







Product Catalogue



Welcome to the latest edition of the A. N. Wallis Product Catalogue, which features our complete range of industry leading Earthing, Exothermic Welding, Surge and Lightning Protection products.



This year we have increased our already comprehensive range with the addition of a number of new lines, all of which have been specifically developed for the ever changing needs and requirements of our customers. New illustrative images, an updated layout and exceptionally detailed product information tables, make product specifying simple - enabling you to find the right solution, first time.

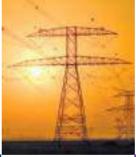
All A. N. Wallis products are manufactured in Nottingham (U.K.) and are distributed to customers across the world, with many being used on extremely prestigious projects including:

- The Yas Marina Grand Prix Circuit in Abu Dhabi
- · Hospitals in Jordan, Kuwait and Qatar
- Petrochemical Installations in Saudi Arabia, Egypt and Oman
- Mosques in Bahrain and Kuwait
- Telecommunication Towers in Nigeria and Thailand
- · Rail Installations in Hong Kong and the U.K.
- · Airports in UAE, Oman and Europe
- The world's largest women's university in Riyadh -Saudi Arabia
- Substations in Kuwait, Malaysia, Dubai, Abu Dhabi and the U.K.
- The Presidential Palace in Abu Dhabi

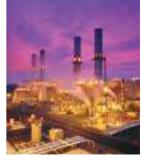
These are just a few projects that are benefitting from lifelong protection through the use of A. N. Wallis products - why not add your project to the list?

We are constantly striving to provide our customers with the highest quality products, supported by first class customer service. To help us achieve this, we welcome your feedback, comments and suggestions. Please visit our website www.an-wallis.com and register your feedback online.







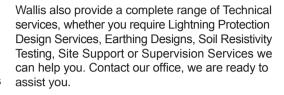


WALLIS

Welcome to Wallis

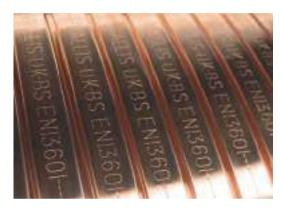
Founded over 70 years ago, we have a long tradition of providing first class Earthing, Lightning Protection and Low-Voltage Surge Protection Products.

What's more, we have as broad a range of products as can be found anywhere in the industry.





All Wallis products are manufactured and tested to British, European and International standards BS EN 62305 and BS 7430. Manufacturing and headquarters are all in Nottingham. UK, with branch offices in Dubai, U.A.E. and Kuala Lumpur, Malaysia. Wallis are accredited with and quality audited to BS EN ISO 9001:2015 and BS OHSAS 18001:2007.



A commitment to excellent customer service also drives what we do. Part of this is ensuring that we maintain good stock levels so you can rely on same-day despatch for many of our products.











Introduction



Our catalogue continues to evolve - following customer demand we have created a smaller, more portable version without compromising on content. Each edition contains more product information than its predecessor, creating an invaluable resource for all of our customers.

A call for a new design was also heard. Working closely with specialist designers we have produced a catalogue that is not only attractive to look at, but includes all the information you can ever need when specifying A. N. Wallis products.

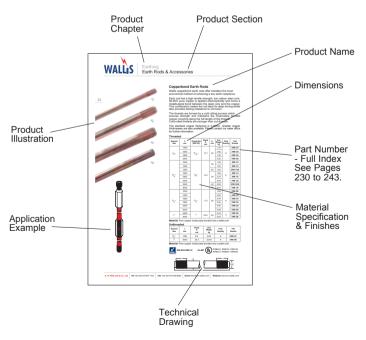
We know our customers are key to our continued success, so when you talk, we listen. We work tirelessly to ensure we provide you with only the highest quality products backed by exceptional customer service. Because of this you can be assured you are in safe hands and will receive a service that is second to none. Give A. N. Wallis a call today and see why we are the new market leader in Earthing & Lightning Protection, Exothermic Welding and Surge Protection Products.

A. N. Wallis, another decision well made.



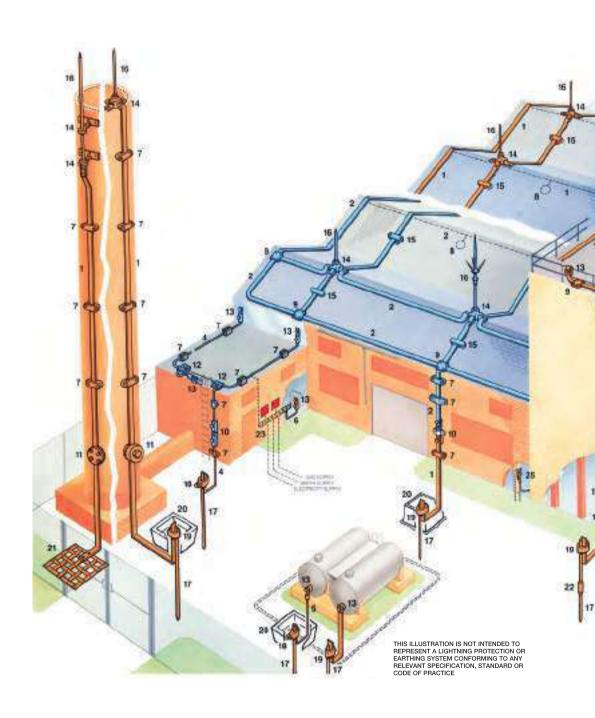
Using This Catalogue

This catalogue is designed to be as easy to use as possible. To help find the product you need, there is an alphabetical product index, a part number index and a product locator. Every product featured has its own technical and application drawings and a detailed product table. Materials specifications are also included.

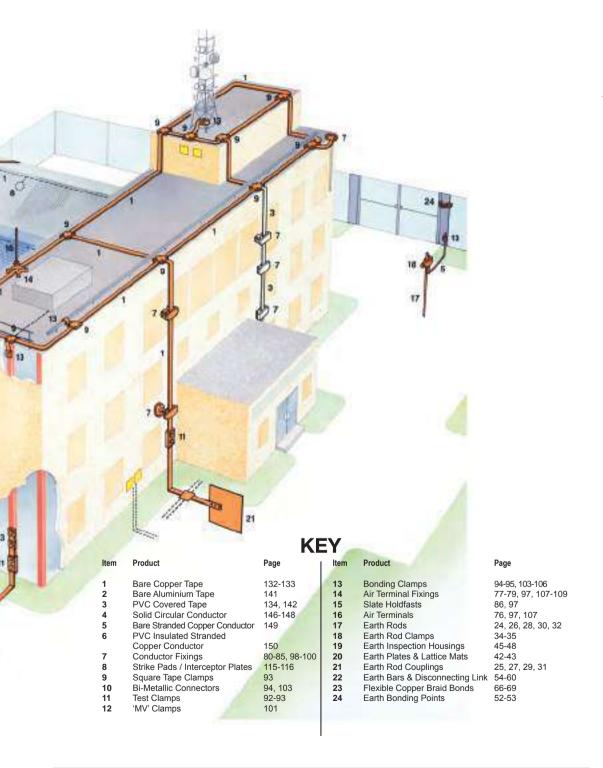












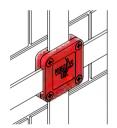
Introduction to Lightning Protection

Structural Lightning Protection

Structural Lightning Protection systems are installed to minimise the risk of damage to the external & internal parts of the structure, including the electrical and electronic equipment from a lightning strike and reducing the risk of injury to humans by safely discharging the high voltage to the earth system. The external lightning protection attracts the lightning discharge and conducts it safely to earth and the internal lightning protection, with use of transient surge protectors, minimises the damage to sensitive equipment and bonding of conductive services ensure a safe path to earth.

A complete Lightning Protection System (LPS) can only be achieved when both safety measures of Internal & External LPS are employed to the structure based on the Risk Assessment.

For full technical details A. N. Wallis offers a Consultants Handbook and Risk Assessment Management software. Contact the Sales Team for further details.



Lightning Protection Strategy

The normal strategy in achieving protection is to capture the lightning at a preferred point by the use of air terminations and conducting it via low impedance down conductors and earth electrodes to a low resistance earth of less than ten ohms. Air terminations and down conductors are spaced at regular intervals to form a mesh of conductors around the perimeter of the building and roof, known as a Faraday cage, and are joined together by specially produced clamps and fixings or welding.

Lightning Protection System Design Considerations

A LPS is designed according to geographical location, local terrain, soil conditions, size and height of building, type of material used in construction,

type of material stored in the building, use of building and is based on established standards for risk assessment.

The Risk Assessment needs to be carried out prior to the design of the structural LPS to determine the Class of LPL required based on the IEC / BS EN 62305 standards or internationally accepted standards.

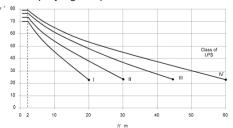
Air Termination Networks

Based on the determined Class of LPL conductor spacing's can be selected as identified below:

Class of LPS	Roof Mesh Conductors W (Width - Metres)	Rolling Sphere Radius r (Radius - Metres)	Protection Angle a (Degree)	Down Conductor Spacing (Metres)
I	5 x 5	20		10
II	10 x 10	30	Refer Chart	10
III	15 x 15	45	Refer Chart	15
IV	20 x 20	60		20

To calculate the areas of protection the Rolling Sphere technique can be employed. The zone of protection determined by the methods requires protection through the Roof Mesh method and Protective Angle Methods.

Roof Mesh Method – Simple and direct implementation of conductor spacing's based on the Class of LPS, e.g. Class I LPS – Roof conductors are to be spaced in a grid of 5 x 5 metres throughout the flat roof plane. The Protective Angle Method is based on the relativity between the height of protection required to the prescribed angle of protection in conjecture with the height to be protected which can be obtained from the chart below. Key areas or strike points need to be determined before employing the protection measure.



Introduction



Down Conductors

Down conductor spacing has to be in accordance with the Class of LPS which is determined and to be adopted based on the table, E.g. Class I LPS - Down conductors to be spaced at every 10 metres of the structure around the periphery of the structure. The spacing should be carried out as evenly as possible on the periphery starting at the corners and at the shortest distance to earth.

Sufficient separation distance 's' need to be maintained when down conductors are placed in overhangs and care to be taken to avoid re-entrant loops.

Farth Terminations & Networks

The information contained in this section is primarily for LPS earthing.

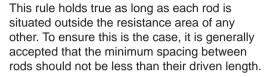
For Earth Termination systems two basic types of earth electrode arrangements are applied. Type A earthing arrangement is suitable for low structures and existing structures. Type B earthing arrangement is usually followed throughout.

Fach down conductor needs to be connected to an earth electrode to form the earthing with a minimum of two. The minimum length of earth rods that are required to be driven into ground is 2.4 metres. Earthing system contains of horizontal earth electrodes and vertical earth electrodes. Earth rods may need an earth inspection housing for periodic testing of earth resistance.

Resistance to Earth

To maintain a safe earth system, it is recommended that the earth rods to ground resistance values are less than 10 ohms. Earth resistance values are measured at low frequency.

A single earth rod may not achieve the required resistance figure and several may need to be fitted to achieve this; their combined resistance is proportional to the reciprocal of the individual rod resistances to earth.



The expected number of rods required to obtain a particular resistance value, e.g. ten ohms, can be roughly calculated.



To do this the soil resistivity needs to be taken into consideration. A soil resistivity test will need to be performed.

There are several methods used to obtain a lower resistance value:

More rods can be driven.

Rods can be driven deeper.

Rods of a larger diameter can be used.

Ring conductors connecting rods together underground can be used.

Where deep driving is not possible shorter rods with a larger diameter can be used; copper earth mats and earth plates can be used in place of earth rods.

A "crows foot" configuration can be used where a parallel connection is not possible.

Where high resistance soil conditions are a problem soil conditioning agents can be used to backfill rod holes. Conductive concrete can be used to backfill an earth mat. Both effectively increase an electrodes cross sectional area and therefore reduce its resistance to earth.

The international standards also specify the recommended materials used for all earthing conductors and their dimensions.



It is common practice to use the buildings natural structural steelwork and bonding it to the LPS to further improve its ability to conduct lightning and fault currents to earth; prior permission may be required.

The information contained in this section is intended as a guide and should not be used to perform designs. A. N. Wallis does not accept responsibility for errors or omissions. Detailed information on LPS design is contained in internationally recognised European and British LPS standards.

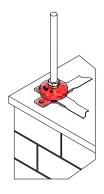


Joints

Joints should be mechanically effective, all joints other than welded ones are a potential discontinuity, and care should be taken to ensure contact surfaces are clean and that fixing clamps are tight and well protected from corrosion, which can occur if dissimilar metals are joined. Ideally there should be as few joints as possible in an LPS design.

Maintenance & Life of an LPS

It is important to properly maintain an LPS to ensure it retains its ability to conduct the same current carrying capacity as it did when it was originally installed. Earth rod resistances should be regularly checked.



Corrosion and fault currents can cause high resistance joints leading to overheating. However, if an LPS is correctly installed and maintained it should last for many years.





Introduction to Product Standards

The International Electrotechnical Commission (IEC) is the body responsible for implementing international standards. Its technical committee comprises of representatives from various member national standards, including The European Committee for Electrotechnical Standardisation (CENELEC). IEC and CENELEC generally work in parallel, with CENELEC members voting to adopt new IEC standards as CENELEC standards. The important fact with CENELEC standards is that, by rule, the member countries are bound to adopt them as a national benchmark. In the process of adopting these standards, minimum changes are permitted. In-country clauses (exceptions or changes) can only be made under very strict circumstances. When such standards are adopted at the national level, any conflicting national standard must be withdrawn.

At each level (International, European, National) a different naming prefix convention is used, for example:

IEC 62561-1:2017 (the IEC version).
EN 62561-1:2017 (CENELEC adopted version of the above).
BS EN 62561-1:2017 (British Standard adopted version of the above).

All materials and components used in both Internal and External Lightning Protection systems must be designed, manufactured and tested for their respective electrical, mechanical and environmental (chemical) standards. Manufacturers and suppliers of lightning protection components should be able to provide test reports compliant to these standards. More importantly, the classification (class and environment) should be stated together within the scope of testing. Please note, the approval is only valid for the combinations of conductor sizes and configurations tested. A. N. Wallis has successfully completed testing on a wide range of products, the results of which are available upon request.

The below series of BS EN 62561 standards deal with the requirements and tests for lightning protection system components (LPSC) used in the installation of lightning protection systems (LPS) designed and implemented in accordance with the IEC / BS EN 62305 series of standards.

BS EN 62561-1:2017: Lightning Protection System Components (LPSC) – Part 1: Requirements for Connection Components

The above standard specifies the requirements and tests for all metallic connection components that form part of the lightning protection system (LPS). These include connectors, bridging components, bonding components, expansion pieces and test joints. The testing classifies the products according to their capability to withstand lightning current by an electrical test:

- Class H Heavy Duty (tested with 100 kA 10/350 µs), or
- Class N Normal Duty (tested with 50 kA 10/350 μs)

A classification is also made according to the installation of the component:

- · Embedded in Concrete
- · Not Embedded in Concrete.





BS EN IEC 62561 - 2:2018: Lightning Protection System Components (LPSC) – Part 2: Requirements for Conductors and Earth Electrodes (IEC 62561-2:2018).

The above standard specifies the requirements and tests for:

- Metallic conductors (other than "building natural down conductors") that form part of the air termination system and down conductor system
- Metallic earth electrodes that form part of the earth termination system.

It should be noted that the metallic conductor requirements also cover air termination conductors, air-terminals (rods), earth lead in rods, down conductors and earth conductors.

The tests include measurements to confirm compliance with minimum size requirements, resistivity and environmental testing. Earth electrodes are subjected to tests including bend tests, adhesion tests, and environmental tests. Coupled earth electrodes and the coupling device are also subjected to hammer compression (impact testing).

BS EN 62561 - 3:2017: Lightning Protection System Components (LPSC) – Part 3: Requirements for Isolating Spark Gaps

The above standard specifies the requirements and tests for Isolating Spark Gaps (ISG) for lightning protection systems. ISGs can be used to indirectly bond a lightning protection system to other nearby metalwork where a direct bond is not permissible due to functional reasons, for example, earth termination systems of power installations; earth termination systems of telecommunication systems; rail earth electrode of AC and DC railways; installation with cathodic protection; and stray current protection.

BS EN 62561 - 4: 2017: Lightning Protection System Components (LPSC) – Part 4: Requirements for Conductor Fasteners

The above standard specifies the requirements and tests for metallic and non-metallic conductor fasteners that are used in conjunction with, and to secure the air-termination of, down conductor and earth termination systems. This standard does not cover the fixing of conductor fasteners to the fabric/membrane/gravel roofing of structures due to the vast number and types used in modern day construction.

BS EN 62561 - 5:2017: Lightning Protection System Components (LPSC) – Part 5: Requirements for Earth Electrode Inspection Housings and Earth Electrode Seals

The above standard specifies the requirements and tests for earth pits and earth seals made of steel, plastic, and concrete among other materials. Load-bearing capacity and seal quality are the key tests covered in the standard:

- Earth Electrode Inspection Housing (Earth Pit) Metallic and Non-metallic enclosure that houses the down conductor/earth termination connection for inspection and testing purposes; consisting of a housing and a removable lid
- Earth Electrode Seals (Earth Seals) Water Pressure Seal used in conjunction with an earth electrode that passes through the foundation of the building, so preventing ground water from entering.



BS EN IEC 62561 - 6:2018: Lightning Protection System Components (LPSC) – Part 6: Requirements for Lightning Strike Counters (LSC)

The above standard specifies the requirements and tests for devices intended to count the number of lightning strike pulses flowing in a conductor. This conductor may be part of a lightning protection system (LPS) or connected to an SPD installation or other conductors, which are not intended to conduct a significant portion of lightning currents. Lightning Strike Counters are classified according to their application, threshold currents, maximum counting and withstand current. Mechanical, Electrical, and Corrosion tests along with UV radiation tests, IP rating tests, and Electromagnetic compatibility are addressed for LSC in this standard.

BS EN IEC 62561 - 7:2018: Lightning Protection System Components (LPSC) – Part 7: Requirements for Earthing Enhancing Compounds

The above standard specifies the requirements and tests for earth enhancing compounds producing low resistance of an earth termination system. The material of the earth-enhancing compound shall be chemically inert to subsoil and not pollute. It should provide a stable environment in terms of physical and chemical properties and exhibit low resistivity, as well as not be corrosive to the earth electrodes/conductors being used in the earth termination system. Backfill materials are not part of this standard. Tests included in the standard are conductivity, chemical (pH, solubility in acid environments), and composition (sulfur).

BS EN 62305 - 4: 2011: Protection against lightning – Part 4: Electrical and Electronic Systems within the structures

The above standard provides information for the design, installation, inspection, maintenance and testing of electrical and electronic system protection (i.e. SPM – Surge Protection Measure) to reduce the risk of permanent failures due to Lightning Electromagnetic Impulse (LEMP) within a structure. Protection of electronic and electrical systems against LEMP, which is the overall electromagnetic effects of lightning, including conducted surges (transient overvoltages and currents) and radiated electromagnetic fields, is an integral part of this standard. Lightning current and overvoltage SPD's, bonding and shielding form a total Surge Protection Measure (SPM) to effectively protect sensitive electronic and electrical systems from both lightning and switching transients.

IEC 61643 - 11: Surge Protective Devices connected to Low-Voltage power systems - Requirements and Test Methods

The above standard describes the requirements and test procedures of surge protective devices (SPDs) to ensure protection against the effects of direct and indirect lightning strikes or other transients.

IEC 61643 - 12: Surge Protective Devices connected to Low-Voltage Power distribution systems – Selection and Application Principles

The above standard must be used in conjunction with IEC 61643 -11. It provides information on the selection of Surge Protective Devices and information on the selection and co-ordination of SPDs. It also provides the principles of selection, operation, place of installation and co-ordination of SPDs connected to 50/60 Hz a.c. systems and equipment with nominal voltages up to 1000V (r.m.s).





IEC 61643 - 21: Surge Protective Devices connected to Telecommunications and Signalling Networks – Performance Requirements and Testing Methods

The above standard describes the requirements and test procedures for Surge Protection Devices used for the protection of telecommunication and signaling networks including data networks, alarm systems, voice transmission networks, computer communication interfaces, process control system, security systems.

IEC 61643 - 22: Surge Protective Devices connected to Telecommunications and Signalling Networks – Selection and Application Principles

The above standard must be used in conjunction with IEC 61643 -21. It provides information on the selection and application of Surge Protective Devices used to protect telecommunications and signalling networks.

OVERVIEW OF LPS AND LPSC STANDARDS FOR DESIGNING AND MATERIAL TESTING: -

Standard	Title	Туре
BS EN 62305 - 1	Protection against lightning – Part 1: General Principles	Design Standard
BS EN 62305 - 2	Protection against lightning – Part 2: Risk Management	Design Standard
BS EN 62305 - 3	Protection against lightning – Part 3: Physical Damage to Structures and Life Hazard	Design Standard
BS EN 62305 - 4	Protection against lightning – Part 4: Electrical and Electronic Systems within Structures	Design Standard
BS EN 62561 - 1	Lightning Protection System Components (LPSC) – Part 1: Requirements for Connection Components.	Material Testing Standard
BS EN IEC 62561 - 2	Lightning Protection System Components (LPSC) – Part 2: Requirements for Conductors and Earth Electrodes.	Material Testing Standard
BS EN 62561 - 3	Lightning Protection System Components (LPSC) – Part 3: Requirements for Isolating Spark Gaps.	Material Testing Standard
BS EN 62561 - 4	Lightning Protection System Components (LPSC) – Part 4: Requirements for Conductor Fasteners.	Material Testing Standard
BS EN 62561 - 5	Lightning Protection System Components (LPSC) – Part 5: Requirements for Earth Electrode Inspection Housings and Earth Electrode Seals.	Material Testing Standard
BS EN IEC 62561-6	Lightning Protection System Components (LPSC) – Part 6: Requirements for Lightning Strike Counters.	Material Testing Standard
BS EN IEC 62561-7	Lightning Protection System Components (LPSC) – Part 7: Requirements for Earthing Enhancing Compounds.	Material Testing Standard
IEC 61643 - 11	Surge Protective Devices connected to Low-Voltage Power systems.	Testing Standard
IEC 61643 - 12	Surge Protective Devices connected to Low-Voltage Power distribution systems.	Selection & Application Standard
IEC 61643 - 21	Surge Protective Devices connected to Telecommunications and Signalling Networks.	Testing Standard
IEC 61643 - 22	Surge Protective Devices connected to Telecommunications and Signalling Networks.	Selection & Application Standard



Lightning Protection Contents





Lightning Protection

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ATA 120M



Taper Pointed Air Rods

Air rods form an important part of the air termination network of a lightning protection system. All of our air rods are supplied with a locknut enabling the rod to be locked tight against the conductor. Please see pages 77 - 79 for further information on our range of saddles, brackets and couplings.

Copper Air Rods

Thread Size	L mm	L1 mm	Unit Weight kg	Pack Quantity	Part Number
	300		0.53		ATC 112M
	500		0.85		ATC 120M
	600		1.00		ATC 124M
M16	1000	41	1.70	5	ATC 139M
	1500		2.59		ATC 160M
	2000		3.47		ATC 179M
	3000		5.10		ATC 192M
	300		0.80		ATC 212M
	500		1.34		ATC 220M
M20	1000		2.68	5	ATC 239M
MZU	1500	41	4.02	3	ATC 260M
	2000		5.36		ATC 279M
	3000		8.04		ATC 292M

Material: Copper.



BS EN 62561-2

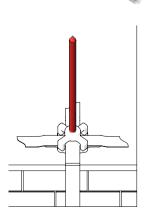
Aluminium Air Rods

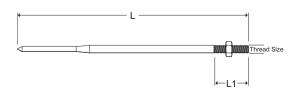
Thread Size	L mm	L1 mm	Unit Weight kg	Pack Quantity	Part Number
	300		0.18		ATA 112M
M16	500	41	0.29	5	ATA 120M
	1000		0.57		ATA 139M
	1500		0.98		ATA 160M
	2000		1.09		ATA 179M

Material: Aluminium.



BS EN 62561-2





Flat Tape System



Multi-Point

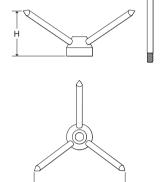
Used in conjunction with the taper pointed copper air rods.

Air Rod Ø mm	H mm	W mm	Unit Weight kg	Pack Quantity	Part Number
16 & 20	156 72 0.32		5	MPC 16	

Material: High Copper Alloy base with Copper Spikes.



BS EN 62561-2





Light Duty Air Rod Saddles

Light duty saddles are used to support air rods on flat roof surfaces.

For use with Copper Air Rods

Thread Size	Conductor Size mm	L mm	H mm	Unit Weight kg	Pack Quantity	Part Number
M16		404		0.22	5	ASGL 16M
M20	25 x 3	101	37	0.43		ASGL 20M

Material: High Copper Alloy.

For use with Aluminium Air Rods

Thread Size	Conductor Size mm	L mm	H mm	Unit Weight kg	Pack Quantity	Part Number
M16	25 x 3	101	37	0.15	5	ASAL 16M

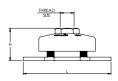
Material: Aluminium.

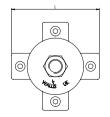


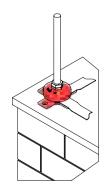
BS EN 62561-1 Class H



Tightening torque 8 Nm









ASGL 16M



Air Rod Ridge Saddles

Ridge saddles are used to support air rods on roof ridges.

For use with Copper Air Rods

Thread Size	L mm	H mm	Unit Weight kg	Pack Quantity	Part Number
M16	137	34	0.70	5	ASGR 16M

Material: High Copper Alloy

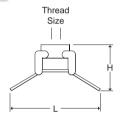
For use with Aluminium Air Rods

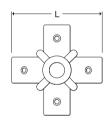
Thread Size	L mm	H mm	Unit Weight kg	Pack Quantity	Part Number
M16	137	34	0.70	5	ASAR 16M

Material: Aluminium



BS EN 62561-1 Class H







Flat Air Rod Saddles

Flat saddles are used to support air rods on flat roof surfaces.

For use with Copper Air Rods

Thread Size	Conductor Size mm	L mm	H mm	Unit Weight kg	Pack Quantity	Part Number
M16	25 x 3	137	40	0.60	- 5	ASGF 16M
M16	31 x 6	120	37			ASGF 316M

Material: High Copper Alloy

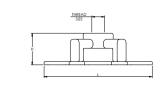
For use with Aluminium Air Rods

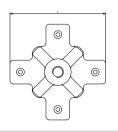
Thread Size	Conductor Size mm	L mm	H mm	Unit Weight kg	Pack Quantity	Part Number
M16	25 x 3	137	40	0.20	5	ASAF 16M

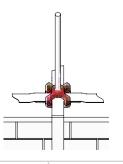
Material: Aluminium



BS EN 62561-1 Class H







Flat Tape System

AMBG 16

Side Mounting Air Rod Brackets

These brackets provide a 75mm projection from the building face and are used where it is not possible to fit a saddle onto the building roof. The brackets are used in conjunction with the rod to tape coupling used to secure the flat tape to the air rod.

The side mounting air rod brackets are purchased as a set.

For use with Copper Air Rods

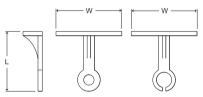
Air Rod Ø mm	L mm	W mm	Unit Weight kg	Pack Quantity	Part Number
16		120 0.75 5	AMBG 16		
20	97		0.43	5	AMBG 20

Material: High Copper Alloy.

For use with Aluminium Air Rods

Air Rod Ø mm	L mm	W mm	Unit Weight kg	Pack Quantity	Part Number
16	97	120	0.12	5	AMBA 16

Material: Aluminium.





AMRA 16

Rod to Tape Couplings

Enables the flat tape to be connected to the air rod. Used in conjunction with the side mounting air rod brackets.

For use with Copper Air Rods

Thread Size	L mm	D mm	Unit Weight kg	Pack Quantity	Part Number
M16		40	0.22	_	AOG 16M
M20	80			5	AOG 20M

Material: High Copper Alloy.

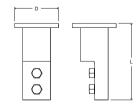
For use with Aluminium Air Rods

Thread Size	L mm	D mm	Unit Weight kg	Pack Quantity	Part Number
M16	80	40	0.10	5	AOA 16M

Material: Aluminium.

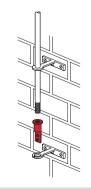


BS EN 62561-1 Class H

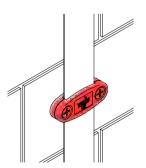


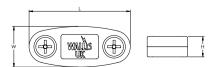


AOA 16M









Metallic DC Clips

Metallic DC clips secure the flat tape conductor to the building surface. Fix using countersunk woodscrews 1 1/2" x No. 10 and No. 10 wall plug.

For use with Bare Copper Tapes

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
20 x 3	50		10	0.06	50	DCG 203
25 x 3	51		10	0.05	50	DCB 253
25 x 4	51		11	0.05	50	DCG 254
25 x 6	51		12	0.05	50	DCG 256
30 x 2	56		9	0.05	25	DCG 302
30 x 5	56		12	0.06	25	DCG 305
31 x 3	60		10	0.07	25	DCG 313
31 x 4	56		11	0.07	25	DCG 314
31.5 x 4	56		11	0.06	25	DCG 3154
31 x 6	56		12	0.06	25	DCG 316
38 x 3	69		10	0.06	25	DCG 383
38 x 5	64	21	12	0.09	25	DCG 385
38 x 6	69		12	0.08	25	DCG 386
40 x 3	70		10	0.07	50	DCG 403
40 x 4	69		11	0.07	25	DCG 404
40 x 5	69		12	0.07	50	DCG 405
40 x 6	69		12	0.08	25	DCG 406
50 x 3	76		10	0.06	25	DCG 503
50 x 4	76		11	0.09	50	DCG 504
50 x 6	76		12	0.06	25	DCB 506
50 x 8	76		14	0.08	25	DCG 508
60 x 5	90		11	0.10	25	DCG 605
63 x 10	102		16	0.13	25	DCG 6310
70 x 5	110		13	0.14	25	DCG 705
75 x 6	110	25	14	0.14	25	DCG 756
80 x 5	110		11	0.14	25	DCG 805
80 x 6	110		14	0.14	25	DCG 806

Material: High Copper Alloy.

For use with PVC Covered Copper Tapes

				-		
Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
25 x 3	56	0.1	12	0.06	50	DGP 253
25 x 6	56	21	15	0.07	25	DGP 256
50 x 6	90	25	16	0.13	25	DGP 506

Material: High Copper Alloy.

For use with Lead Covered Copper Tape

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
31 x 7	60	20	14	0.08	25	DCG 317

Material: High Copper Alloy.



BS EN 62561-4



Tightening torque 6 Nm





Metallic DC Clips (continued)

For use with Bare Aluminium Tapes

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
25 x 3	52		10	0.02	50	DCA 253
25 x 6	50	21	13	0.03	25	DCA 256
50 x 6	76	21	12	0.03		DCA 506
60 x 6	90		17	0.05		DCA 606



Material: Aluminium.

For use with PVC Covered Aluminium Tapes

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
25 x 3	55	00	20	0.03	25	DAP 253
50 x 6	85	20	23	0.04		DAP 506

Material: Aluminium.







Flat Tape System

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NP 253 BL

NP 253 G















This one-piece clip, with integral hinged lid, means no lost or dropped lids. The clips are UV stabilised to prevent degradation from sunlight and are non-brittle to protect against cold weather. Fix using countersunk woodscrew 11/2" x No. 10 and No. 10 wall plug.

For use with Bare Copper or Bare Aluminium Tapes

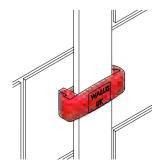
Conductor Size mm	L mm	W mm	H mm	Colour	Unit Weight kg	Pack Quantity	Part Number
20 x 3	55	18	16	Brown	0.01		NM 203 B
20 x 3	50	18	16	Grey	0.01		NM 203 G*
20 x 4	55	28	27	Black	0.01		NM 204 BL*
25 x 3	50	18	16	Brown	0.01		NM 253 B
25 x 3	50	18	16	Grey	0.01		NM 253 G
25 x 3	50	18	16	Stone	0.01		NM 253 S
30 x 2	50	18	16	Brown	0.01		NM 302 B
30 x 2	50	18	16	Grey	0.01		NM 302 G*
30 x 5	74	30	27	Black	0.02		NM 305 BL*
40 x 4	85	31	27	Brown	0.03		NM 404 B*
40 x 4	85	31	27	Black	0.03		NM 404 BL*
40 x 6	85	31	27	Brown	0.02	50	NM 406 B*
40 x 6	85	31	27	Black	0.02		NM 406 BL*
40 x 6	60	18	16	Grey	0.01		NM 406 G*
40 x 6	85	31	27	Green	0.02		NM 406 GR*
50 x 4	85	31	27	Black	0.03		NM 504 BL*
50 x 6	80	25	26	Brown	0.01		NM 506 B*
50 x 6	85	31	27	Black	0.02		NM 506 BL*
50 x 6	85	31	27	Grey	0.02		NM 506 G*
50 x 10	85	31	27	Black	0.03		NM 5010 BL*
50 x 10	85	31	27	Grey	0.03		NM 5010 G*
60 x 6	97	32	31	Black	0.03		NM 606 BL*
80 x 6	116	32	31	Black	0.03		NM 8006 BL*

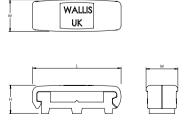
Material: Polypropylene.

For use with PVC Covered Copper & Aluminium Tapes

Conductor Size mm	L mm	W mm	H mm	Colour	Unit Weight kg	Pack Quantity	Part Number
				Brown			NP 253 B
				Black			NP 253 BL
				Grey			NP 253 G
25 x 3	50	50 18 16 Green 0.	0.01	50	NP 253 GR		
			Stone			NP 253 S	
				Terracotta			NP 253 T
				White	1		NP 253 W

Material: Polypropylene.





^{*} Denotes a two-piece clip

Flat Tape System



Standing Seam Roof Fixing

The Wallis standing seam roof fixing is used on multi-profiled seam roofing structures.

The unique design allows for different connection components to be attached to accommodate the flat tape conductor that forms part of the lightning protection system.

These clips are compatible for roofing seams with a thickness of up to 18mm and will not compromise the integrity of the roof. They are manufactured from SS304 Grade Stainless Steel and are black powder coated.

Standing Seam Roof Fixing Clamp

Maximur Seam Roomm		L1 mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
18	44	18	22	50	0.07	50	KZC 001

Material: Stainless Steel to SS304 Grade.

Standing Seam Roof Fixing Clamp with Square Tape Clamp

Conductor	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
Copper	50	50	63	0.21	50	KJG 253

Material: Stainless Steel to SS304 Grade Fixing Clip with a High Copper Alloy Tape Clamp.

Standing Seam Roof Fixing Clamp with Metallic DC Clamp

Conductor	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
Copper	51	22	60	0.12	50	KDCB 253

Material: Stainless Steel to SS304 Grade Clamp with a High Copper Alloy DC Clip.

Standing Seam Roof Fixing Clamp with Non-Metallic DC Clamp

Conductor	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
Copper						KNM 253 B
Copper			66			KNP 253 B
Copper		22				KNP 253 BL
Copper						KNP 253 GR
Copper	50			0.07	50	KNP 253 G
Copper						KNP 253 S
Copper						KNP 253 W
Aluminium						KNM 253 G

Material: Stainless Steel to SS304 Grade Clamp with a Polypropylene Clip.

Standing Seam Roof Fixing with Aluminium DC Clamp

Conductor	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
Aluminium	51	22	64	0.11	50	KDCA 253

Material: Stainless Steel to SS304 Grade Clamp with an Aluminium DC Clip.

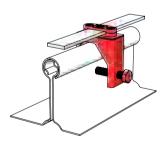
Standing Seam Roof Fixing with Aluminium Square Clamp

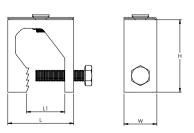
Conductor	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
Aluminium	50	50	63	0.08	50	KJA 253

Material: Stainless Steel to SS304 Grade Clamp with an Aluminium Tape Clamp.













Low Impact Standing Seam Roof Fixings

The Wallis 'Low Impact' standing seam roof fixings are used for fixing lightning conductors onto various standing seam roofing structures.

This unique 'low impact' clamping action is ideal for use on modern day roofing surfaces with thin coatings where damage to the coating must be avoided. The Wallis design utilises a natural clamping action that fits securely around the profile and avoids the use of screws that may damage the roofing coating.

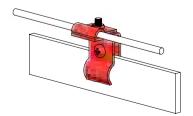
The Wallis Low Impact Standing Seam Roof Fixings are available in Stainless Steel or Aluminium.

L mm	W mm	D mm	Unit Weight kg	Pack Quantity	Part Number
66	50	40	0.86	10	KZA 001

Material: Aluminium.

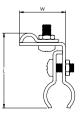
L mm	W mm	D mm	Unit Weight kg	Pack Quantity	Part Number
66	50	40	1.24	10	KZS 001

Material: Stainless Steel.









Flat Tape System



Tape Clips

Wallis tape clips hold the flat tape conductor flush to the building surface.

Fix using countersunk woodscrew 1 $^{1}/_{2}$ " x No. 10 and No. 10 wall plug.

For use with Bare Copper Tapes

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number	
20 x 3	68	20	7	0.03	50	MTB 203	
25 x 3	70		7	0.03		MTB 253	
50 x 6	73		8	0.05		MTB 506	



For use with PVC Covered Copper Tapes

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
25 x 3	70	20	7	0.03	50	MPB 253



For use with Bare Aluminium Tapes

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
20 x 3	68	20	_	0.01	50	MTA 203
25 x 3	70		/			MTA 253
25 x 6	73		8			MTA 256

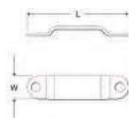
Material: Aluminium.

For use with PVC Covered Aluminium Tapes

	Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
ı	25 x 3	70	20	7	0.01	50	MAP 253

Material: Aluminium.





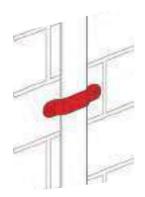
















Flat Tape System



Slate Holdfasts

Wallis slate holdfasts provide a method for fixing the tape above the roof tiles without any drilling.

The aluminium tail slides underneath the tile and is fixed to the wooden beam with a nail, the non-metallic DC clip then protrudes from under the tile and offers a fixing for the tape.

For use with Bare Copper & Aluminium Tapes

Conductor Size mm	L mm	W mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
05.0			4.0	Brown	0.04	50	HSAL 253 BM
25 x 3	300	50	16	Grey	0.04	50	HSAL 253 GM

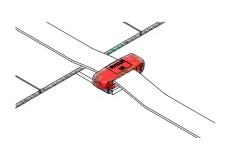
Material: Polypropylene clip with Aluminium tail.

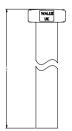
For use with PVC Covered Copper & Aluminium Tapes

Conductor Size mm	L mm	W mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
				Brown			HSAL 253 B
				Black			HSAL 253 BL
25 x 3	300	50	16	Grey	0.04	50	HSAL 253 G
				Stone			HSAL 253 S
				White			HSAL 253 W

Material: Polypropylene clip with Aluminium tail.













Weldable DC Clips

Comprises of a weldable base assembled with a non-metallic DC clip. For use on PVC roofing membranes. See page 89 for details of Universal Welding Solvent.

For use with Bare Tape

Conductor Size mm	D mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
050	00	00	Grey	0.00	50	WDC 080
25 x 3	63	23	Brown	0.03	50	WDC 100

Material: PVC base with Polypropylene clip.

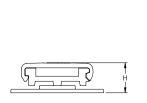
For use with PVC Covered Tapes

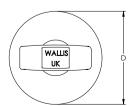
Conductor Size mm	D mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
		Black			WDC 120	
25 x 3	63	23	Grey	0.03	50	WDC 140
			White			WDC 180

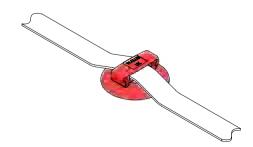
Material: PVC base with Polypropylene clip.











Adhesive DC Clips

Comprises an adhesive base assembled with a non-metallic DC clip. These clips are suitable for use worldwide as they can withstand a wide range of temperatures and humidity's and are ideal for use on impermeable surfaces such as glass, marble, single ply roof, rubber, painted metal and other similar surfaces. It is not recommended for use on porous surfaces such as concrete, wood or brick. See page 89 for details of Surface Primer.

For use with Bare Copper & Aluminium Tapes

Conductor Size mm	D mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
25 x 3	63	23	Brown	0.03	50	ADC 060
25 X 3	03	23	Grey	0.03		ADC 080

Material: Polycarbonate base with Polypropylene clip.

For use with PVC Covered Copper & Aluminium Tapes

Conductor Size mm	D mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
	Brown	Brown			ADC 100	
			Black		ADC 120	
25 x 3	63	23	Grey	0.03	50	ADC 140
			Stone			ADC 160
			White			ADC 180

Material: Polycarbonate base with Polypropylene clip.

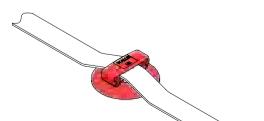


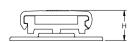


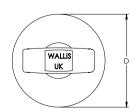
ADC 060



ADC 180







CSA 001

Lightning Protection

Flat Tape System

Universal Welding Solvent, Cleaning Solution & Surface Primer

Туре	Unit Weight kg	Pack Quantity	Part Number
Universal Welding Solvent 500ml spray applicator for use with weldable DC clips Sufficient for application of approx. 200 clips	0.57		UWS 001
Cleaning Solution (Acetone) 500ml spray applicator for cleaning lacquered roofing membranes	0.62	1	CSA 001
Surface Primer 250ml spray applicator for use with adhesive DC clips Sufficient for application of approx. 500 clips	0.24		PRIMER

CoSHH datasheets are available on request



Bitumen Felt DC Clips

For use on bitumen felt roofing only.

For use with Bare Copper & Aluminium Tapes

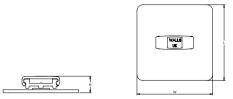
Conductor Size mm	L mm	W mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
05.0	400	400		Brown	0.00	50	BDC 060
25 x 3	100	100	23	Grey	0.06	50	BDC 080

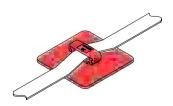
Material: Bitumen Felt base with Polypropylene clip.

For use with PVC Covered Copper & Aluminium Tapes

Conductor Size mm	L mm	W mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
				Brown			BDC 100
			Black			BDC 120	
25 x 3	100	100	23	Grey	0.06	6 50 BD	BDC 140
23 8 3	100	100	23	Stone	0.06	30	BDC 160
				White			BDC 180
				Green			BDC 200

Material: Bitumen Felt base with Polypropylene clip.





BDC 060



HGG 253



Originally designed to be used on glazing units but can be installed wherever conductor has to be fixed onto a narrow flange. The holdfast is assembled with a fixing screw for use with a metallic or non-metallic DC clip.

For use with Copper Tapes

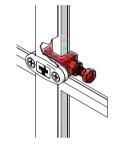
L mm	L1 mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
30	14	22	20	0.12	10	HGG 253

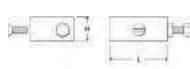
Material: High Copper Alloy.

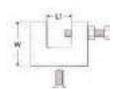
For use with Aluminium Tapes

L mm	L1 mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
30	14	22	20	0.04	10	HGA 253

Material: Aluminium.









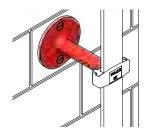
Back Plate Holdfasts

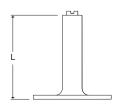
Designed to be used where it is necessary to hold the conductor away from the building surface. The holdfast is assembled with a fixing screw for use with a metallic or non-metallic DC clip.

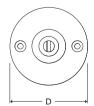
For use with Copper Tapes

L mm	D mm	Unit Weight kg	Pack Quantity	Part Number
74	63	0.33	5	HBP

Material: High Copper Alloy.









Flat Tape System



Square Tape Clamps

These Wallis four-way connectors are suitable for making cross, straight through or tee joints in flat tape. The base has a countersunk hole in the middle for securing the clamp to the building surface and the lid is fixed by means of four screws.

Fix using countersunk woodscrew 1 ½ x No. 10 and No. 10 wall plug.

For use with Bare Copper Tapes

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
25 x 3	50	50	13	0.15	25	JG 253
25 x 4	50	50	15	0.16	25	JG 254
25 x 6	50	50	20	0.25	25	JG 256
30 x 2	56	56	12	0.18	25	JG 302
30 x 5	56	56	17	0.20	25	JG 305
31 x 3	60	60	14	0.22	25	JG 313
31 x 6	56	56	19			JG 316
38 x 3						JG 383
38 x 6	71	71	22	0.59	25	JG 386
40 x 3	66	66	13	0.26		JG 403
40 x 4	66	66	15	0.25	20	JG 404
40 x 5	66	66	18	0.28	20	JG 405
50 x 3	80	80	16	0.50	10	JG 503
50 x 4						JG 504
50 x 6	80	80	22	0.52	10	JG 506
50 x 8	80	80	27	0.68		JG 508

Material: High Copper Alloy.

For use with Lead Covered Copper Tape

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
25 x 3	70	70	25	0.86	25	JPB 253 L

Material: Phosphor Bronze.

For use with Bare Aluminium Tape

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
25 x 3	50	50	13	0.07	25	JA 253
40 x 6	67	67	18	0.10	10	JA 406
50 x 6	77	77	20	0.15	10	JA 506

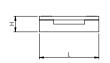
Material: Aluminium.

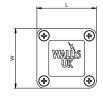


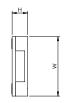
BS EN 62561-1 Class H



Tightening torque 6 Nm



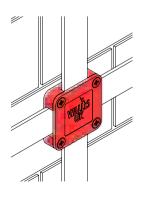
















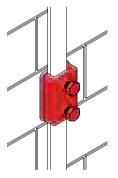
JGO 253 W



JGO 506







Oblong Junction Clamps

Designed to join a range of tape sizes in a straight through position. In many applications the clamp enables tapes to be overlapped and secured by the two set screws.

For use with Bare Copper Tapes

Maximum Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
26 x 8	60	51	24	0.27	10	JGO 253 W
						JGO 256 W
33 x 11	70	45	30	0.39	5	JGO 316
51 x 10	90	63	26	0.58	10	JGO 506

Material: High Copper Alloy.

For use with Lead Covered Copper Tape

Maximum Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
26 x 8	90	45	24	0.34	10	JPBO 253 L

Material: Phosphor Bronze.

For use with Bare Aluminium Tape

Maximum Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
26 x 8	68	40	23	0.11	10	JAO 253

Material: Aluminium.





Tightening torque 12 Nm







Flat Tape System



JPA 253

JPG 253

Plate Type Test Clamps

This Wallis clamp is used to form a disconnecting joint between the down conductor and earthing system.

There are two wall fixing holes on the bottom plate. Fix using countersunk woodscrews $1^{1/2}$ " x No. 10 and No. 10 wall plugs.

For use with Copper Tapes

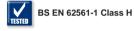
Maximum Conductor Size mm	D mm	H mm	Unit Weight kg	Pack Quantity	Part Number
26 x 15	70	38	0.40	5	JPG 253

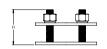
Material: High Copper Alloy.

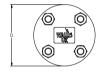
For use with Aluminium Tapes

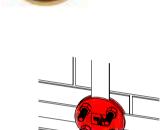
Maximum Conductor Size mm	D mm	H mm	Unit Weight kg	Pack Quantity	Part Number
26 x 15	70	38	0.10	5	JPA 253

Material: Aluminium.









Screw Down Test Clamp

The screw down test clamp allows easy access to copper conductors where frequent inspection and testing may be necessary.

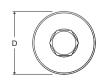
For use with Copper Tapes

Maximum Conductor Size mm	D mm	Unit Weight kg	Pack Quantity	Part Number
26 x 8	61	0.72	5	JSG 253

Material: High Copper Alloy.















Bimetallic Connectors

These connectors are used to join aluminium and copper tapes together. They are a neat and practical jointing method without the need for tinning, riveting or wrapping the joint.

Fix using countersunk woodscrew 1 1/2" x No. 10 wall plug.

Conductor Size mm	Material Type	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
	Aluminium & Copper	85	28	27	0.20		BIM 253
25 x 3	Aluminium & Copper	80	37	17	0.20	10	BIM 253 FB
	Stainless Steel	75	32	11	0.16		BSS 253
50 x 6	Aluminium & Copper	143	50	20	0.63		BIM 506



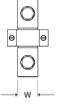
BS EN 62561-1 Class H



Tightening torque 20 Nm













'B' Bonds

These Wallis 'B' bonds are used for bonding aluminium and copper tapes to flat metal surfaces.

For use with Copper Tapes

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
25 x 3	35	35	10	0.03	10	BBG 253 SS

Material: High Copper Alloy with M10 x 35mm Stainless Steel Set Screw.

For use with Aluminium Tapes

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
25 x 3	35	35	10	0.01	10	BBA 253

Material: Aluminium with M10 x 35mm Stainless Steel Set Screw.

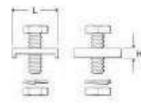


BS EN 62561-1 Class H



Tightening torque 20 Nm







Flat Tape System



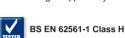
Watermain Pipe Bond

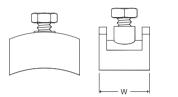
Designed to bond large diameter metallic pipes into the earthing and lightning protection systems.

For use with Bare Copper Tapes

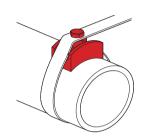
Maximum Conductor Width mm	L mm	W mm	Unit Weight kg	Pack Quantity	Part Number
26	45	36	0.21	10	BWG 253

Material: High Copper Alloy with M10 x 35mm Phosphor Bronze Set Screw.









Rainwater Pipe Bond

This pipe bond can be used on any application where tape can be wrapped around circular objects such as pipes or rails.

For use with Bare Copper Tapes

Maximum Conductor Width mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
26	32	32	16	0.20	10	BRG 253

Material: High Copper Alloy with M10 x 40mm Stainless Steel Set Screw.

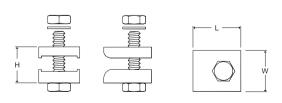
For use with Bare Aluminium Tapes

Maximum Conductor Width mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
26	32	32	16	0.10	10	BRA 253

Material: Aluminium with M10 x 40mm Stainless Steel Set Screw

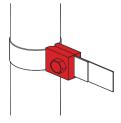


BS EN 62561-1 Class H

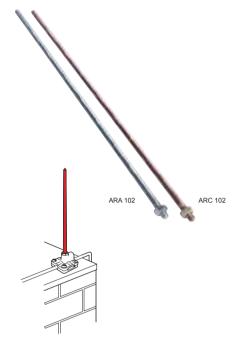












Air Rods

These air rods are used as part of the lightning protection system. They are manufactured from 10mm diameter rod and are supplied with a locknut.

Copper Air Rods

Thread Size	L mm	Unit Weight kg	Pack Quantity	Part Number
1440	500	0.35	_	ARC 102
M10	1000	0.70	5	ARC 105

Material: Copper.

Aluminium Air Rods

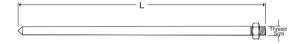
Thread Size	L mm	Unit Weight kg	Pack Quantity	Part Number
1440	500	0.11	-	ARA 102
M10	1000	0.22	5	ARA 105

Material: Aluminium.



LIAA 253

BS EN 62561-2





Multi-Purpose Air Rod Saddles

These saddles can be installed horizontally on roofs or vertically on walls or parapets and are used in conjunction with the air rods shown above. The saddles are suitable for use with 8mm diameter solid circular conductor as well as 25 x 3mm flat tape.

For use with Copper Air Rods

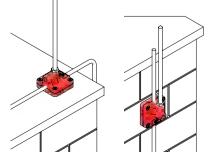
Thread Size	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
M10	54	54	38	0.30	5	UAG 253

Material: High Copper Alloy.

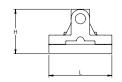
For use with Aluminium Air Rods

Thread Size	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
M10	54	54	38	0.10	5	UAA 253

Material: Aluminium.













Slate Holdfasts

Wallis slate holdfasts provide a method of fixing solid circular conductor above roof tiles without any drilling.

The aluminium tail slides underneath the tile and is fixed to the wooden beam with a nail, the push-in roof clip then protrudes from under the tile and offers a fixing for the conductor.

For use with Bare Solid Circular Conductors

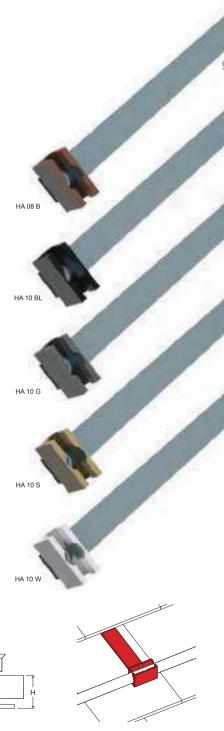
	Conductor Size mm	L mm	W mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
1		000	40	44	Brown	0.04	50	HA 08 B
ı	8	320	18	14	Grey	0.04	50	HA 08 G

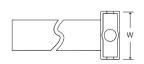
Material: Polypropylene clip with Aluminium tail.

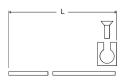
For use with PVC Covered Solid Circular Conductors

Conductor Size mm	L mm	W mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
				Brown			HA 10 B
		18	14	Black	0.04	50	HA 10 BL
8	320			Grey			HA 10 G
				Stone			HA 10 S
				White			HA 10 W

Material: Polypropylene clip with Aluminium tail.













One Hole Conductor Clips

One hole conductor clips provide an easy method of fixing copper and aluminium conductors to surfaces.

Fix using round head woodscrew 1 $^{1}\slash{\rm 2}"$ x No. 10 and No. 10 wall plug.

For use with Solid Circular Copper Conductors

Conductor Size & Type	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8mm Bare	31	12	12	0.04	F0.	PCC 001
8mm PVC	41	20	15	0.01	50	PCC 002

Material: Copper.

For use with Solid Circular Aluminium Conductors

Conductor Size & Type	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8mm Bare	31	12	12	0.04		PCA 001
8mm PVC	41	20	15	0.01	50	PCA 002

Material: Aluminium.



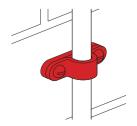








DCA 810



Metallic Conductor Clips

Metallic conductor clips secure the solid circular conductor to the building surface. The larger sizes can also be used to support the 10mm air rods shown on page 96.

Fix using countersunk woodscrew 1 $^{1}/_{2}$ " x No. 10 and No. 10 wall plug.

For use with Solid Circular Copper Conductors

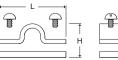
Conductor Size & Type	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8mm Bare	40	48 17 20	20	0.00	25	DCG 810
8mm PVC	40		0.06	25	DCG 815	

Material: High Copper Alloy.

For use with Solid Circular Aluminium Conductors

Conductor Size & Type	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8mm Bare	40	47	00	0.00	05	DCA 810
8mm PVC	48	17	20	0.03	25	DCA 815

Material: Aluminium.





Lightning Protection Solid Circular System



Adhesive 8mm Circular Conductor Clips

Comprises of an adhesive base assembled with a push-in roof clip. For use on surfaces other than PVC roofing. See page 89 for details of Surface Primer.

For use with Bare Solid Circular Conductors

Conductor Size mm	D H mm		Colour Clip	Unit Weight kg	Pack Quantity	Part Number
8	63	26	Grey	0.01	50	ADC 280

Material: Polycarbonate base with Polypropylene clip.

For use with PVC Covered Solid Circular Conductors

Conductor Size mm	D mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
			Brown			ADC 260
			Black	0.01	50	ADC 200
8	63	26	Grey			ADC 240
			Stone			ADC 220
			White			ADC 250

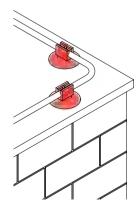
Material: Polycarbonate base with Polypropylene clip.





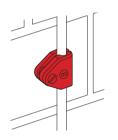












Non-Metallic Down Conductor Clips

A one-piece fold over clip designed for easy installation of solid circular conductor. The clips are UV stabilised to prevent degradation from sunlight and are non-brittle to protect against cold weather.

For use with Bare Solid Circular Conductors

Conductor Size mm	L mm	W mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
8	24	22	22	Brown	0.04	100	CM 08 B
0	34	23	33	Grey	0.01	100	CM 08 G

Material: Polypropylene.

For use with PVC Covered Solid Circular Conductors

Conductor Size mm	L mm	W mm	H mm	Colour	Unit Weight kg	Pack Quantity	Part Number
	34		33	Brown			CP 08 B
		23		Black	0.01	100	CP 08 BL
8				Grey			CP 08 G
				Stone			CP 08 S
				White			CP 08 W

Material: Polypropylene.









Push-in Roof Conductor Clips

A one-piece single screw fixing clip designed for easy installation of solid circular conductors. The clips are UV stabilised to prevent degradation from sunlight and are non-brittle to protect against cold weather.

For use with Bare Solid Circular Conductors

Conductor Size mm	L mm	W mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
8	20	4.0	14	Brown	0.04 10	100	RM 08 B
0	29	18	14	Grey	0.01	100	RM 08 G

Material: Polypropylene.

For use with PVC Covered Solid Circular Conductors

Conductor Size mm	L mm	W mm	H mm	Clip Colour	Unit Weight kg	Pack Quantity	Part Number
				Brown		RP 08 B	
				Black	1		RP 08 BL
8	29	18	14	Grey	0.01	100	RP 08 G
				Stone	1		RP 08 S
				White			RP 08 W









Lightning Protection Solid Circular System



'MV' Clamps

These Wallis four-way connectors are suitable for crossing over, making straight joints and tee connections with solid circular conductor.

For use with Bare Solid Circular Copper Conductor

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8	40	40	18	0.05	10	MVG 08



For use with Bare Solid Circular Aluminium Conductor

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8	40	40	18	0.01	10	MVA 08

Material: Aluminium.

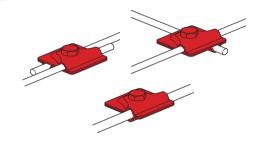


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MVG 08

MVA 08

'T' Connector Clamps

This purpose-designed 'T' connector clamp is ideal for connecting the roof network to the down conductors of an 8mm solid circular lightning protection system.

For use with Bare Solid Circular Copper Conductor

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8	45	45	19	0.26	10	TCG 08

Material: High Copper Alloy.

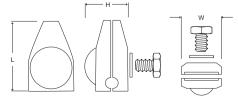
For use with Bare Solid Circular Aluminium Conductor

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8	44	25	20	0.06	10	TCA 08

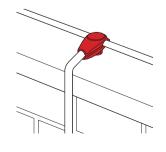
Material: Stainless Steel



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Interface Test Clamps

The Wallis interface clamp, sometimes referred to as the 'coffin clamp', is very adaptable and can be utilised to connect conductors in a variety of different sizes and in a variety of configurations. It can be used for connecting flat tape to 8mm or 10mm solid circular conductor, or flat tape to 50mm² and 70mm² cable. This is ideal where the lightning protection system has been designed in 8mm copper conductor but the connection to the earth rod is made using 25 x 3mm copper tape. These interface test clamps will also serve for making through joints and tee connections in 8mm solid circular conductor, flat tape or cable.

For use with Bare Copper Conductors

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8 & 25 x 3	70	34	15	0.25	25	JYG 08
10 & 25 x 3	70	36	18	0.25	25	JYG 10

Material: High Copper Alloy.

For use with Bare Aluminium Conductors

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8 & 25 x 3	70	34	15	0.09	25	JYA 08
10 & 25 x 3	70	36	18	0.09	25	JYA 10

Material: Aluminium



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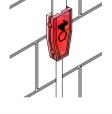


Tightening torque 13 Nm









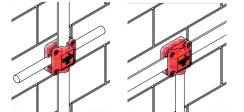
Solid Circular to Tape Connectors

This Wallis four-way connector is suitable for crossing over flat tape and solid circular conductor. It will also serve for making straight through joints and tee connections.

For use with Bare Copper Conductors

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
	51	51	25	0.27		JOM 050
	51	51	31	0.30		JOM 070
	51	51	34	0.31	25	JOM 095
50, 8 & 25 x 3	51	51	37	0.32	25	JOM 120
						JOM 240
						JOM 300

Material: High Copper Alloy.











JOM 050

Solid Circular System



These clamps are designed for bonding 8mm solid circular conductors onto metal surfaces.

For use with Bare Solid Circular Copper Conductor

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8	82	40	25	0.14	10	MBG 08

Material: Copper.

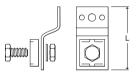
For use with Bare Solid Circular Aluminium Conductor

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8	82	40	25	0.09	10	MBA 08

Material: Aluminium.



BS EN 62561-1 Class H









Bimetallic Connectors

These connectors are used to join 8mm aluminium and copper solid circular conductors together. They are a neat and practical jointing method without the need for tinning, riveting or wrapping the joint.

Conductor Size mm	Material Type	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
	Aluminium & Copper	78	28	28	0.25	10	BIM 08
8	Stainless Steel	71	22	19	0.09	10	BSS 08

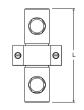
We also offer connectors suitable for joining 8mm aluminium solid circular conductor to 25 x 3mm copper tape.

Conductor Size mm	Material Type	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8 to 25 x 3	Aluminium & Copper	78	28	29	0.20	10	BIM 25308
8 t0 25 x 3	Stainless Steel	73	32	15	0.13	50	BSS 25308



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Solid Circular System



Rainwater Pipe Bonds

This pipe bond can be used on any application where the perforated tape can be wrapped around circular objects such as pipes or rails etc.

For use with Bare Solid Circular Copper Conductor

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8	55	32	17	0.37	5	BRG 08

Material: High Copper Alloy with Perforated Copper Tail.

For use with Bare Solid Circular Aluminium Conductor

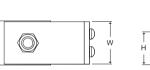
Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8	51	31	16	0.09	5	BRA 08

Material: Aluminium with Perforated Steel Tail.

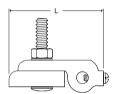




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Circular 'B' Bonds

This Wallis bond is used for bonding 8mm solid circular conductors to flat metal surfaces.

For use with Bare Solid Circular Copper Conductor

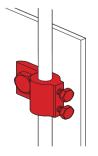
Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8	52	33	18	0.14	10	BBG 08

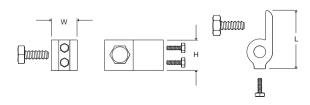
Material: High Copper Alloy.

For use with Bare Solid Circular Aluminium Conductor

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8	52	33	18	0.09	10	BBA 08

Material: Aluminium.







Solid Circular System

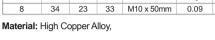


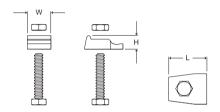
These single-plate tower earth clamps are used for bonding copper and aluminium conductors onto steel surfaces. The clamp is fixed by drilling a hole in the steelwork and securing with the set screw provided.

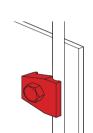
For use with Bare Solid Circular Copper Conductor

Conductor Size mm	L mm	W mm	H mm	Set Screw	Unit Weight kg	Pack Quantity	Part Number
8	34	23	33	M10 x 50mm	0.09	10	BTC 008

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BTC 008

Multi-Purpose 'B' Bonds

These Wallis Multi-Purpose 'B' Bonds can be used for bonding both $25\ x$ 3mm flat tape and 8mm diameter solid circular conductor to flat metal surfaces.

For use with Bare Copper Conductors

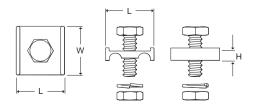
Conductor Size mm	L mm	W mm	H mm	Set Screw	Unit Weight kg	Pack Quantity	Part Number
8&25x3	34	34	13	M8 x 25mm	0.09	25	BBG 25308

Material: High Copper Alloy.

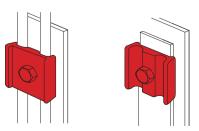
For use with Bare Aluminium Conductors

Conductor Size mm	L mm	W mm	H mm	Set Screw	Unit Weight kg	Pack Quantity	Part Number
8&25x3	34	34	13	M8 x 25mm	0.04	25	BBA 25308

Material: Aluminium









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Lightning Protection

Solid Circular System



Pyramid Holdfast

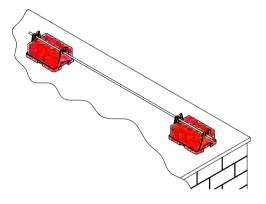
The Pyramid Holdfast is designed to support 8mm diameter bare solid circular conductors on flat roofs.

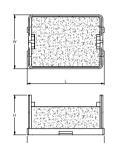
Manufactured from black weather-resistant plastic with a frost proof concrete insert. The lip around the base enables the holdfast to be installed onto bitumen type roofs.

For use with Bare Solid Circular Conductors

Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
8	120	95	72	0.98	10	HPY 008

Material: Plastic base with a Concrete Insert.









Circular Conductor Shoes

Used to bond 8mm bare solid circular conductors to metal surfaces.

For use with Bare Solid Circular Copper Conductor

Conductor Size mm	Palm Hole Ø mm	L mm	W	H mm	Set Screw	Unit Weight kg	Pack Quantity	Part Number
8	12	61	23	25	M6 x 12mm	0.10	25	GCS 050

Material: High Copper Alloy.

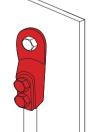
For use with Bare Solid Circular Aluminium Conductor

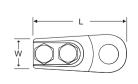
Conductor Size mm	Palm Hole Ø mm	L mm	W	H mm	Set Screw	Unit Weight kg	Pack Quantity	Part Number
8	12	61	23	25	M6 x 12mm	0.04	25	ACS 050

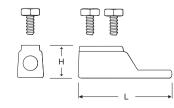
Material: Aluminium.



BS EN 62561-1 Class H









Taper Pointed Air Rods

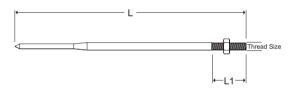
Air rods form an important part of the air termination network of a lightning protection system. All of our copper air rods are supplied with a brass locknut enabling the rod to be locked tight against the conductor. Please see pages 79 - 81 for further information on our range of saddles, brackets and couplings.

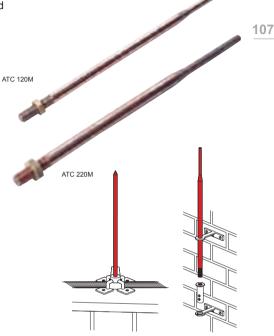
Thread Size	L mm	L1 mm	Unit Weight kg	Pack Quantity	Part Number
	300		0.53		ATC 112M
	500	41	0.85		ATC 120M
	600		1.00		ATC 124M
M16	1000		1.70	5	ATC 139M
	1500		2.59		ATC 160M
	2000		3.47		ATC 179M
	3000		5.10		ATC 192M

Material: Copper.



BS EN 62561-2





Multi-Point

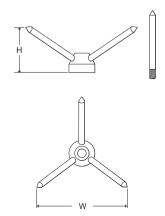
Used in conjunction with the taper pointed copper air rods.

Air Rod Ø mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
16	156	72	0.32	5	MPC 16

Material: High Copper Alloy Base with Copper Spikes.



BS EN 62561-2





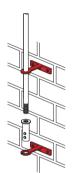


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Lightning Protection

Cable & Wire System





Side Mounting Air Rod Brackets

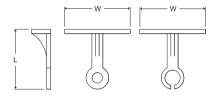
These brackets provide a 75mm projection from the building face and are used where it is not possible to fit a saddle onto the building roof. The brackets are used in conjunction with the rod to cable coupling which is used to secure the cable to the air rod.

The side mounting air rod brackets are purchased as a set.

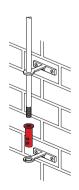
For use with Copper Air Rods

Rod Ø mm	L mm	W mm	Unit Weight kg	Pack Quantity	Part Number
16	97	120	0.75	5	AMBG 16

Material: High Copper Alloy.







Rod to Cable Couplings

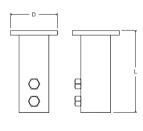
Enables the stranded cable to be connected to the air rod. Used in conjunction with the side mounting air rod brackets.

Conductor Size mm²	Thread Size	L mm	D mm	Unit Weight kg	Pack Quantity	Part Number
50	1440	00	40	0.05	_	AOG 050
70	M16	80	40	0.25	5	AOG 070

Material: High Copper Alloy.



BS EN 62561-1 Class H





Cable & Wire System

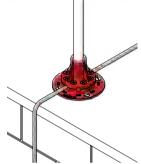
Air Rod Cable Saddles

These saddles are used to support the copper taper pointed air rods on flat roof surfaces.

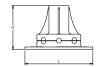
Conductor Size mm ²	Thread Size	L mm	H mm	Unit Weight kg	Pack Quantity	Part Number
50 - 70	M16	70	65	0.90	5	ASGF 5070
95 - 120	M20	125	-	0.90		ASGF 5070/20

Material: High Copper Alloy.









Rainwater Pipe Bonds

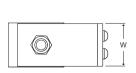
This pipe bond can be used on any application where the perforated tape can be wrapped around circular objects such as pipes or rails etc.

For use with Bare Stranded Conductor

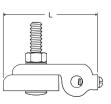
Conductor Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
70	56	31	18	0.33	5	BRG 070

Material: High Copper Alloy with Perforated Copper Tail













Cable & Wire System

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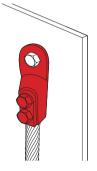
Used to bond stranded copper conductors to metal surfaces.

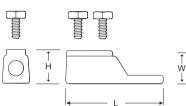
Conductor Size mm²	Palm Hole Ø mm	L mm	W mm	H mm	Set Screws	Unit Weight kg	Pack Quantity	Part Number
50			23	25		0.10		GCS 050
70	12	61	25	27	M6 x 12mm	0.12	25	GCS 070
95			27	29		0.14		GCS 095

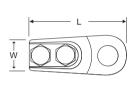
Material: High Copper Alloy.



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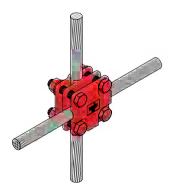


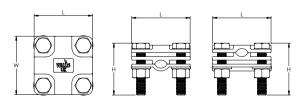
Cable to Cable Junction Clamp

These Wallis four-way connectors are suitable for making cross, straight through or tee joints for stranded copper.

Conductor Size mm ²	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
35 - 120	55	55	50	0.51	- 5	JGX 120
35 - 240	65	65	55	0.68		JGX 240

Material: High Copper Alloy with Stainless Steel Fittings.







One Hole Cable Clips

Wallis one hole cable clips provide an easy method of fixing stranded copper conductors to surfaces.

For use with Bare Stranded Copper Conductors

Conductor Size mm²	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
6	10	10	5	0.01		PCC 006
10	10	10	5	0.01		PCC 010
16	15	10	5	0.01		PCC 016
25	15	10	8	0.01		PCC 025
35	18	10	8	0.01		PCC 035
50	18	10	10	0.01		PCC 050
70	22	10	10	0.01	50	PCC 070
95	22	10	13	0.01		PCC 095
120	25	15	15	0.01		PCC 120
150	25	15	15	0.02		PCC 150
185	30	15	20	0.02		PCC 185
240	30	20	20	0.02		PCC 240
300	35	20	25	0.02		PCC 300

Material: Copper.

For use with PVC Insulated Stranded Copper Conductors

Conductor Size mm ²	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
6	10	10	5	0.01		PCP 006
10	10	10	7	0.01		PCP 010
16	15	10	7	0.01		PCP 016
25	15	10	10	0.01		PCP 025
35	18	10	10	0.01		PCP 035
50	18	10	15	0.01		PCP 050
70	22	10	15	0.01	50	PCP 070
95	22	10	15	0.01		PCP 095
120	25	15	20	0.01		PCP 120
150	25	15	20	0.02		PCP 150
185	30	15	25	0.02		PCP 185
240	30	20	25	0.02		PCP 240
300	35	20	30	0.02		PCP 300

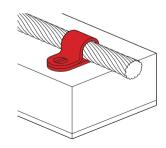
Material: Copper.











Cable & Wire System

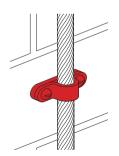


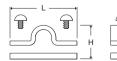
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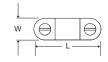


DCG 025









Metallic Cable Clips

Metallic cable clips secure the stranded copper conductor to the building surface.

Fix using countersunk woodscrew 1 $^{1}\!/_{\!2}"$ x No. 10 and No. 10 wall plug.

For use with Bare Stranded Copper Conductors

Conductor Size mm ²	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
6	46	17	12	0.04	50	DCG 006
10	46	17	12	0.04	50	DCG 010
16	46	17	17	0.05	50	DCG 016
25	46	17	17	0.06	50	DCG 025
35	60	20	22	0.07	50	DCG 035
50	60	20	22	0.07	50	DCG 050
70	60	20	22	0.08	25	DCG 070
95	60	20	22	0.08	25	DCG 095
120	60	20	23	0.09	25	DCG 120
150	60	20	28	0.09	25	DCG 150
185	60	20	26	0.09	25	DCG 185
240	60	20	29	0.10	25	DCG 240
300	60	20	31	0.10	25	DCG 300
400						DCG 400

Material: High Copper Alloy.

For use with PVC Insulated Stranded Copper Conductors

Conductor Size mm ²	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
6	46	17	14	0.04	50	DGP 006
10	46	17	14	0.04	50	DGP 010
16	46	17	19	0.05	50	DGP 016
25	46	17	19	0.06	50	DGP 025
35	60	20	24	0.07	50	DGP 035
50	60	20	24	0.07	50	DGP 050
70	60	20	24	0.08	25	DGP 070
95	60	20	24	0.08	25	DGP 095
120	60	20	25	0.09	25	DGP 120
150	60	20	30	0.09	25	DGP 150
185	60	20	28	0.09	25	DGP 185
240	60	20	31	0.10	25	DGP 240
300	60	20	33	0.10	25	DGP 300

Material: High Copper Alloy.

For use with Lead Sheathed Copper Conductors

Conductor Size mm²	L mm	W	H mm	Unit Weight kg	Pack Quantity	Part Number
240						DCL 240
400						DCL 400

Material: High Copper Alloy.

Lightning Protection Cable & Wire System



Square Cable Clamps

These Wallis four-way connectors are suitable for making cross, straight through or tee joints in stranded copper conductor.

Cable Size mm²	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
50	51	51	25	0.27		JOM 050
70	51	51	31	0.30	25	JOM 070
95	51	51	34	0.31		JOM 095
120	51	51	38	0.32		JOM 120
240						JOM 240
300						JOM 300



Material: High Copper Alloy.

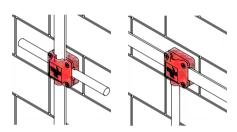


BS EN 62561-1 Class H









Universal Cable Connectors

This connector is suitable for joining cables in a test point as part of the lightning protection system.

The base has a countersunk hole in the middle for securing the connector to the building surface. Fix using countersunk woodscrew 1 $^{1}\!/_{\!2}$ " x No. 10 and No. 10 wall plug.

Conductor Size mm ²	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
50				0.19		UC 050
70	71	21	19	0.17	25	UC 070
95				0.15		UC 095

Material: Naval Brass.

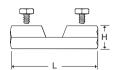


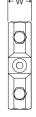
BS EN 62561-1 Class H



Tightening torque 13 Nm

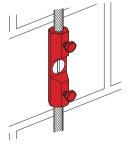








UC 070





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Lightning Protection

Cable & Wire System

BTC 070





Tower Earth Clamps

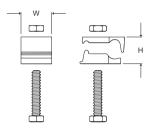
These double-plate tower earth clamps are used for bonding stranded copper conductors onto steel surfaces. The clamp is fixed by drilling a hole in the steelwork and securing with the set screw provided.

Conductor Range mm²	L mm	W mm	H mm	Set Screw	Unit Weight kg	Pack Quantity	Part Number
16 - 70	45	30	17	M10 x 50mm	0.12		BTC 070
70 - 120	48	35	22	M12 x 60mm	0.23		BTC 120
120 - 185	55	40	28	M12 x 75mm	0.30	10	BTC 185
185 - 240	63	45	35	M12 x 80mm	0.40		BTC 240
240 - 300	70	53	42	M12 x 90mm	0.60		BTC 300

Material: High Copper Alloy.



BS EN 62561-1 Class H





Cable to Tape Connectors

This Wallis four-way connector is suitable for crossing over flat copper tape and bare stranded copper cable. It will also serve for making straight through joints and tee connections.

Cable Size mm²	Tape Size mm	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
50		51	51	25	0.27		JOM 050
70		51	51	31	0.30		JOM 070
95	25 x 3	51	51	34	0.31	25	JOM 095
120		51	51	37	0.34	23	JOM 120
240							JOM 240
300	50 x 6						JOM 300

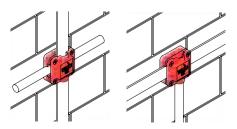
Material: High Copper Alloy.



BS EN 62561-1 Class H



Tightening torque 6 Nm











Miscellaneous Products



The Wallis strike pads are used where it is not possible to install a conductor on the roof or side of a building. A typical application would be on the roof of a car park where the conductor is laid underneath the tarmac and the strike pads fitted on top. These strike pads are supplied with a 40mm dowel and nut.



For use with Copper Conductor

D mm	H mm	Unit Weight kg	Pack Quantity	Part Number
122	40	0.60	5	SC 01



Material: High Copper Alloy.

For use with Aluminium Conductor

D mm	H mm	Unit Weight kg	Pack Quantity	Part Number
122	40	0.20	5	SA 01

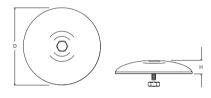
Material: Aluminium.

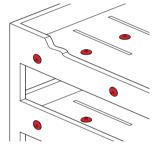


BS EN 62561-1 Class H



Tightening torque 20 Nm





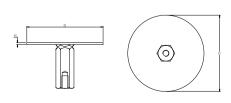
Stainless Steel Strike Pads

These Wallis stainless steel strike pads are commonly used in areas where a better aesthetical finish is preferred. The stainless steel strike pads offer a brushed look and with a flat head these can be used on exposed balconies, public access areas and complex roof façades.

For use with Copper/Aluminium Conductors

D mm	H mm	Unit Weight kg	Pack Quantity	Part Number
122	3	0.30	5	SPS 001

Material: SS316 Stainless Steel.







Miscellaneous Products



Stainless Steel Strike Pad Set

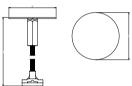
This Wallis stainless steel strike pad is a pre-assembled set of a stainless steel strike pad (SPS001), multi-purpose base (UAG253), extended dowel, for deep finish areas (ERD300), and lock nuts. The stainless steel strike pad is used in areas where the air termination network is installed within the makeup level with varying depths of finish areas. The stainless steel strike pads offer a brushed look and with a flat head they can be used on exposed balconies, public access areas and complex roof façades.

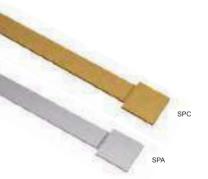
The Strike Pad can be manufactured to any desired colour so long as the correct RAL number is supplied to us.

For use with Copper & Aluminium conductors

D mm	H mm	Unit Weight kg	Pack Quantity	Part Number
122	310	0.80	1	SPS001 SET

Material: Stainless Steel.





Interceptor Plates

These Wallis interceptor plates fit under the roof tile and are connected into the lightning protection system. The square plate protrudes from the tile and provides the interception point.

For use with Copper Conductor

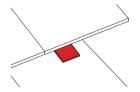
L mm	L1 mm	W mm	Unit Weight kg	Pack Quantity	Part Number
500	50	50	0.40	5	SPC

Material: High Copper Alloy.

For use with Aluminium Conductor

L mm	L1 mm	W mm	Unit Weight kg	Pack Quantity	Part Number
500	50	50	0.11	5	SPA

Material: Aluminium.







Oxide Inhibiting Compound

We recommend the use of an oxide inhibitor whenever aluminium fittings are installed on a lightning protection system.

Penetrox electrical joint compound is a natural-petroleum based grease that seals out oxygen and moisture on aluminium to aluminium and aluminium to copper connections. It is not recommended for use with rubber or polyethylene materials

Description	Unit Weight kg	Pack Quantity	Part Number
8oz plastic squeeze bottle	0.26	1	IC 08

CoSHH datasheet available on request.



Puddle Flanges

The puddle flange is used where the down conductor must pass through a roof or waterproof membrane. The flats of the flange are made waterproof by fixing with glue, concrete or specialist roofing materials. See page 34 for our range of clamps suitable for use with puddle flanges.

For use with Copper Conductor

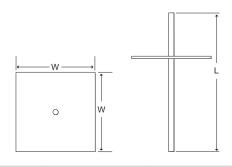
L mm	W mm	Unit Weight kg	Pack Quantity	Part Number
600	150 x 150	1.68	1	PFC 01

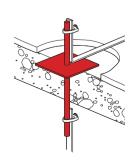
Material: Copper.

For use with Aluminium Conductor

L mm	W mm	Unit Weight kg	Pack Quantity	Part Number
600	150 x 150	0.54	1	PFA 01

Material: Aluminium.





PFC 01





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Lightning Protection Miscellaneous Products

Wallis Sealing Tape

A waterproof tape for wrapping joints to provide protection against corrosion.

	Description	Unit Weight kg	Pack Quantity	Part Number
50	mm wide x 10m length roll	0.70	1	DT 510



Silfos

Silfos is an alloy of silver, phosphorous and copper. It is used to braze copper to copper in air without the use of flux.

Description	Unit Weight kg	Pack Quantity	Part Number
50mm x 0.12 x 8m length roll	0.50	1	SILFOS

CoSHH datasheet available on request.



Lightning Protection Miscellaneous Products



Bitumen Felt Roll

Supplied in rolls for use on asphalt roofs.

Description	Unit Weight kg	Pack Quantity	Part Number
100mm wide x 10m length roll	2.64	1	BFR 01



Green & Yellow PVC Insulating Tape

General-purpose insulating tape for electrical applications.

Description	Unit Weight kg	Pack Quantity	Part Number
25mm wide x 33m length roll	0.14	1	GYT 2533





Miscellaneous Products

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Tinmans Solder

Tinmans commercial grade solder supplied by the kilogram (4 sticks).

Description	Unit Weight kg	Pack Quantity	Part Number
Tinmans Solder (4 sticks)	1.00	1	FX 10

Material: 60% Tin, 40% Lead.



Flux

A well-established and reliable multi-purpose flux paste. It is designed for engineering and sheet metal work, and is equally as effective for soldering of copper products. Use with Tinmans Solder.

Description	Unit Weight kg	Pack Quantity	Part Number
Fluxite soldering paste 100g tin	0.10	1	FX 02



Plain Channel

These channels offer total flexibility in design and construction of assemblies for framing applications.

Unslotted Channel

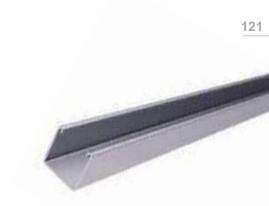
	L mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
Г	3000	41	41	8.70	1	UNISTRUT/US

Material: Galvanised Steel.

Slotted Channel

L mm	L1 mm	W mm	H mm	Unit Weight kg	Pack Quantity	Part Number
3000	50	41	41	8.20	1	UNISTRUT

Material: Galvanised Steel.



Wallis G-Beam Clamp

This product is used to provide a solid fixing to steel constructions without the need for welding or drilling.

L mm	H mm	Unit Weight kg	Pack Quantity	Part Number
44	52	0.14	50	GEE 003

Material: Iron Body with Steel Fittings.





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Lightning Protection

Miscellaneous Products



Heavy Duty Earthing Clamp with 5 Metre Cable

This heavy duty stainless steel earthing clamp is primarily used for earthing 205 litre drums, IBC's, production vessels and road tankers etc. The clamp consists of twin tungsten carbide teeth, which allows for effective penetration of paint and contamination.

This product is supplied complete with chemically resistant Cen-Stat 5m spiral Cable and 10mm ring terminal.

Jaw Opening mm	Cable Length M (max.)	Unit Weight kg	Pack Quantity	Part Number
35	5.0	1.09	1	VESX 10

Material: Stainless Steel.



Static Discharge Reel with Heavy Duty Earthing Clamp

This heavy duty stainless steel earthing clamp is primarily used for earthing 205 litre drums, IBC's, production vessels and road tankers. The clamp consists of twin tungsten carbide teeth, which allows for effective penetration of paint and contamination.

This product is supplied complete with a 15.2 metre retracting cable reel.

Jaw Opening mm	Cable Length M (max.)	Unit Weight kg	Pack Quantity	Part Number
35	15.2	6.00	1	SDR 040



Lightning Protection Miscellaneous Products



Medium Duty Earthing Clamp with 3 Metre Cable

This medium duty stainless steel earthing clamp is primarily used for earthing buckets, small drums, containers and plant equipment. The clamp consists of twin tungsten carbide teeth, which allows for effective penetration of paint and contamination.

This product is supplied complete with chemically resistant Cen-Stat 3m spiral cable and 10mm ring terminal.

Jaw Opening mm	Cable Length M (max.)	Unit Weight kg	Pack Quantity	Part Number
15	3.0	0.56	1	VESX 45

Material: Stainless Steel.



Static Discharge Reel with Medium Duty Earthing Clamp

This medium duty stainless steel earthing clamp is primarily used for earthing buckets, small drums, containers and plant equipment. The clamp consists of twin tungsten carbide teeth, which allows for effective penetration of paint and contamination.

This product is supplied complete with a 6.1 metre retracting cable reel.

Jaw Opening mm	Cable Length M (max.)	Unit Weight kg	Pack Quantity	Part Number
15	6.1	3.00	1	SDR 030





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Lightning Protection

Miscellaneous Products



Static Discharge Reel with Medium Duty Earthing Clamp

This medium duty stainless steel earthing clamp is primarily used for earthing buckets, small drums, containers and plant equipment. The clamp consists of twin tungsten carbide teeth, which allows for effective penetration of paint and contamination.

This product is supplied complete with a 9.2 metre retracting cable reel.

Jaw Opening mm	Cable Length M (max.)	Unit Weight kg	Pack Quantity	Part Number
15	9.2	2.25	1	VESX 45/R30

Lightning Protection Miscellaneous Products



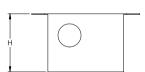
Wallis Lightning & Surge Event Counter

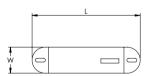
The Wallis Lightning & Surge Event Counter is used to register the number of direct lightning strikes and surge events. This product comes with many features and benefits.

- Long service life due to the fact that no battery is needed.

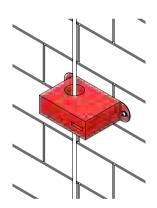
- Sensitive response with trigger current at 500A.
 Can register very high lightning strikes up to 150kA 8/20.
 32mm through hole, easy to install and use, a simple insertion of the down conductor is required.
- IP67 for outdoor installation.
- · Mechanical count, 6 digit display.

Counting Current (rise time ≥8µs)	> 500A				
Sequence of Impulse	> 1s				
Display Model	Electromechanical digital display				
Indicator	0~99999				
Current Sample Mode	Inductive Probe (Built-in) No battery needed				
Working Mode					
Operation Temperature (°C)	-20~+60				
Dimension of Window (mm)	32				
Dimension of Counter (mm)	150 x 80.5 x 36				
Enclosure Material	Steel				
Degree of Protection	IP67				
Part Number	WSPLSC				











Free-Standing Air Terminals



Free-Standing Air Terminals

A range of free-standing lightning interception terminals for the protection of roof-mounted equipment on surfaces where no penetration of the roof structure for anchoring is allowed.

A multi-component, stackable system with screw retention to achieve protection heights of up to 12m.

The Free-Standing Air Terminal system is designed to withstand wind speeds of up to 190kmh (118mph). The table on page 128 details the required components for installation in different wind speed zones. We recommend that all concrete bases are installed using the Protective Roof Pads (Wallis part number PRP 001).

Terminal Height m	Components m	Unit Weight kg	Pack Quantity	Part Number
3.0	Two-piece: 1.5 + 1.5	5.00		ATF 030
3.5	Two-piece: 2.0 + 1.5	5.50		ATF 035
4.0	Two-piece: 2.5 + 1.5	7.00		ATF 040
4.5	Two-piece: 3.5 + 1.0	9.20		ATF 045
5.0	Two-piece: 3.5 + 1.5	10.00		ATF 050
5.5	Two-piece: 4.0 + 1.5	10.60		ATF 055
6.0	Three-piece: 2.0 + 2.0 + 2.0	18.00		ATF 060
6.5	Three-piece: 2.5 + 2.0 + 2.0	21.20	1	ATF 065
7.0	Three-piece: 3.0 + 2.0 + 2.0	23.50		ATF 070
7.5	Three-piece: 3.5 + 2.0 + 2.0	26.00		ATF 075
8.0	Three-piece: 4.0 + 2.0 + 2.0	28.70		ATF 080
9.0	Three-piece: 4.0 + 2.5 + 2.5	30.50		ATF 090
10.0	Three-piece: 5.0 + 2.5 + 2.5	35.50		ATF 010
11.0	Three-piece: 5.0 + 3.5 + 2.5	37.80		ATF 011
12.0	Three-piece: 6.0 + 3.5 + 2.5	42.90		ATF 012

Material: Stainless Steel with Aluminium tip.



Free-Standing Air Terminals

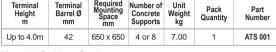
Free-Standing Air Terminal Supports

A range of supports to suit the free-standing air terminals shown on page 126. See table on page 128 for recommended component configuration.

Square Plate Support

For use with air terminals up to 4m. Used in conjunction with square concrete bases.

Terminal Height m	Height Barrel Ø S		Number of Concrete Supports	Unit Weight kg	Pack Quantity	Part Number
Up to 4.0m	42	650 x 650	4 or 8	7.00	1	ATS 001





Material: Stainless Steel.

Tripod Supports

For use with air terminals between 4.5m and 10m. Used in conjunction with round concrete bases.

Terminal Height m	Terminal Barrel Ø mm	Required Mounting Space mm	Number of Concrete Supports	Unit Weight kg	Pack Quantity	Part Number
4.5 - 5.5	42	1350 x 1350	3	8.00		ATT 001
6.0 - 8.0	60	1850 x 1850	6	25.00	1	ATT 002
9.0 - 10.0	60	1850 x 1850	10	40.00		ATT 003



Material: Stainless Steel.

Quad Support

For use with air terminals between 11m and 12m. This item comes with 36 concrete bases (32 x 16kgs + 4 x 12kgs).

Terminal Height m	Height Barrel Ø Mounting		Number of Concrete Supports Unit Weight kg		Pack Quantity	Part Number	
11.0 - 12.0	60	3400×3400	36	697.00*	1	ATQ 001	

Material: Stainless Steel.

*The unit weight is including the concrete supports. The weight of the base frame is 137KGS



Wall Mounting Bracket

For use with air terminals up to 12m.

Terminal Height m	Terminal Barrel Ø mm	Required Mounting Space mm	Wall Distance mm	Unit Weight kg	Pack Quantity	Part Number
Up to 12.0m	60	300 x 300	200	8.55	1	ATW 002









Concrete Bases

Square

Used in conjunction with the Square Plate Support.

Base Weight kg	Size mm	Height mm	Pack Quantity	Part Number
12	000 000	60	4	SCB 012
16	300 x 300	80	1	SCB 016

Material: Concrete.

Round

Used in conjunction with the Tripod and Quad Supports. Integral M16 Thread.

Base Weight kg	Ø mm	Height mm	Pack Quantity	Part Number	
12	380	75		RCB 012	
16	380	93	1	RCB 016	
20	380	105	l l	RCB 020	
25	420	105		RCB 025	

Material: Concrete.

Protective Roof Pad

Suit all sizes of round and square concrete bases. Protects waterproof roofing membrane from damage.

Size	Pack	Part
mm	Quantity	Number
Ø 445 / 300 x 300	1	PRP 001

Material: Rubber.

Free-Standing Air Terminal System

		Wind Speeds								
Terminal Height	Terminal Part	Up to 130 kmh (81 mph)		Up to 150 kmh (93 mph)		Up to 170 kmh (106mph)		Up to 190 kmh (118 mph)		
m	Number	Support	Concrete Bases	Support	Concrete Bases	Support	Concrete Bases	Support	Concrete Bases	
3.0	ATF 030	ATS 001	SCB 012 x 4	ATS 001	SCB 012 x 4	ATS 001	SCB 012 x 4	ATS 001	SCB 012 x 4	
3.5	ATF 035	ATS 001	SCB 012 x 4	ATS 001	SCB 012 x 4	ATS 001	SCB 016 x 4	ATS 001	SCB 016 x 4	
4.0	ATF 040	ATS 001	SCB 012 x 4	ATS 001	SCB 016 x 4	ATS 001	SCB 012 x 8	ATS 001	SCB 016 x 8	
4.5	ATF 045	ATT 001	RCB 016 x 3	ATT 001	RCB 020 x 3	ATT 001	RCB 025 x 3	ATT 002	RCB 012 x 6	
5.0	ATF 050	ATT 001	RCB 016 x 3	ATT 001	RCB 020 x 3	ATT 001	RCB 025 x 3	ATT 002	RCB 012 x 6	
5.5	ATF 055	ATT 001	RCB 020 x 3	ATT 001	RCB 025 x 3	ATT 002	RCB 012 x 6	ATT 002	RCB 012 x 6	
6.0	ATF 060	ATT 002	RCB 012 x 6	ATT 002	RCB 012 x 6	ATT 002	RCB 012 x 6	ATT 002	RCB 016 x 6	
6.5	ATF 065	ATT 002	RCB 012 x 6	ATT 002	RCB 012 x 6	ATT 002	RCB 016 x 6	ATT 002	RCB 025 x 6	
7.0	ATF 070	ATT 002	RCB 012 x 6	ATT 002	RCB 016 x 6	ATT 002	RCB 020 x 6	*	*	
7.5	ATF 075	ATT 002	RCB 016 x 6	ATT 002	RCB 020 x 6	ATT 002	RCB 025 x 6	*	*	
8.0	ATF 080	ATT 002	RCB 020 x 6	ATT 002	RCB 025 x 6	ATT 003	RCB 025 x 10	*	*	
9.0	ATF 090	ATT 003	RCB 025 x 10	ATT 003	RCB 025 x 10	ATT 003	RCB 025 x 10	*	*	
10.0	ATF 010	ATT 003	RCB 025 x 10	ATT 003	RCB 025 x 10	*	*	*	*	
11.0	ATF 011	ATQ 001	-	ATQ 001	-	*	*	*	*	
12.0	ATF 012	ATQ 001	-	ATQ 001	-	*	*	*	*	

^{*} Please contact our sales office for information and advice.



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