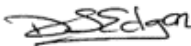


EAN DP 005

MATERIAL SPECIFICATION

EAN APPENDIX A FOR ENA ENGINEERING RECOMMENDATION
 G81-PART 5

MATERIAL SPECIFICATION FOR NEW INDUSTRIAL AND
 COMMERCIAL UNDERGROUND CONNECTIONS

Revision	Date	Changes	Author	Approval
0	28/11/16	First Working Draft	Julie Tyrrell	
1	06/12/17	Rebranding/ Lucy Switchgear added	Julie Tyrrell	

UDN APPROVED MATERIALS LIST

Description/ Application	Specification	Comments
11kV Mains Cables		
Triplex 95mm ² single-core 11kV mains cable with stranded or solid aluminium conductor, water blocked, XLPE insulation, 35mm ² copper wire screen, water swellable tape and red PE outer sheath	BS7870 4.10	
Triplex 185mm ² single-core 11kV mains cable with stranded or solid aluminium conductor, water blocked, XLPE insulation, 35mm ² copper wire screen, water swellable tape and red PE outer sheath	BS7870 4.10	
Triplex 300mm ² single-core 11kV mains cable with stranded or solid aluminium conductor, water blocked, XLPE insulation, 35mm ² copper wire screen, water swellable tape and red PE outer sheath	BS7870 4.10	
11kV XLPE to XLPE Joints		
11kV Triplex straight - 35 to 95mm ²	ENA ER C79 & ENA ER C81 and 6910 (for resin if applicable)	Three-phase joint
11kV Triplex straight - 150 to 300mm ²	as above	Three-phase joint
11kV Triplex Branch 95 to 185mm ²	as above	Three-phase joint
11kV Triplex Branch 240 to 300mm ²	as above	Three-phase joint
11kV Triplex pot end 95 to 185mm ²	as above	Three-phase joint
11kV Triplex pot end 240 to 300mm ²	as above	Three-phase joint
11kV XLPE Terminations		
95mm ² - 185mm ² - 300mm ² Heat Shrink Terminations	ENA ER C79, BS 7888, BS 4579	Indoor
Transformers		
11000/433V, 315 kVA, Single Ratio, Distribution Transformer	ENA TS 35-1	Unit Substation
11000/433V, 500 kVA, Single Ratio, Distribution Transformer	ENA TS 35-1	Unit Substation
11000/433V, 800 kVA, Single Ratio, Distribution Transformer	ENA TS 35-1	Unit Substation
11000/433V, 1000 kVA, Single Ratio, Distribution Transformer	ENA TS 35-1	Unit Substation
Transformer Mounted Ring Main Unit to UDN Specification		
Lucy VRN2a-TFL RMU Transformer Mounted; 2 x 630Amp Ring Switches and 250Amp Circuit Breaker Bottom Entry THM0042125 Top Entry THM0042479	ENA TS 41-36	Pre-wired for Actuators on both ring switches
Lucy VRN6a-Relay RMU Transformer Mounted; 2 x 630Amp Ring Switches and 630Amp Circuit Breaker Bottom Entry THM0042526 Top Entry THM0042766	ENA TS 41-36	Pre-wired for Actuators on both ring switches
Schneider RN2c -TLF - RMU Transformer Mounted; 2 x 630Amp Ring Switches and 250Amp Circuit Breaker	ENA TS 41-36	Pre-wired for Actuators on both ring switches
Schneider RN6c -VIP - RMU Transformer Mounted; 2 x 630Amp Ring Switches and 630Amp Circuit Breaker	ENA TS 41-36	Pre-wired for Actuators on both ring switches

Ring Main Unit for HV Metered Customers to UDN Specification		
Schneider RN2c-T1 TLF 250A RMU for up to 1.5MVA	ENA TS 41-36	Pre-wired for Actuators on both ring switches
Schneider RN2c-T2 VIP300 630A RMU up to 3.8MVA	ENA TS 41-36	Pre-wired for Actuators on both ring switches
Lucy VRN2a-TLF 250A RMU for up to 1.5MVA Bottom Entry THM0042037 Top Entry THM0042468	ENA TS 41-36	Pre-wired for Actuators on both ring switches
Lucy VRN6a- Micom 630A RMU for up to 3.8MVA Bottom Entry THM0042513 Top Entry THM0042786	ENA TS 41-36	Pre-wired for Actuators on both ring switches
HV Metering Unit to be mounted to RMU		
Lucy Air Metering Unit with dual ratio (11,000/6600/110V) 3 limb VT with triple ratio CTs (400/200/100/5) for customer metering applications. MU (Customer) 11/6.6kV up to 7.6MVA		3 limb, Dual ratio VT, top or bottom entry.
Lucy Air Metering Unit with dual ratio (11,000/6.6kV) 5 limb VT with triple ratio CTs (400/200/100/5) for generation metering applications. MU (Generation) 11/6.6kV up to 7.6MVA		5 limb, Dual ratio VT, top or bottom entry.
Low Voltage Transformer Mounted Cabinets to UDN Specification		
Schneider Fuse Cabinet 4 Way 800A EEE01R4-r6	ENA TS 37-2	800A Transformer Mounted LV Distribution Cabinet. Suitable for use on transformer up to 500kVA. The cabinet comprises of: 4 outgoing 630A ways; One set of 630A Litton Veam generator connections and Rogowski coil track fitted to fuseways
Schneider Fuse Cabinet 5 way 1600A EEE02R4-r5	ENA TS 37-2	1600A Transformer Mounted LV Distribution Cabinet. Suitable for use on transformer up to 1000kVA. The cabinet comprises of: 5 outgoing 630A ways; Two sets of 630A Litton Veam generator connections and Rogowski coil track fitted to fuseways
Schneider Fuse Cabinet 7 way 1600A EEE03R4-r6	ENA TS 37-2	1600A Transformer Mounted LV Cabinet containing 7 x 630A Distribution ways. Suitable for use on 800kVA and 1000kVA Transformers Only. Two sets of 630A Litton Veam generator connections and Rogowski coil track fitted to fuseways
Schneider ACB Fuse Cabinet NT16	ENA TS 37-2	1600A Transformer Mounted LV Cabinet containing 1 x 1600A ACB
Schneider 1600Amp TX Mounted 7 Way Fuse Cabinet modified with 1x800Amp Large Fused Service Way	ENA TS 37-2	1600Amp Transformer Mounted LV cabinet with 1x800Amp and 5x630Amp Distribution Ways. Two sets of 630A Litton Veam Generator Connections and Rogowski coil track fitted to fuseways
Schneider 1600Amp TX Mounted 7 Way Fuse Cabinet modified with 2x800Amp Large Fused Service Way	ENA TS 37-2	1600Amp Transformer Mounted LV cabinet with 2x800Amp and 3x630Amp Distribution Ways. Two sets of 630A Litton Veam Generator Connections and Rogowski coil track fitted to fuseways
Lucy Fuse Cabinet 4 Way 800A THM0069195	ENA TS 37-2	800A Transformer Mounted LV Distribution Cabinet. Suitable for use on transformer up to 500kVA. The cabinet comprises of: 4 outgoing 630A ways; One set of 630A Litton Veam generator connections and Rogowski coil track fitted to fuseways
Lucy Fuse Cabinet 5 way 1600A THM0069190	ENA TS 37-3	1600A Transformer Mounted LV Distribution Cabinet. Suitable for use on transformer up to 1000kVA. The cabinet comprises of: 5 outgoing 630A ways; Two sets of 630A Litton Veam generator connections and Rogowski coil track fitted to fuseways

Lucy Fuse Cabinet 6 way 1600A THM0069470	ENA TS 37-4	1600A Transformer Mounted LV Cabinet containing 7 x 630A Distribution ways. Suitable for use on 800kVA and 1000kVA Transformers Only. Two sets of 630A Litton Veam generator connections and Rogowski coil track fitted to fuseways
Lucy Fuse Cabinet 7 way 1600A THM0069210	ENA TS 37-4	1600A Transformer Mounted LV Cabinet containing 7 x 630A Distribution ways. Suitable for use on 800kVA and 1000kVA Transformers Only. Two sets of 630A Litton Veam generator connections and Rogowski coil track fitted to fuseways
Lucy Fuse Cabinet 8 way 1600A THM0069731	ENA TS 37-4	1600A Transformer Mounted LV Cabinet containing 8 x 630A Distribution ways. Suitable for use on 800kVA and 1000kVA Transformers Only. Two sets of 630A Litton Veam generator connections and Rogowski coil track fitted to fuseways
AcuLok Ganged Fuseway - 2 Gang modification THM0027410	ENA TS 37-4	2x630Amp Fuseways Ganged together with maximum 400Amp fuse in each way
AcuLok Ganged Fuseway - 3 Gang THM0027410	ENA TS 37-4	3x630Amp Fuseways Ganged together with maximum 400Amp fuse in each way
GRP Enclosures		
GRP Housing for Unit Substations	BS4800	
GRP Enclosures to House Metering or Cut-outs	BS4800	
LV Mains Cables		
95mm ² aluminium waveform mains cable with solid aluminium conductor, XPLE insulation and copper waveform combined neutral/ earth conductor with a black PVC sheath	BS 7870 (Part 3 - 40)	CNE 3 Core Cable PVC
185mm ² aluminium waveform mains cable with solid aluminium conductor, XPLE insulation and copper waveform combined neutral/ earth conductor with a black PVC sheath	BS 7870 (Part 3 - 40)	CNE 3 Core Cable PVC
300mm ² aluminium waveform mains cable with solid aluminium conductor, XPLE insulation and copper waveform combined neutral/ earth conductor with a black PVC sheath	BS 7870 (Part 3 - 40)	CNE 3 Core Cable PVC
95mm ² four-core aluminium waveform mains cable with solid aluminium conductor, XPLE insulation and copper concentric separate neutral/ earth conductor with an orange LSOH sheath	BS 7870 (Part 3 - 40)	SNE 4 Core Cable LSOH; Internal Use
185mm ² four-core aluminium waveform mains cable with solid aluminium conductor, XPLE insulation and copper concentric separate neutral/ earth conductor with an orange LSOH sheath	BS 7870 (Part 3 - 50)	SNE 4 Core Cable LSOH; Internal Use
300mm ² four-core aluminium waveform mains cable with solid aluminium conductor, XPLE insulation and copper concentric separate neutral/ earth conductor with an orange LSOH sheath	BS 7870 (Part 3 - 50)	SNE 4 Core Cable LSOH; Internal Use
LV Joints		
Waveform Mains service joint 70 to 300mm ²	ENA ER C79, ENA ER C81, BS 6910	Joint to be filled with 2 part polyurethane resin
Waveform to Waveform Mains Branch Joint	ENA ER C79, ENA ER C81, BS 6910	Joint to be filled with 2 part polyurethane resin
Waveform 3core to Waveform 4core Mains Transition Joint	ENA ER C79, ENA ER C81, BS 6910	Joint to be filled with 2 part polyurethane resin
Waveform Pot End	ENA ER C79, ENA ER C81	Heatshrink joint
Waveform to 185 to 300mm ² Pot End	ENA ER C79, ENA ER C81	Heatshrink joint
Waveform to Waveform Straight Joint	ENA ER C79, ENA ER C81, BS 6910	Joint to be filled with 2 part polyurethane resin

LV Link Boxes		
2- way untailed insulated link box, complete with pit frame and pavement cover, plus 3 x 400A Links	ENA ER C79, ENA ER C81, BS6910	2 part polyurethane resin (21 Litres)
4- way untailed insulated link box, complete with pit frame and pavement cover, plus 3 x 400A Links	ENA ER C79, ENA ER C81, BS6910	2 part polyurethane resin (21 Litres)
LV Splitters (SMDB's)		
Lucy J-Type 82mm, 1 way three-phase fuse board, max busbar rating 500A at 415V		one incoming and one outgoing way; accept cable size 95-300mm
Lucy J-Type 82mm, 2 way three-phase fuse board, max busbar rating 500A at 415V	THM0016910	one incoming and two outgoing way; accept cable size 95-300mm
Lucy J-Type 82mm, 3 way three-phase fuse board, max busbar rating 500A at 415V	THM0014014	one incoming and three outgoing way; accept cable size 95-300mm
Lucy J-Type 82mm, 4 way three-phase fuse board, max busbar rating 500A at 415V		one incoming and four outgoing way; accept cable size 95-300mm
Cut- Outs		
100A CNE Triple Pole Cut-out KIT	BS 7657	Kit contains 2xSP 100A cut-out, 1xprotection chamber, phase/PME labels
100A SNE Triple Pole Cut-out KIT	BS 7657	Kit contains 2xSP 100A cut-out, 1xSPN + E cut-out, 1xprotection chamber, phase
200Amp Combined Cut Out and CT cabinet 917hx508wx274d (on board 1200hx700wx292d)	EN 61000-6	200A Three-phase Heavy-duty Cut-out for PME building supplies with a removable link to convert to SNE and integral 200/5 CT's
400Amp Combined Cut Out and CT cabinet 1100hx508wx274d (on board 1200hx700wx292d)	EN 61000-6	200A Three-phase Heavy-duty Cut-out for PME building supplies with a removable link to convert to SNE and integral CT's 200/5 or 400/5
600Amp Combined Cut Out and CT cabinet 1100hx508wx274d (on board 1200hx700wx292d)	EN 61000-6	200A Three-phase Heavy-duty Cut-out for PME building supplies with a removable link to convert to SNE and integral CT's 200/5 or 400/5 600/5
HDC 200A Three-phase Heavy-duty cut-out	ENA TS 37-2 BSEN60439	200A Three-phase Heavy-duty Cut-out for PME building supplies with a removable link to convert to SNE.
HDC 400A Three-phase Heavy-duty cut-out	ENA TS 37-2 BSEN60439	Insulated 400A rated 3-Phase Heavy-duty cut-out suitable for PME connections, with a removable link facility for conversion to SNE where necessary
HDC 600A Three-phase Heavy-duty cut-out	ENA TS 37-2 BSEN60439	Insulated 600A rated 3-Phase Heavy-duty cut-out suitable for PME connections, with a removable link facility for conversion to SNE where necessary
Service Termination Cubicles		
Schneider LV 1000A Service Termination Cubicle with Micrologic 5 Protection and mechanical trip EB517-r6 Bottom Entry EB518-r3 Top Entry	ENA TS 37-2	Free standing supply cabinet for use in customer's LV intake room. Incorporates 1000/5A CT's as standard; Accepts 2 x 300mm ² or 4 Bunched 185mm ² cables; Busbar rating 1250 Amp
Schneider LV 1600A Link Termination cubicle for metering purposes only; trip required back to TX mounted ACB EBL16-r1	ENA TS 37-2	Freestanding cabinet for use in LV intake room, CT's included; 300mm ² or bunched 185mm ² cables accepted
82mm Industrial fuse-links for use in Cut-Outs		
100A BS 88-2:2007 Table 905 (82mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag
160A BS 88-2:2007 Table 905 (82mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag
200A BS 88-2:2007 Table 905 (82mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag
250A BS 88-2:2007 Table 905 (82mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag

355A BS 88-2:2007 Table 905 (82mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag
400A BS 88-2:2007 Table 905 (82mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag
315A BS 88-2:2007 Table 905 (82mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag
400A BS 88-2:2007 Table 905 (82mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag
92mm Industrial fuse links for use in Transformer Mounted Fuse Cabinets		
100A BS-2:2007 Table 905 (92mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Open Tag
160A BS-2:2007 Table 905 (92mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag
200A BS-2:2007 Table 905 (92mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Open Tag
250A BS-2:2007 Table 905 (92mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag
315A BS-2:2007 Table 905 (92mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Open Tag
355A BS-2:2007 Table 905 (92mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag
400A BS-2:2007 Table 905 (92mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Open Tag
500A BS-2:2007 Table 905 (92mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag
630A BS-2:2007 Table 905 (92mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 92mm centre For use on Radial Network and Services
800A BS-2:2007 Table 905 (92mm Centres)	BS88 Sec 3 BS1361	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 92mm centre For use on Radial Network and Services
LV Current Transformers		
200:5 7.5VA Class 0.5		Class 0.5 Rating 7.5VA Details Indoor Use Only Short Time Withstand Strength 46KA for 0.5 seconds Frequency 50Hz
400:5 7.5VA Class 0.5		Class 0.5 Rating 7.5VA Details Indoor Use Only Short Time Withstand Strength 46KA for 0.5 seconds Frequency 50Hz
600:5 7.5VA Class 0.5		Class 0.5 Rating 7.5VA Details Indoor Use Only Short Time Withstand Strength 46KA for 0.5 seconds Frequency 50Hz

800:5 7.5VA Class 0.5		Class 0.5 Rating 7.5VA Details Indoor Use Only Short Time Withstand Strength 46KA for 0.5 seconds Frequency 50Hz
1000:5 7.5VA Class 0.5		Class 0.5 Rating 7.5VA Details Indoor Use Only Short Time Withstand Strength 46KA for 0.5 seconds Frequency 50Hz
Meter Boards, Boxes and Accessories		
Three Phase Internal Meter Board; 650mm (h)x460mm (w)x12mm		Three phase 100A supplies 12mm meter board for mounting electrical service equipment such as cut-outs - Fired Rated
Metering Termination Box for COP 3 (HV 1MW - 10MW)		
Schneider Metering Termination Box for COP 5 (HV up to 1MW)		
Schneider Metering Termination Box for COP 5 (LV up to 1MW)		
12core 2.5mm SWA multicore	COP5/COP3 Meter cable	Top or Bottom entry to Metering cabinet
Miscellaneous		
Rubber Fluted Switchboard Mat Tested to 1500V to BS 921/1976 (2m x 914mm wide x 9.5mm thick)		Thick Fluted 9.5mm Internal Substations Only
Log book holder and log book		Galvanised or Plastic Box
Substation Name/Number Label		Rigid - Includes 'Utility Distribution Networks', Danger of Death sign and SF6 sign, pre-drilled
Substation Name/Number Label - Set of 4No fixing bolts		4No - M6 x 25mm BZP panhead bolts, Nylock nuts & penny washers
Substation 'Danger of Death' Label		
Engraved Destination labels for the Ring Main Unit		150 x 50 'Black Letters on White Background'
Engraved Destination labels for the LV Board or Cabinet		75 x 50 'Black Letters on White Background'
Owned and Operated Label		Self Adhesive
PME Cut Out Label		Self Adhesive
SNE Cut Out Label		Self Adhesive
Substation Door Padlock		ABUS SS50P5KA
System Padlock		ABUS LN4KA
Dual Locking Device for Substation Doors		Tayhope Dual Multi-Latch
Lock Out Box for Inside Substation		
Nortroll Earth Passage Indicator		Cabletroll 2310 ?
Solid Core Balance CT 60/1A for Nortroll EFI		
Earthing		
Copper Bond Extensible Earth Rod 1200mm x 16mm diameter	ENA TS 43-94 BS EN 50164-2 BS 7430	
Couplers, Driving Stud, Connectors & Clamps	ENA TS 43-94 BS EN 50164-2 BS 7430	
Bonding 16mm PVC covered stranded copper cable	Green/Yellow	(BS 6004)
Bonding 35mm PVC covered stranded copper cable	Green/Yellow	(BS 6004)
Bonding 70mm PVC covered stranded copper cable	Green/Yellow	(BS 6004)
Bonding 120mm PVC covered stranded copper cable	Green/Yellow	(BS 6004)
Bare Stranded 70mm Hard Drawn Copper		BS 7884 - C101(C100/C102) BS EN 13601 CW004A (CW003A/CW005A)
Bare Stranded 120mm Hard Drawn Copper		BS 7884 - C101(C100/C102) BS EN 13601 CW004A (CW003A/CW005A)

Civils		
LV and HV Cable Warning Marker Tape	ENA TS 12-23	Marked with Utility Distribution Networks
50mm coilable service duct (50m)	ENA TS 12-24 BSEN12613	Used for three-phase 100A service cables
125mm INTERNAL Twinwall rigiduct (6m length)	ENA TS 12-24 BSEN12613	LV, 11kV and 22kV mains cables
150mm INTERNAL Twinwall rigiduct (6m length)	ENA TS 12-24 BSEN12613	LV, 11kV and 22kV mains cables
Preferred Suppliers:		
Lucy Electric UK Limited Howland Road Thame Oxfordshire OX9 3UJ	Unit Substations, Ring Main Units, HV Metering Units, Transformer LV Pillars, Multi Service Distribution Boards (MSDB's), Sub Main Distribution Boards (SMDB's), Cut Outs	
Schneider Electric Ltd 123 Jack Lane Leeds LS10 1BS	Unit Substations, Ring Main Units, HV Metering Units, Transformer LV Pillars, Metering Service Termination Cubicles, Multi Service Distribution Boards (MSDB's), Sub Main Distribution Boards (SMDB's)	
Wolseley UK Limited T/A Utility Power Systems Carrwood Road Chesterfield Trading Estate Chesterfield Derbyshire S41 9QB	HV & LV Cables, HV & LV Joints, Cut Outs, Link Boxes, Fuses, HV & LV Cable Warning Marker Tape, Meter Boxes, Labels, Rubber Mat, GRP Grating, Earthing Materials, Substation GRP Doors, Ducting	
Cable Services Rhosddu Industrial Estate Rhosrobin Wrexham LL11 4YZ	HV & LV Cables, HV Terminations, HV & LV Joints, Cut Outs, Link Boxes, Fuses, HV & LV Cable Warning Marker Tape, Meter Boxes, Labels, Rubber Mat, GRP Grating, Earthing Materials, Substation GRP Doors, Ducting, Rayflate Duct Seal, CSD Rise Duct Seal	
Jointing Technologies Ltd Woking Business Park Albert Drive Woking GU21 5JY	HV Terminations, Earthing Materials, Rayflate Duct Seal	
ETS Cable Components Units 4 & 5 Red Lion Business Park Red Lion Road Tolworth Surrey KT6 7QP	HV Terminations, Earthing Materials, Rayflate Duct Seal, FiloForm Duct Seal	
Plas Tec (Southern) Ltd 102 - 120A North Lane Aldershot Hampshire GU12 4QN	Ducting	
Plaspipes Ltd Vermeulen's Heathrow Horton Road, Stanwell Moor Middlesex TW9 6AE	Ducting	
Earthmet Ltd Vulcan Industrial Estate Leamore Lane Walsall WS2 7BZ	Earthing Materials	
Alcomet Ltd Unit 5 Gibbons Industrial Park Dudley Road Kingswinford West Midlands DY6 8XF	Earthing Materials	
Morgan Marine Ltd Llandybie Ammanford Camarthenshire SA18 3GY	GRP Substation, Roadside Pillars	
Envico Engineering Ltd Nantyffin Road (South)		

Enterprise Park Llansamlet Swansea SA7 9RG	GRP Substation, Roadside Pillars
MCL Utility (Industrial Enclosures) Ltd Units 3 & 4 Monarch Works Elswick Road Fenton Industrial Estate Stoke on Trent ST4 2SH	GRP Substation
Stormking Plastics Amington Point, Sandy Way Amington Industrial Estate Tamworth B77 4ED	GRP Substation Roof, GRP Substation Doors
Sunray Engineering Ltd Kingsnorth Industrial Estate Wootton Road Ashford Kent TN23 6LL	Steel Substation Doors, and Louvres
Fibregrate Composite Structures Ltd Wass Way Durham Lane Industrial Park Eaglescliffe Stockton on Tees TS16 0RG	GRP Trench Covers
Filoform UK Ltd , Reading, Berks RG7 1PQ CSD Sealing Systems , Cramlington NE23 1WQ	Duct Sealing