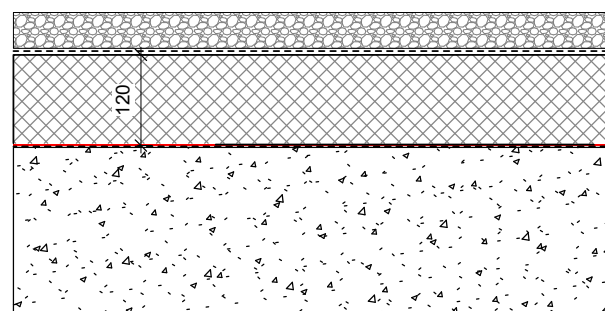
Roof Type 4a as above with pebbles

**Cold un-insulated**  
Thermally Broken Concrete slab 1:60 fall  
Esha Primer  
10mm PermaQuik PQ6100, including EshaGum 460 P14 protection sheet  
Pavers/Tiles on adjustable pedestals



### Roof Type 5 Walkway/Wintergarden Roof

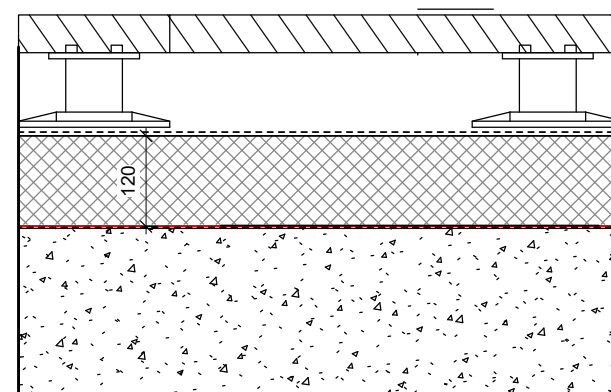
**Inverted Roof with ballast**  
250mm In Situ Concrete deck  
Esha Primer  
10mm PermaQuik PQ6100, including Standard Protection sheet  
120mm Protherm G12 to achieve 0.25 w/m<sup>2</sup>k  
Min-K Thermal Sheet  
50mm Ballast



### Roof Type 6 Low Level Roof

Roof insulation to achieve a U-value of 0.25 w/m<sup>2</sup>k

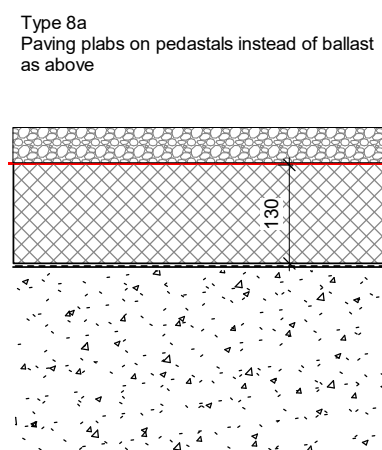
**Inverted insulated**  
250mm In Situ Concrete deck  
Esha Primer  
10mm PermaQuik PQ6100, including Standard Protection sheet  
120mm Protherm G12 to achieve 0.25 w/m<sup>2</sup>k  
Min-K Thermal Sheet  
Pavers on adjustable pedestals



### Roof Type 7 Walkway/ Wintergarden with room below

Roof insulation to achieve a U-value of 0.25 w/m<sup>2</sup>k

**Warm Roof U value = 0.17W/m<sup>2</sup>K**  
In Situ Concrete deck to falls  
Esha Primer  
EshaBase ALU Vapour Control layer  
130mm Protherm PIR to achieve 0.17 w/m<sup>2</sup>k  
EshaFlex 370 Plain  
EshaFlex 370 FireSafe Mineral  
50mm 20/40mm rounded Ballast



### Roof Type 8/ 8a Roof 5th floor

Roof insulation to achieve a U-value of 0.17 w/m<sup>2</sup>k

**CDM**  
General edge protection  
Current proposals are to allow for a mansafe system on the main roof to provide access to the PV's and rainwater pipes/ gutting. Specialist mansafe design to be developed

**Roof Access hatch**  
We have one access hatch on the roof, which has been confirmed as satisfactory by the fire consultant in terms of travel distances. Access hatch to incorporate handrails and grab poles

**5th Floor Roof**  
This 5th floor roof is now a pebble roof requiring no maintenance. Although we do still have guttering on this roof which will require some form of access for maintenance via gate from the Flat

**Key:**  
RC: Rope coil (3No)  
L: Log pile (3No)  
S: Sandy pile (3No)  
HF: Habitat Feature (1No) ("insect hotel")

Rev	Date	Description	Dwn	Ckd
J	25-11-19	PV layout updated to recent layout	PJ	JB
I	03-09-19	PV layout updated to latest PV drawing	PJ	JB
H	31-05-19	Roof updated to contractors comments, further detail references and notes added	PJ	JB
G	02-05-19	Updated to roof specification & PV layout	PJ	JB
F	01-03-19	Updated to contractor comments	PJ	JB
E	14-02-19	Roof plan updated following various comments	PJ	JB
D	19-01-09	Pv updated on roof	PJ	JB
C	03-12-18	Roof hatches updated	PJ	JB

Charlie Ratchford, Extra Care

Roof Plan

AA4796C-4007

Construction

Drawn MA Checked PJ Date 04/10/18 Scale @ A1 As indicated

REV J

## 2 Roof Types

1: 10

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020 8339 3600