

Gridless 20ft Container – Domestic Supply

08/06/2023 by Daniel Kloser

	Cold Aisle	Warm Aisle	Shelf	Total
Essential Circuit				
Inverter 1kVA				1
Double Sockets	3	1	3	7
LED Lighting	1			1
Non-Essential				
Double Sockets	3	1	3	7
Lighting	Cold	Warm	Outside	Total
Lights	3	2	4	9
Switches	1	1	1	3

Bill of Materials

Description	Unit	Qty	Notes
4C 185mm ² Armoured Cable Gland	ea	3	Incoming supply cable – up to 3 cables
M16 x 185mm ² Lug	ea	12	Incoming supply cable – up to 3 cables (check bo
M12 x 70mm ² Lug	ea	24	PDU Supply cables (check bold size)
M10 x 16mm ² Lug	ea	20	AUX Supply Cables + Earthing (check bold size)
4C 70mm ² PVC Cable Gland	ea	6	PDU Supply cables
4C 16mm ² PVC Cable Gland	ea	2	Aux (fan) cables
3C 2.5mm ² PVC Cable Gland	ea	2	Essential and Non-Essential Supply
3C 1.5mm ² PVC Cable Gland	ea	1	Lighting Supply
Double Sockets	ea	14	Essential + Non-essential (3 x cold aisle, 3 x shel
Light Switch 3-Gang	ea	1	1-outside, 2-cold aisle, 3-warm aisle
Light Outdoor Fittings	ea	4	outside container, motion sensor lights?
Lights Indoor Fittings	ea	5	3 x cold aisle, 2 x warm aisle
LED Lights	ea	12	Including 3 spare
Cable Ladder 200 x 50	m	8	5 m along ceiling + 3m vertical
Cable Ladder 90deg	ea	1	from vertical to horizontal
Cable Trays 150 x 50	m	16	Vertical along Container Walls, 6 + 6 + 2 + 2 = 16
Cable Trays 100 x 25	m	6	Vertical down shelves
20mm PVC Conduit / Trunking	m	6	for light switch(es)
PVC Saddles	ea	6	to mount conduit
20mm PVC Glands	ea	28	for lights switches and sockets, network cable
3 x 1.5mm ² Flex Cable	m	31	for lighting (need to verify quantity)
3 x 2.5mm ² Flex Cable	m	18	essential and non-essential circuits
4 x 16mm ² Flex Cable	m	16	Aux Fan Supply (if required)
4 x 70mm ² Flex Cable	m	42	PDU Supply cables
4 x 185mm ² Armoured Cable	m	60	Assuming 3 x 20m Supply Cable (site specific)
1 x 16mm ² Earth Cable	m	14	Earthing of PDUs and Fans

Shelf

Earthing Points
Vertical Cable Trays

On Site Assembly

Outside Lights Mounting
Roof Assembly & Mounting