

# Technical Submission

<b>Document No:</b> 16WS-PAC-TS-005	<b>Rev:</b> 01
<b>Project:</b> 16 Whitfield Street	<b>Project No:</b> 302
<b>To:</b> Make One Group	<b>Date:</b> 09/01/2025
<b>From:</b> Pace Roofing	

<b>Approval of the following equipment is required:</b>	
<b>Equipment: Access Hatch</b>	<b>Make: Surespan</b>
<b>Description/ location:</b> Main Roof – Green Areas	
<b>Design team spec refs/ Rev:</b> Q37	
<b>Design team Drg. Ref/Rev:</b> 47563-01-0001	
BauderGREEN-SUB-EM-BM-IM-(UK)-Extensive-Biodiverse-Intensive-Substrate-Technical-Data-Sheet	

1	Equipment Specifying schedule	N	6	Builders work requirements	Y
2	Manufacturers data	Y	7	Assembly & installation details	N
3	Design check calculations	Y	8	O&M instructions	N
4	Certified performance levels	Y	9	List of recommended spares	N
5	QA/ QC Documents	N			

<b>*Compliance</b>	The enclosed documents are specification compliant: Yes ✓/ No <input type="checkbox"/>
<b>Schedule of deviations</b>	1. Confirmation – SUB-BM UK Biodiverse Substrate to be used.
	2.
	3.
N.B in submitting this selected equipment we have not reviewed the total system and its performance against the design intent (to be changed dependant on D&B and designed projects) <b>Planned on site delivery:</b> tbc	

## MOG Reviewed & Checked

**Name:** \_\_\_\_\_ **Signed:** \_\_\_\_\_ **Date:** \_\_\_\_\_

## Overall Status of Tech Submission

**Name:** \_\_\_\_\_ **Signed:** \_\_\_\_\_ **Date:** \_\_\_\_\_

<b>Status A</b> – Proceed no comments
<b>Status B</b> – Proceed including any comments
<b>Status C</b> – Do not proceed – re-issue including comments

<b>Comments</b>

## TECHNICAL DATA SHEET

**BauderGREEN SUB-EM UK extensive substrate**

**BauderGREEN SUB-BM UK biodiverse substrate**

**BauderGREEN SUB-IM UK intensive substrate**

These lightweight, free draining substrates are green roof growing mediums for a broad range of different plant species. Being man-made, they have consistent characteristics that improves reliability in establishment of the vegetation.

### Intended Use

These FLL/GRO compliant substrates provide a free draining, growing medium for green roof systems. The lightweight substrates are designed for most vegetation (sedum, wildflower or grass blankets, specimen shrubs and trees, plug plants or seed). Additionally, the substrates provide aeration qualities with some inherent water retention.

SUB-EM UK extensive substrate



SUB-BM UK biodiverse substrate



SUB-IM UK intensive substrate



## PRODUCT INFORMATION AND TECHNICAL PERFORMANCE

Characteristic	Unit	SUB-EM UK Value	SUB-BM UK Value	SUB-IM UK Value
Maximum saturated weight	kg/m <sup>3</sup>	≤1,200	≤1,200	≤1,250
Typical supply weight	kg/m <sup>3</sup>	c. 900	c. 950	c. 1,000
Water storage	by vol	35%	35%	35%
pH value	pH	6 - 8.5	6 - 8.5	6 - 8.5
Bulk bag size	m <sup>3</sup>	1.25	1.25	1.25
Small bag size	litre	25	25	25
Material	Recycled crushed brick, expanded clay, shale, composted pine bark.			
Recycled content	≥ 95%			

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## TECHNICAL DATA SHEET

DELIVERY AND PACKAGING		
Packaging	1.25 m <sup>3</sup> bulk bag	Woven polypropylene single use bulk bags delivered on pallets if required.
	25 litre bags	Transparent polypropylene sacks, widely recycled - 40 per pallet
Storage		Avoid using crane straps prior to lifting to roof
Delivery method		24 pallets/bulk bags per articulated trailer
		(There is no recycled content to the packaging)

INSTALLATION GUIDANCE
<p>Normally installed above a filter fleece and drainage board product. Substrates are raked out to give an even coverage of the required depth after settlement.</p> <p>See Bauder's Green Roof Installation Guide for full details.</p>

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Intended use of this product should be verified with Bauder to ensure suitability and compliance with applicable guidance, regulations, legislations, project requirements, specifications, and installation techniques.

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