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**Date:** 25 May 2017  
**Lichfields ref:** 50303/04/HS/AK/13881690v1  
**Sirius ref:** 40-LCH-AUT-LE-0002  
**Your ref:** NYM/2014/0676/MEIA



Dear Mark

**North York Moors: Additional Information NYM/2017/0258/CVC:  
Application to Partially Discharge Planning Condition 68 of Planning  
Permission NYM/2014/0676/MEIA to Cover Phase 3 Works**

Thank you for your time on 10 May 2017 and your confirmation that the temporary telecommunication columns for Woodsmith Mine could be considered under Planning Application NYM/2017/0258/CVC (application to partially discharge the Phase 3 planning conditions), currently with the North York Moors National Park Authority (NYMNPA) for consideration.

This documentation is being submitted under planning condition 68 (temporary structures) of NYM/2014/0676 and should be read in conjunction with the 'Temporary Structures' document submitted to the NYMNPA under NYM/2017/0258/CVC on 24 April 2017 (specifically Appendix 7 of the CEMP).

**Background**

On 19 October 2015, the NYMNPA granted planning permission for the *"Winning and working of polyhalite by underground methods including the construction of a minehead at Dove's Nest Farm involving access, maintenance and ventilation shafts, the landforming of associated spoil, the construction of buildings, access roads, car parking and helicopter landing site, attenuation ponds, landscaping, restoration and aftercare and associated works. In addition, the construction of an underground tunnel between Doves Nest Farm and land at Wilton that links to the mine below ground, comprising 1 no. shaft at Doves Nest Farm, 3 no. intermediate access shaft sites, each with associated landforming of associated spoil, the construction of buildings, access roads and car parking, landscaping, restoration and aftercare, and the construction of a tunnel portal at Wilton comprising buildings, landforming of spoil and associated works"* (Council Reference NYM/2014/0676/MEIA).

Condition 68 of Planning Permission NYM/2014/0676/MEIA requires that *"final details of all temporary structures, including samples of materials proposed including colour shall be submitted to and approved by the MPA prior to construction. The temporary structures as approved shall be implemented in complete accordance with the details agreed. For the avoidance of doubt this also includes colours of the generator stacks"*



## **Proposals**

Sirius Minerals Plc (Sirius Minerals) is proposing to erect 5 temporary standalone telecommunication columns at Woodsmith Mine. The columns will be a maximum of 10 metres in height (including antennae) and will be erected within the 'potential installation areas' shown on the attached 'Woodsmith Mine Security and Communications Mast Locations' plan (Drawing No. 40-SMP-WS-72-PA-DR-0001).

Similar to the time-lapse camera column supported by the NPA under planning condition 93 for the Phase 1 works (NYM/2017/0148/CVC), each column will be of fixed or tilt over design, will have an ancillary enclosure box akin to that shown on the attached Rittal – CS New Basic Enclosure Specifications document, and will be erected on a 1.5m x 1.5m concrete pad.

Full details of the design of these structures are set out in the attached documents (WEC, Fixed & Tilt-Over Tubular Columns FMT and TPT Range, WEC, Tilt-Over Towers WD Range; and Rittal – CS New Basic Enclosure Specifications).

The columns will be used to support telecommunication infrastructure (antennae etc.), CCTV cameras and other such support infrastructure required on site during construction.

## **Assessment**

Mobile phone/wi-fi coverage at Woodsmith Mine is extremely weak and unreliable at present. The provision of dedicated on-site telecommunication services would significantly boost the level of phone/wi-fi coverage available and would ensure that the movement of vehicles and people across the site can be monitored at all times for health and safety reasons.

The columns have each been sited to minimise their visual impact on the adjoining landscape. Where possible, the columns have been located in areas which are least visible from the adjoining public highway, are screened by existing mature vegetation and sit on the least elevated parts of the site. Five low-level columns have also been chosen in place of a single, much larger (30 metre +) mast which would be visible from a much wider area.

## **Conclusion**

We trust that you now have all necessary information to partially discharge condition 68 to cover Phase 3 works. However, should you have any queries or wish to discuss the matter further, please do not hesitate to contact me on the telephone number above.

Yours sincerely/faithfully

**Aisling Kelly**  
Associate Director

Copy Simon Carter, Sirius Minerals Plc  
William Woods, Sirius Minerals Plc

Encl Woodsmith Mine Security and Communications Mast Locations (Drawing No40-SMP-WS-72-PA-DR0001)

WEC, Fixed & Tilt-Over Tubular Columns FMT and TPT Range

WEC, Tilt-Over Towers WD Range

Rittal – CS New Basic Enclosure Specifications



### Technical Specification

#### General Specification

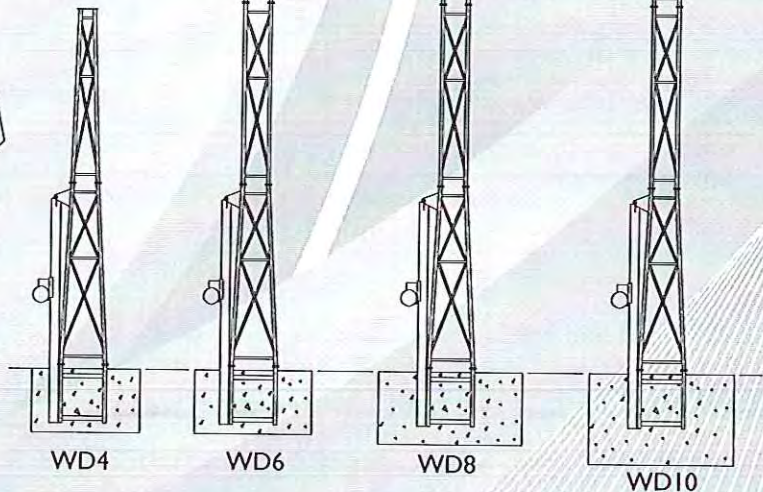
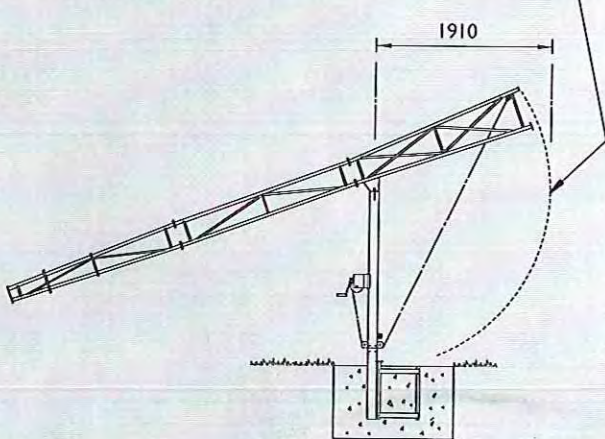
- Galvanized for maximum weather protection & low maintenance
- Standard pan and tilt fixings of 101.6 PCD
- Fixings included for telemetry receiver
- Built in cable entry and exit points
- Two and three metre sectional construction
- Equipment loading of up to 25kg
- Buried root or flange-mounted versions available
- Heights available from 4 to 12 metres
- Compatible with WEC adaptors and accessories

#### Safety Notice

It is important that all operatives are familiar with all operating instructions and procedures.

Maximum equipment load on all towers 25kg.

Clear area before lowering tower



Tilt-Over Towers

#### Standards Applicable

- Structural Steelwork: BS EN 10210-1:1994, BS EN 10210-2:1997
- General Steelwork: BS1449:1991, BS1387:1985, BS EN 10025:1993
- Hot Dipped Galvanized: BS EN ISO 1461:1999
- Welding Procedures: Comply with BS5135:1984
- Fasteners: Grade 8.8 BS3692:2001, BS4190:2001, DIN931, DIN934
- Design Wind Loading: In accordance with CP3 chapter V Pt 2 & BS 6399 Pt 2:1997

Transferable winch unit allows reduced cost in multi-site servicing and secure installation.

WUA - Heavy duty  
WUB - Light duty

Hi.	Winch Selection	
4m	WUA	WUB
6m	WUA	WUB
8m	WUA	—
10m	WUA	—

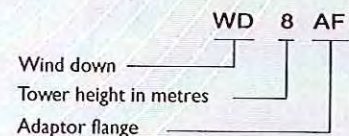
#### Removable Winches

Although the WUA auto brake winch is initially more expensive, it has the versatility to cover the range of WEC products and has a quicker operating action.

#### Accessories & Adaptors

Part ref.	Description
WD/ACB1	Anti Climb Bracket
WD/ACB1-M	Security mesh welded in lower section
WD/Paint	Painting in BS4800 & RAL colours
WDAF	Adaptor Flange Version
WD/SDA	Swept Dome Adaptor
WD/SDA2	Swept Dome Adaptor Dual
WD/TCA	Tower Clamp Adaptor
WD/PT1/S2	1 Pan & Tilt c/w 2 Static Adaptors
WD/TPTA	Twin Pan & Tilt Adaptor
WD/4SA	Quadruple Static Adaptor
WD/3SA	Triple Static Adaptor
WD/2SA	Twin Static Adaptor
WD/1SA	Pan & Tilt - Single fixed
WD/CS150-300	Column Spacers 150mm-300mm
WD/ARB1	Anti ram bollard (cast-in)

#### Product Ref & Ordering Information



**Base and Windload Specification**

Concrete Foundation Table X x Y x Z							
Model Ref	Ht.	Area of Country			Area of Town		
		A	B	C	A	B	C
WD4	4m	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.
WD6	6m	1.2x1.2x 0.6m Dp.	1.3x1.3x 0.65m Dp.	1.3x1.3x 0.65m Dp.	1.2x1.2x 0.6m Dp.	1.2x1.2x 0.6m Dp.	1.2x1.2x 0.6m Dp.
WD8	8m	1.3x1.3x 0.65m Dp.	1.4x1.4x 0.7m Dp.	1.4x1.4x 0.7m Dp.	1.3x1.3x 0.65m Dp.	1.4x1.4x 0.7m Dp.	1.4x1.4x 0.7m Dp.
WD10	10m	1.4x1.4x 0.7m Dp.	1.5x1.5x 0.75m Dp.	1.6x1.6x 0.8m Dp.	1.5x1.5x 0.75m Dp.	1.5x1.5x 0.75m Dp.	1.6x1.6x 0.8m Dp.

A minimum soil bearing pressure of 75 KN/m<sup>2</sup> is assumed



**Installation Method**

1. From the map, select location of installation
2. Excavate as per recommended area and depth
3. Assemble root base as shown in fig. 1
4. Place cable duct in position, if required, and firmly secure
5. Support root in the excavation using locally supplied timber or similar
6. Ensure all three mounting pads are level and protruding 45mm to 50mm above finished concrete level
7. Pour in concrete, ensuring a mix of C35 to table 6 BS 81 10, tamp down and level surface
8. Check that all three pads are still level and leave to cure for a minimum of 72 hours prior to erecting the tower

**Technical Support**

Our in-house design facility enables us to manufacture towers to any customer specification. The technical sales department will offer expert advice on any exact requirements. Full training and instruction on the erection of towers, fixings, safe use and procedures is available on all WEC products. Project engineers, installation teams and service engineers, will all benefit from practical demonstrations, all of which can be shown on our own test site facility.

Foundation sizes are determined for three sets of wind speeds, which will cover most of the British Isles.

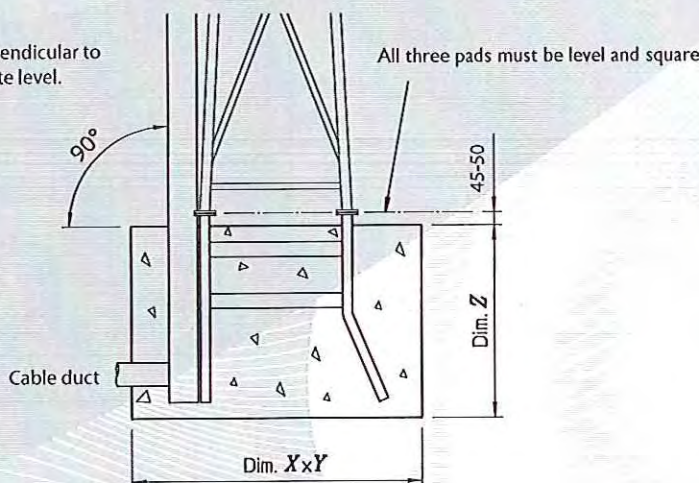
- Area A = 44m/s (98mph)
- Area B = 48m/s (107mph)
- Area C = 52m/s (116mph)

Maximum gust speed is likely to be exceeded on average once every 50 years at 10m above the ground in open level country.

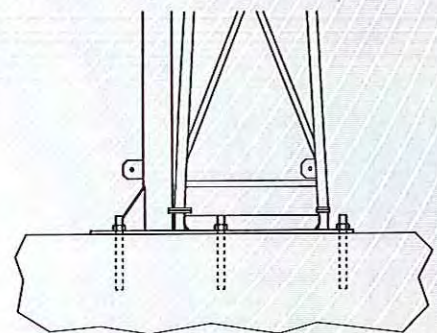
fig. 1

Buried Root Type (WD)

Ensure mast is perpendicular to the finished concrete level.

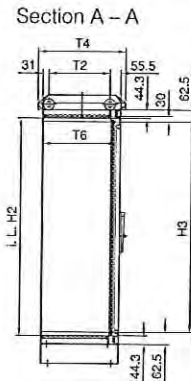
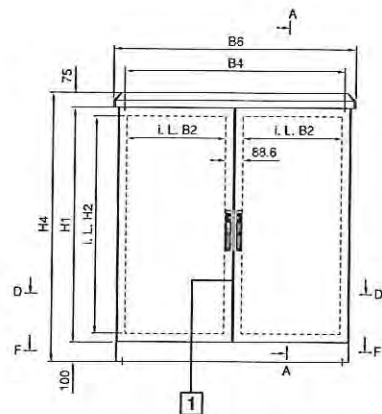
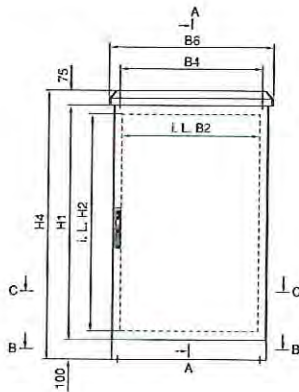


Adaptor Flange Mounted Type



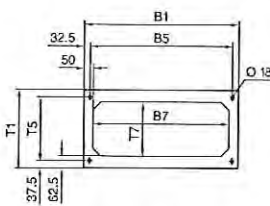
## CS basic enclosures

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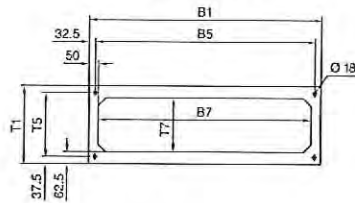


1 Centre bar may be dismantled

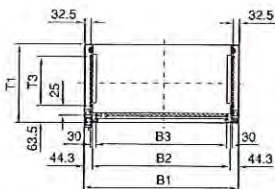
Section B – B



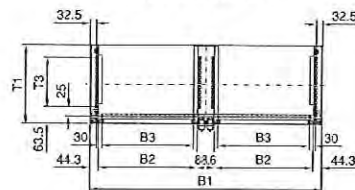
Section F – F



Section C – C



Section D – D



- B1 = Width of basic enclosure/standard base/plinth
- B2 = Clearance between enclosure frame sections
- B3 = Section length of system punchings
- B4 = Centre-to-centre distance between eyebolts
- B5 = Hole distance between plinth and base attachment
- B6 = Width of roof (overall width)
- B7 = Clearance of standard base/plinth opening
- H1 = Height of basic enclosure
- H2 = Clearance between enclosure frame sections
- H3 = Section length of system punchings
- H4 = Overall height
- T1 = Depth of basic enclosure/standard base/plinth
- T2 = Centre-to-centre distance between eyebolts
- T3 = Section length of system punchings
- T4 = Roof depth (overall depth)
- T5 = Hole distance between plinth and base attachment
- T6 = Possible mounting depth
- T7 = Clearance of standard base/plinth opening

Enclosures		Width dimensions mm							Height dimensions mm				Depth dimensions mm						
without centre bar	with centre bar	B1	B2	B3	B4	B5	B6	B7	H1	H2	H3	H4	T1	T2	T3	T4	T5	T6	T7
9783.040	–	600	512	475	540	535	650	500	800	712	675	975	400	315	300	450	325	349	275
9783.050	–	600	512	475	540	535	650	500	1200	1112	1075	1375	400	315	300	450	325	349	275
9783.060	–	600	512	475	540	535	650	500	1400	1312	1275	1575	400	315	300	450	325	349	275
9783.030	–	600	512	475	540	535	650	500	1200	1112	1075	1375	500	415	400	550	425	449	375
9783.010	–	800	712	675	740	735	850	700	800	712	675	975	400	315	300	450	325	349	275
9783.020	–	800	712	675	740	735	850	700	1200	1112	1075	1375	400	315	300	450	325	349	275
9783.120	–	800	712	675	740	735	850	700	1400	1312	1275	1575	400	315	300	450	325	349	275
9783.110	–	800	712	675	740	735	850	700	1200	1112	1075	1375	500	415	400	550	425	449	375
9784.110	9784.010	1200	512	475	1140	1135	1250	1100	800	712	675	975	400	315	300	450	325	349	275
9784.120	9784.020	1200	512	475	1140	1135	1250	1100	1200	1112	1075	1375	400	315	300	450	325	349	275
9784.140	9784.040	1200	512	475	1140	1135	1250	1100	1200	1112	1075	1375	500	415	400	550	425	449	375
9784.130	9784.030	1200	512	475	1140	1135	1250	1100	1400	1312	1275	1575	400	315	300	450	325	349	275

WINPA  
25 MAY 2017

## Fixed & Tilt-Over Tubular Columns FMT and TPT Range

**FMT Range**

The highly popular FMT range offers an extremely cost-effective, unobtrusive and practical solution for many camera mounting scenarios. This versatile tubular CCTV column is supplied with a lockable access door and backboard for terminations. Suitable for installation in all areas, this range remains the specifier's preferred choice for the cost-conscious.

**TPT Range**

The TPT range provides the ultimate in attractive, low maintenance, engineer friendly camera mounting solutions. This CCTV column offers ease of installation, with the major benefit of safe ground level servicing. The TPT range is a robust version of the tilting column, featuring a square section lower post, with a tubular upper section. Suitable for mounting in low risk public areas, the TPT range offers many practical engineering benefits, along with being unobtrusive and aesthetically pleasing.

**Sales Direct:**Website: [www.wec.uk.net](http://www.wec.uk.net)



# Fixed & Tilt-Over Tubular Columns FMT and TPT Range

## FMT Range

### Design Features

- A cost-effective solution for achieving desired camera height.
- Excellent stability characteristics for minimal camera movement.
- Suitable for all public access areas.
- A desirable column where aesthetics are of importance.
- Flange-mounted 'FM' type root.
- Direct buried column versions - 'DB'.
- 'Pocket' type roots available for restricted foundation locations.
- Totally concealed cable management facility.
- Hot dipped galvanised finish for maximum weather protection and low maintenance requirements.
- Custom and bespoke versions tailored to the customer's requirements.
- Clamp on camera brackets available.

### General Specifications

- Standard pan and tilt fixing of 101.6 PCD.
- Inspection/jointing aperture with backboards as standard.
- Compatible with WEC adaptors, accessories and anti-climbs.
- Equipment loading up to 25kg.
- Variety of standard heights up to 12 metres.
- Camera mount bracket adaptors available.
- Heavy Duty versions now available

### Product Codes

Tubular Columns:

- FMT3\*
- FMT4\*
- FMT5\*
- FMT5 HD\* - new!
- FMT6\*
- FMT6 HD\* - new!
- FMT8\*
- FMT8 HD - new!
- FMT10
- FMT10 HD - new!
- FMT12

\*Ex-stock items

- DBT3
- DBT4
- DBT5
- DBT6
- DBT8
- DBT10
- DBT5HD
- DBT6HD
- DBT8HD
- DBT10HD



Best Seller! FMT6

## TPT Range

### Design Features

- Solid and practical designs.
- The tilt-over column enables camera maintenance at ground level.
- Ideal installations where health & safety requirements are paramount.
- Maintenance and servicing easily and safely effected by one engineer.
- Rigid structure ensures excellent stability characteristics.
- A transferable winch unit allows multi-site servicing and leaves installation tamper proof.
- A desirable column where aesthetics are of importance.
- Flange-mounted 'FM' type root.
- 'Pocket' type roots available for restricted foundation locations.
- Totally concealed cable management facility.
- Hot dipped galvanised finish for maximum weather protection and low maintenance requirements.
- Custom and bespoke versions tailored to the customer's requirements.
- Bespoke items available.

### General Specifications

- Standard pan and tilt fixing of 101.6 PCD.
- Built in cable entry and exit points.
- Compatible with WEC adaptors, accessories and anti-climbs.
- Equipment loading up to 25kg.
- Variety of standard heights from 4 to 10 metres.
- Heavy Duty versions now available

### Product Codes

Tubular Columns:

- TPT4\*
- TPT5\* - new!
- TPT6\*
- TPT6 HD - new!
- TPT8\*
- TPT8 HD - new!
- TPT10

\*Ex-stock items



Best Seller! TPT6 range



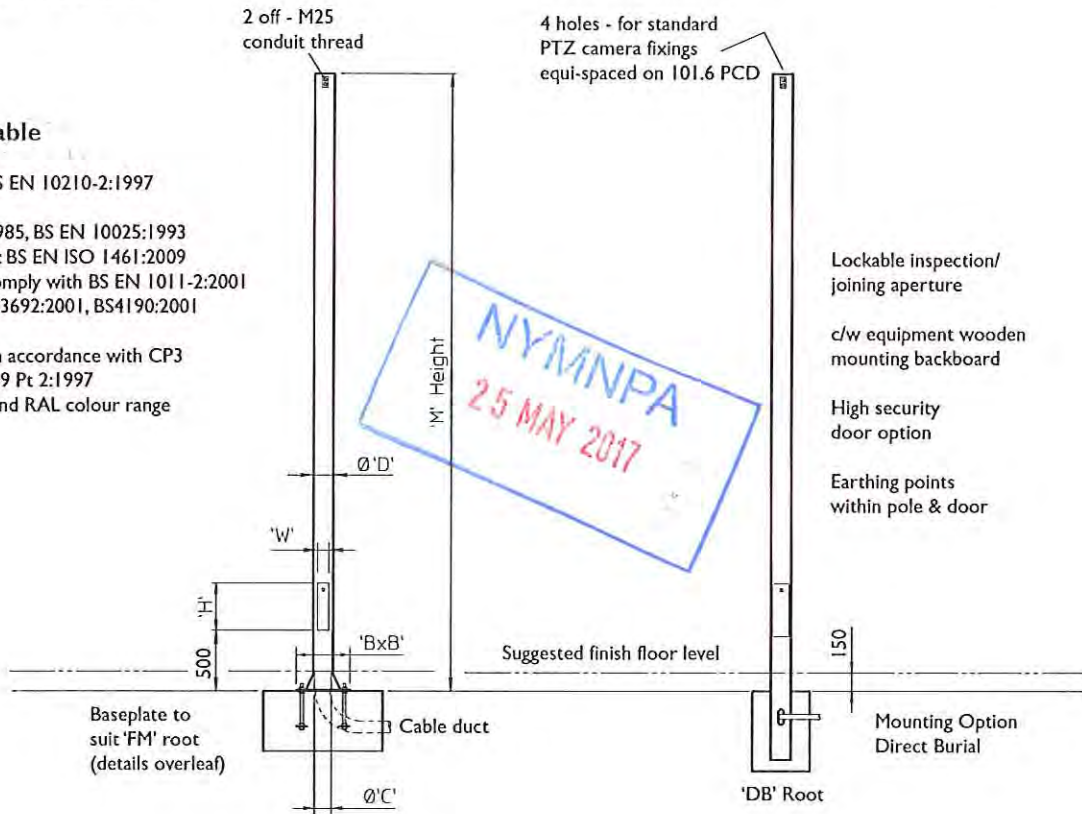
## Technical Specification

Model Ref.	'M' Height	Duty rating	Baseplate size 'BxB'	Cable access hole Ø'C'	Tube diameter 'D'	Door aperture 'H' x 'W'	Maximum equip cap'ty	Weight Kgs.
FMT3	3 metres	Standard	450x450	Ø127	Ø139	360 x 90	25Kg.	60Kg.
FMT4	4 metres	Standard	450x450	Ø127	Ø139	360 x 90	25Kg.	75.1Kg.
FMT5	5 metres	Standard	450x450	Ø127	Ø139	360 x 90	25Kg.	120.7Kg.
FMT5HD		Heavy duty	450x450	Ø155	Ø168	360 x 118	25Kg.	142Kg.
FMT6	6 metres	Standard	450x450	Ø127	Ø139	360 x 90	25Kg.	137.3Kg.
FMT6HD		Heavy duty	450x450	Ø155	Ø168	360 x 118	25Kg.	162.1Kg.
FMT8	8 metres	Standard	450x450	Ø155	Ø168	360 x 118	25Kg.	196.3Kg.
FMT8HD		Heavy duty	450x450	Ø200	Ø219	460 x 118	25Kg.	244.9Kg.
FMT10	10 metres	Standard	450x450	Ø200	Ø219	460 x 118	25Kg.	317.5Kg.
FMT10HD		Heavy duty	450x450	Ø250	Ø273	556 x 214	25Kg.	469.3Kg.
FMT12	12 metres	Standard	450x450	Ø250	Ø273	556 x 214	25Kg.	552.1Kg.

All dimensions in mm unless otherwise stated

### Standards Applicable

- Structural Steelwork: BS EN 10210-1:1994, BS EN 10210-2:1997
- General Steelwork: BS1449:1991, BS1387:1985, BS EN 10025:1993
- Hot Dipped Galvanized: BS EN ISO 1461:2009
- Welding Procedures: Comply with BS EN 1011-2:2001
- Fasteners: Grade 8.8 BS3692:2001, BS4190:2001 DIN931, DIN934
- Design Wind Loading: In accordance with CP3 chapter V Pt 2 & BS 6399 Pt 2:1997
- Paint Finishes: BS4800 and RAL colour range

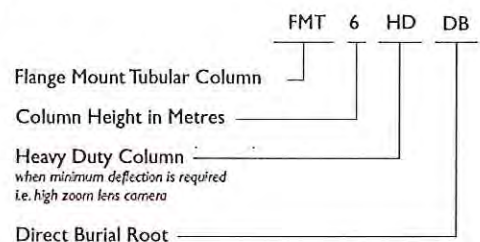


### Accessories & Adaptors

- |            |                                    |
|------------|------------------------------------|
| FMT/ACB    | Anti-Climb Bracket                 |
| FMT/Paint  | Paint to BS4800 & RAL Colours      |
| FMT/SDA    | Swept Dome Adaptor                 |
| FMT/SDA2   | Swept Dome Adaptor Dual            |
| FMT/PT1-S2 | 1 Pan & Tilt c/w 2 Static Adaptors |
| FMT/TPTA   | Twin Pan & Tilt Adaptor            |
| FMT/4SA    | Quadruple Static Adaptor           |
| FMT/3SA    | Triple Static Adaptor              |
| FMT/2SA    | Twin Static Adaptor                |
| FMT/ISA    | Pan & Tilt - Single Fixed          |

- |               |                            |
|---------------|----------------------------|
| FMT/CS150-300 | Column Spacers 150mm-300mm |
| FMT/TBC       | Telemetry Clamp Bracket    |
| FMT/HSD-F     | High Security Door Option  |
| FMT/DB        | Decorative Banding         |

### Product Ref & Ordering Information



## Base and Windload Specification

Concrete Foundation Table X x Y x Z							
Model Ref	Ht.	Area of Country			Area of Town		
		A	B	C	A	B	C
FMT4 FMT4HD	4m	0.8x0.8x 0.4m Dp.	0.9x0.9x 0.45m Dp.	0.9x0.9x 0.45m Dp.	0.8x0.8x 0.4m Dp.	0.8x0.8x 0.4m Dp.	0.8x0.8x 0.4m Dp.
FMT5 FMT5HD	5m	0.9x0.9x 0.45m Dp.	0.9x0.9x 0.45m Dp.	1.0x1.0x 0.5m Dp.	0.9x0.9x 0.45m Dp.	0.9x0.9x 0.45m Dp.	0.9x0.9x 0.45m Dp.
FMT6 FMT6HD	6m	1.1x1.1x 0.55m Dp.	1.1x1.1x 0.55m Dp.	1.2x1.2x 0.6m Dp.	1.0x1.0x 0.5m Dp.	1.1x1.1x 0.55m Dp.	1.1x1.1x 0.55m Dp.
FMT8 FMT8HD	8m	1.3x1.3x 0.65m Dp.	1.4x1.4x 0.7m Dp.	1.4x1.4x 0.7m Dp.	1.2x1.2x 0.6m Dp.	1.3x1.3x 0.65m Dp.	1.3x1.3x 0.65m Dp.
FMT10 FMT10HD	10m	1.5x1.5x 0.75m Dp.	1.6x1.6x 0.8m Dp.	1.6x1.6x 0.8m Dp.	1.4x1.4x 0.7m Dp.	1.5x1.5x 0.75m Dp.	1.5x1.5x 0.75m Dp.
FMT12	12m	1.7x1.7x 0.85m Dp.	1.8x1.8x 0.9m Dp.	1.9x1.9x 0.95m Dp.	1.5x1.5x 0.75m Dp.	1.6x1.6x 0.8m Dp.	1.7x1.7x 0.85m Dp.

A minimum soil bearing pressure of 75 KN/m<sup>2</sup> is assumed

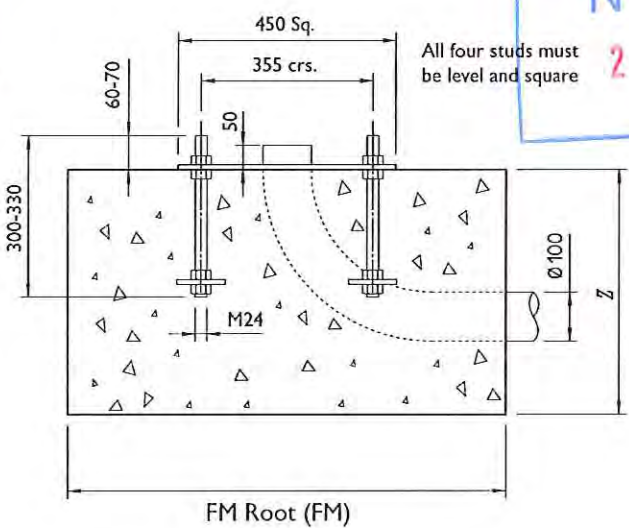
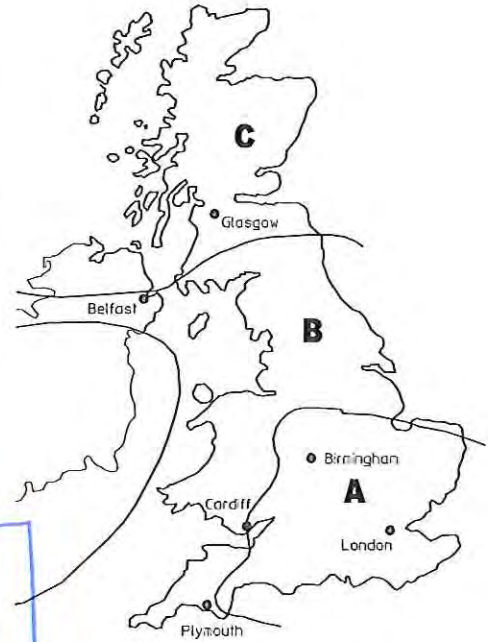
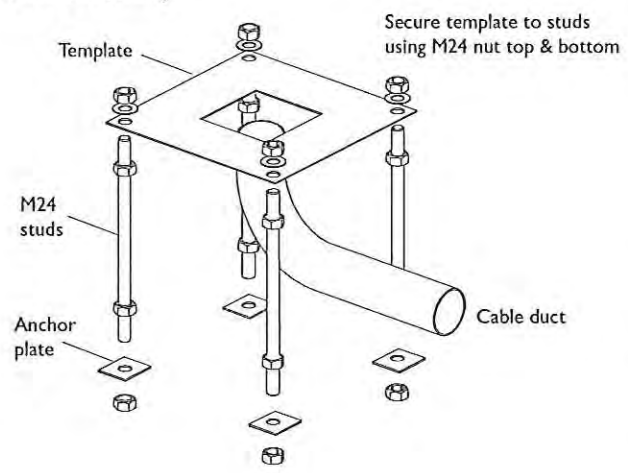


fig. 1  
FM Root Assembly



### Installation Method

1. From the map, select location of installation
2. Excavate as per recommended area and depth
3. Assemble root base as shown in fig. 1
4. Insert root base into the hole ensuring that it is level and that the four studs protrude 60-70mm above the concrete foundation
5. Fit the cable duct if routing via the interior of the column. A plastic pipe of approximately 100mm outside diameter is recommended for this. Ensure this protrudes through the template by 50mm (min).
6. Pour concrete ensuring that it is a mix of C35 to table 6 BS 8110 and then tamp down well
7. Fit the setting template over the four protruding studs, double-checking that they are level and that clear access can be gained to the cable duct if it is being used.
8. Leave the concrete to cure for a minimum of 72 hours prior to attempting to erect the column
9. When fitting the column, ensure that the concrete base is in complete contact with the underside of column and grout accordingly if required. Torque the nuts to 230-270 Nm (175-200 ft. lb.)
10. When the column has been fitted, protect studs with a suitable protective coating. Denzo tape or similar is recommended for this.

Foundation sizes are determined for three sets of wind speeds, which will cover most of the British Isles.

- Area A = 44m/s (98mph)
- Area B = 48m/s (107mph)
- Area C = 52m/s (116mph)

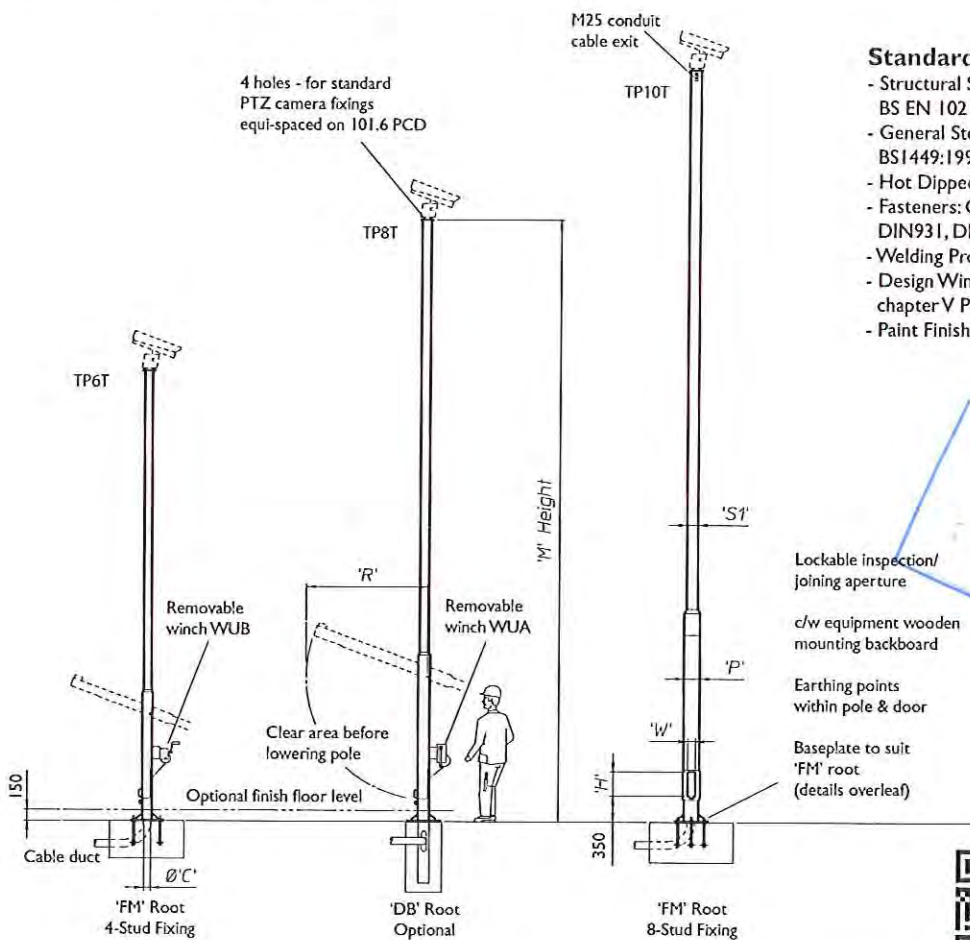
Maximum gust speed is likely to be exceeded on average once every 50 years at 10m above the ground in open level country.

### Technical Specification

Model Ref.	Height 'M'	Tilting rear clearance 'R'	Post Section 'P'	Pivot Section 'S'	Door aperture 'H' x 'W'	Cable access hole Ø'C'	Maximum equip cap'ty	Weight Kgs.	Winch Selection
TP4T	4 mtr.	1150	120x120	Ø114	325 x 105	Ø108	25Kg.	92 Kgs.	WUA or WUB
TP5T	5 mtr.	1150	120x120	Ø114	325 x 105	Ø108	25Kg.	100Kgs.	WUA or WUB
TP6T	6 mtr.	1150	120x120	Ø114	325 x 105	Ø108	25Kg.	140Kgs.	WUA or WUB
TP8T	8 mtr.	1650	150x150	Ø139	325 x 105	Ø140	25Kg.	305Kgs.	WUA
TP10T	10 mtr.	2150	200x200	Ø193	325 x 105	Ø200	25Kg.	335Kgs.	WUA

All dimensions in mm unless otherwise stated

TPT/WUA Heavy Duty  
TPT/WUB Light Duty



### Standards Applicable

- Structural Steelwork: BS EN 10210-1:1994, BS EN 10210-2:1997
- General Steelwork: BS1449:1991, BS1387:1985, BS EN 10025:1993
- Hot Dipped Galvanized: BS EN ISO 1461:2009
- Fasteners: Grade 8.8 BS3692:2001, BS4190:2001 DIN931, DIN934
- Welding Procedures: Comply with BS EN 1011-2:2001
- Design Wind Loading: In accordance with CP3 chapter V Pt 2 & BS 6399 Pt 2:1997
- Paint Finishes: BS4800 and RAL colour range



- Lockable inspection/joining aperture
- c/w equipment wooden mounting backboard
- Earthing points within pole & door
- Baseplate to suit 'FM' root (details overleaf)



Scan this code on your smartphone to access our Operating Instructions and Videos on our website!

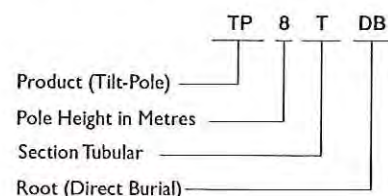
### Accessories & Adaptors

- TPT/ACB Anti-Climb Bracket
- TPT/Paint Paint to BS4800 & RAL Colours
- TPT/SDA Swept Dome Adaptor
- TPT/SDA2 Swept Dome Adaptor Dual
- TPT/PT1-S2 1 Pan & Tilt c/w 2 Static Adaptors
- TPT/TPTA Twin Pan & Tilt Adaptor
- TPT/3SA Triple Static Adaptor
- TPT/2SA Twin Static Adaptor
- TPT/ISA Pan & Tilt - Single Fixed

- TPT/CS150-300 Column Spacers 150mm-300mm
- TPT/TBC Telemetry Clamp Bracket
- TPT/HSD-F High Security Door Option
- TPT/DB Decorative Banding

**Removable Winches**  
Although the WUA auto brake winch is initially more expensive, it has the versatility to cover the range of WEC products and has a quicker operating action.

### Product Ref & Ordering Information



## Base and Windload Specification

Concrete Foundation Table X x Y x Z							
Model Ref	Height	Area of Country			Area of Town		
		A	B	C	A	B	C
TP4T	4m	1.0x1.0x 0.5m Dp.	1.1x1.1x 0.55m Dp.	1.1x1.1x 0.55m Dp.	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.	1.1x1.1x 0.55m Dp.
TP5T	5m	1.0x1.0x 0.5m Dp.	1.1x1.1x 0.55m Dp.	1.1x1.1x 0.55m Dp.	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.	1.1x1.1x 0.55m Dp.
TP6T	6m	1.0x1.0x 0.5m Dp.	1.1x1.1x 0.55m Dp.	1.1x1.1x 0.55m Dp.	1.0x1.0x 0.5m Dp.	1.0x1.0x 0.5m Dp.	1.1x1.1x 0.55m Dp.
TP8T	8m	1.2x1.2x 0.6m Dp.	1.3x1.3x 0.65m Dp.	1.3x1.3x 0.65m Dp.	1.1x1.1x 0.55m Dp.	1.2x1.2x 0.6m Dp.	1.3x1.3x 0.65m Dp.
TP10T	10m	1.4x1.4x 0.7m Dp.	1.5x1.5x 0.75m Dp.	1.5x1.5x 0.75m Dp.	1.3x1.3x 0.65m Dp.	1.3x1.3x 0.65m Dp.	1.4x1.4x 0.7m Dp.

A minimum soil bearing pressure of 75 KN/m<sup>2</sup> is assumed

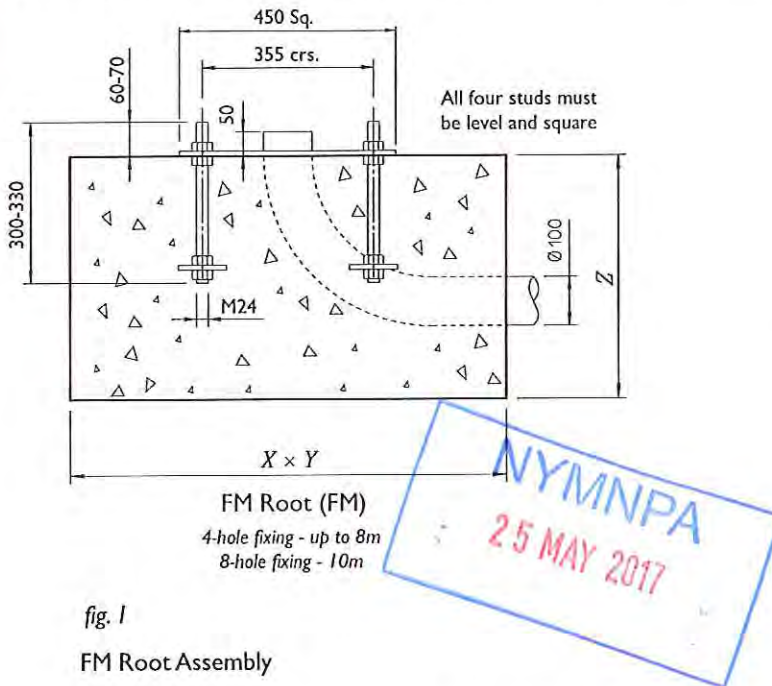
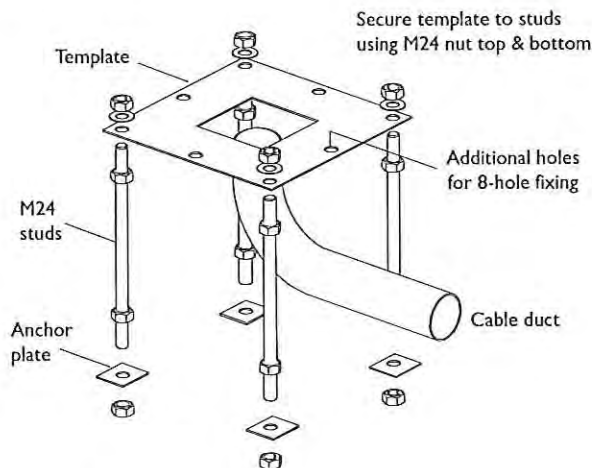


fig. 1

FM Root Assembly



## Installation Method

1. From the map, select location of installation
2. Excavate as per recommended area and depth
3. Assemble root base as shown in fig. 1
4. Insert root base into the hole ensuring that it is level and that the four studs protrude 60-70mm above the concrete foundation
5. Fit the cable duct if routing via the interior of the column. A plastic pipe of approximately 100mm outside diameter is recommended for this. Ensure this protrudes through the template by 50mm minimum.
6. Pour concrete ensuring that it is a mix of C35 to table 6 BS 8110 and then tamp down well
7. Fit the setting template over the four protruding studs, double-checking that they are level and that clear access can be gained to the cable duct if it is being used
8. Leave the concrete to cure for a minimum of 72 hours prior to attempting to erect the column
9. When fitting the column, ensure that the concrete base is in complete contact with the underside of the column and grout accordingly
10. When the column has been fitted, protect the studs with a suitable protective coating. Denzo tape or similar is recommended for this

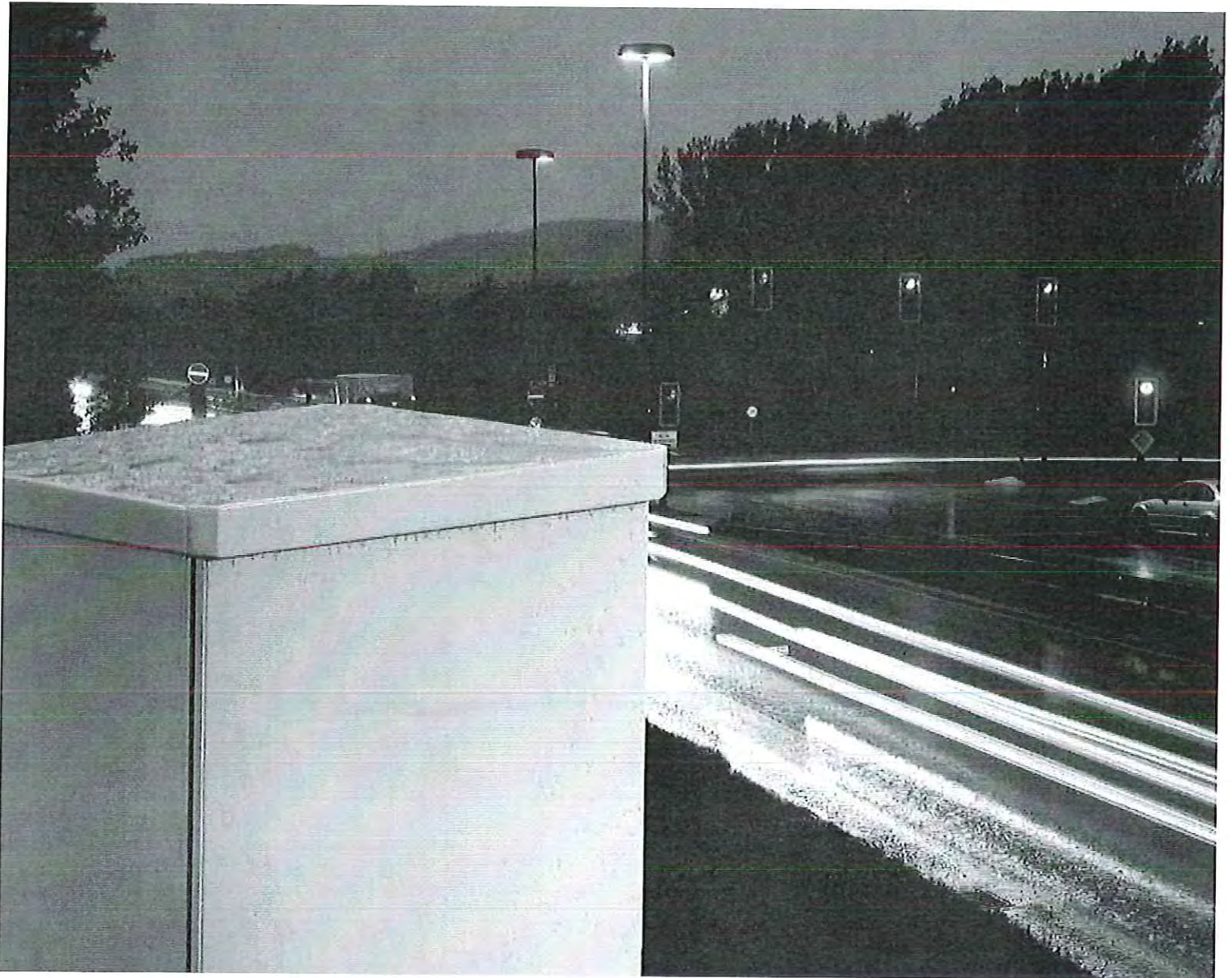
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Maximum gust speed is likely to be exceeded on average once every 50 years at 10m above the ground in open level country.



# Rittal – CS New Basic enclosure



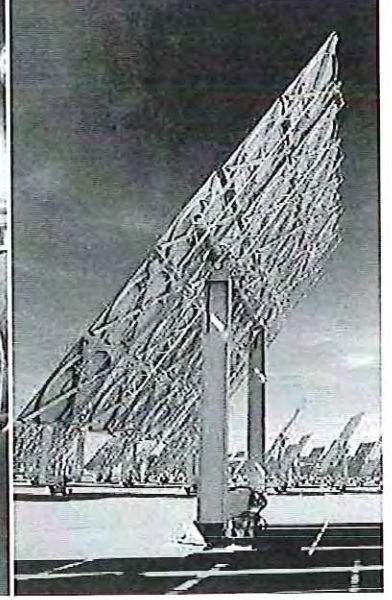
Premium quality that pays

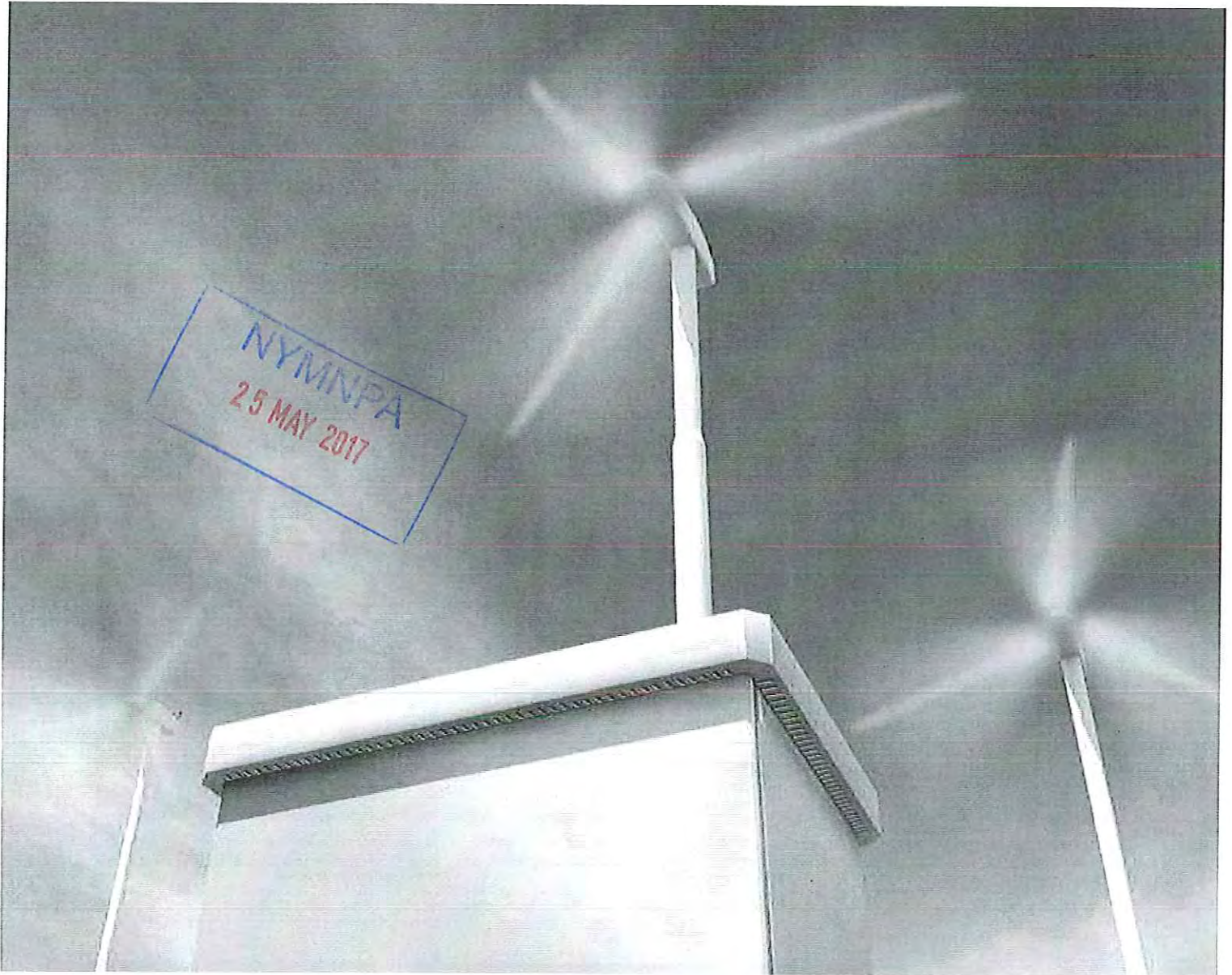


# Added value means exactly that

Rittal CS New Basic enclosures draw on our extensive expertise and provide access to an established platform offering enormous diversity. Telecommunications, information technology, traffic guidance technology, energy and environmental engineering all demand adaptability to the local and climatic conditions. Every cubic centimetre benefits from our extensive expertise in the development and production of enclosures, climate control and system integration, as well as our passion for incorporating new ideas. The same goes for our extensive range of system accessories, because as well as enclosures, Rittal also offers a comprehensive range of system solutions, from A through to Z, worldwide.

**Best of all, CS New Basic is available directly off the shelf.**





Rittal CS Outdoor systems are not limited to certain markets. Our formula is very simple: Rittal's products are as varied as its customers and the requirements they place on our performance.

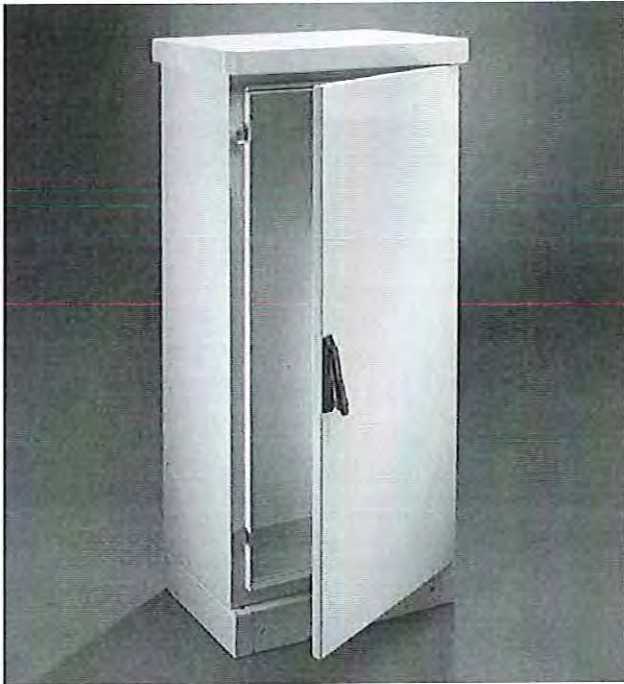
The single-walled outdoor enclosure CS New Basic may be used in all situations where

- A high volume of cables needs to be efficiently distributed
- Predominantly passive technology is used
- Robust system engineering with minimal climate control requirements is the order of the day.

Rittal outdoor enclosures are designed for virtually all climatic zones, even those with extreme conditions, such as permafrost regions, where temperatures can drop to minus 30°C, or the subtropical heat of the equator. The CS New Basic enclosure is ideal for all these scenarios, thanks to the use of aluminium and the high protection category of IP 55.

# CS New Basic enclosures

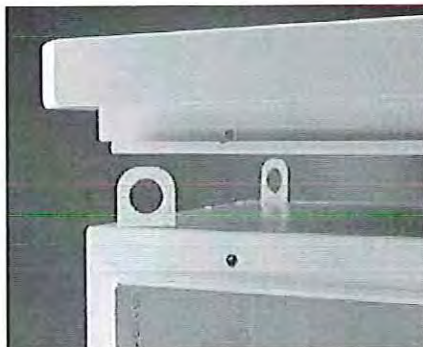
## Features



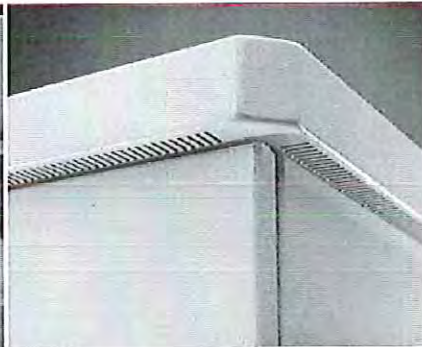
High-quality protection against corrosion, a high protection category of up to IP 55 and an extensive range of system accessories make the single-walled aluminium **CS New Basic enclosure** ideal for all applications with minimal installed heat loss or passive interior installation.

The flexibility and diversity of configuration options will satisfy the full range of industry requirements:

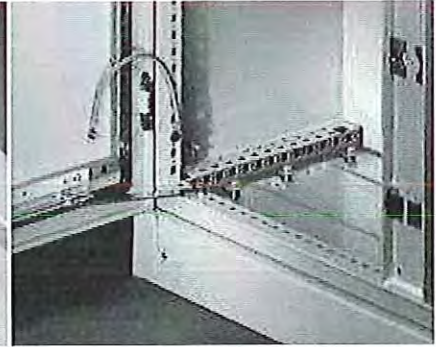
Telematics, supply systems, environmental engineering, telecommunications and the water industry.



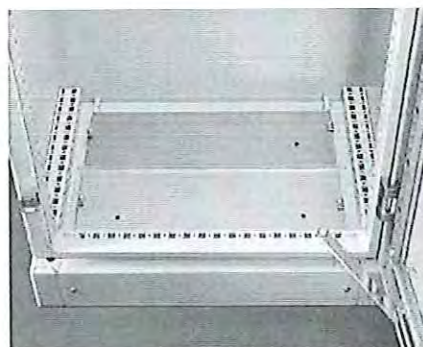
**Eyebolts** on the inner roof, concealed by the rain canopy, for crane transportation of the fully fitted unit.



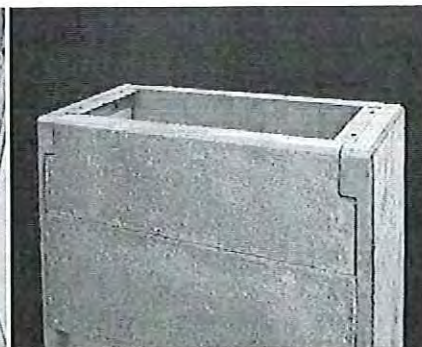
All-round **ventilation louvres** in the removable rain canopy – with a roof projection of 25 mm on all sides.



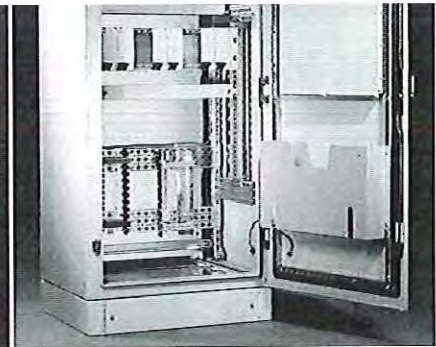
Width 1200 mm: **With removable centre bar** and two lockable doors or without centre bar, with overlapping doors.



The open base frame may be covered with **gland plates**.



**Concrete base/plinth** for cable infeed and to ensure enclosure stability.

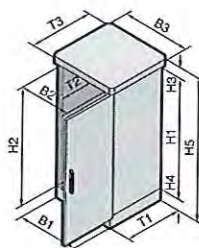


Individual installation with an **extensive range of system accessories**.



# CS New Basic enclosures

single-door, width 600/800 mm



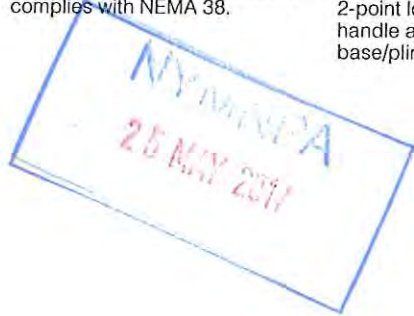
**Material:**  
Enclosure, roof and doors:  
2.0 mm aluminium AIMg3  
Base/plinth:  
3.0 mm aluminium AIMg3  
**Colour:**  
RAL 7035

**Protection category:**  
IP 55 to EN 60 529/09.2000  
in conjunction with the gland  
plates available as accessories;  
complies with NEMA 38.

**Supply includes:**  
Single-walled enclosure,  
closed on all sides,  
with open base,  
2-point locking via swing lever  
handle and lock cylinder,  
base/plinth, rain canopy.

**Detailed drawing,**  
available on the Internet.

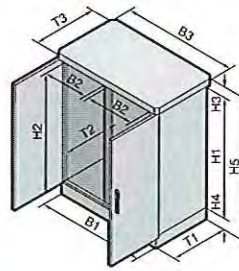
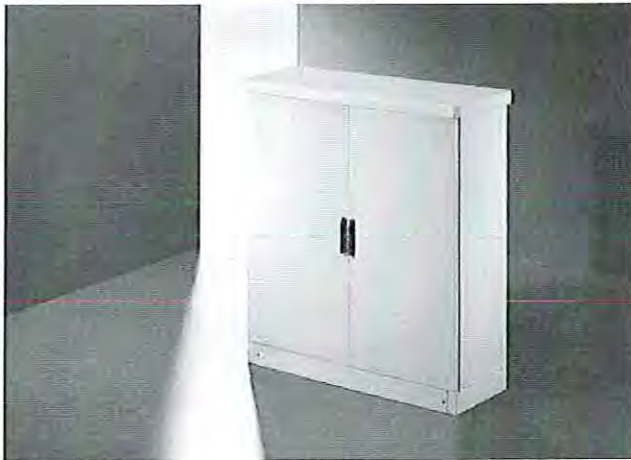
**Note:**  
When configuring with partial  
mounting plates or 482.6 mm  
(19") partial installation,  
punched rails are required in the  
enclosure height,  
see Catalogue 32, page 998.



Width (B1) mm	Packs of	600	600	600	800	800	800	Page
Height (H1) mm		800	1200	1200	800	1200	1200	
Depth (T1) mm		400	400	500	400	400	500	
Clearance width (B2) mm		512	512	512	712	712	712	
Clearance height (H2) mm		712	1112	1112	712	1112	1112	
Clearance depth (T2) mm		349	349	449	349	349	449	
Rain canopy width (B3) mm		650	650	650	850	850	850	
Rain canopy height (H3) mm		55	55	55	55	55	55	
Rain canopy depth (T3) mm		450	450	550	450	450	550	
Base/plinth height (H4) mm		100	100	100	100	100	100	
Overall height (H5) mm		955	1355	1355	955	1355	1355	
<b>Model No. CS</b>	<b>1</b>	<b>9783.540</b>	<b>9783.550</b>	<b>9783.530</b>	<b>9783.510</b>	<b>9783.520</b>	<b>9783.610</b>	
<b>Accessories</b>								
Concrete base/plinth	1	9765.182	9765.182	9765.082	9765.088	9765.088	9765.084	Cat. 32, page 900
One-piece gland plate	1 set	9785.517	9785.517	9785.520	9785.518	9785.518	9785.519	7
Gland plate, divided	1 set	9785.511	9785.511	9785.514	9785.512	9785.512	9785.513	7
Cable entry plate	2	8800.060	8800.060	8800.060	8800.080	8800.080	8800.080	Cat. 32, page 1045
Mounting plate	1	9765.090	9765.092	9765.092	9765.097	9765.095	9765.095	7
Mounting angles 482.6 mm (19"), full installation	2	7685.000	7688.000	7688.000	7685.000	7688.000	7688.000	Cat. 32, page 1093
Installation kit for mounting angles	2	7696.000	7696.000	7696.000	7698.000	7698.000	7698.000	Cat. 32, page 1093
Heater 800 W	1	9769.080	9769.080	9769.080	9769.080	9769.080	9769.080	Cat. 32, page. 709
Thermostat	1	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	Cat. 32, page 715
Semi-cylinder, alternative closure	1	9785.040	9785.040	9785.040	9785.040	9785.040	9785.040	Cat. 32, page 957

# CS New Basic enclosures

## two-door, width 1200 mm



**Material:**

Enclosure, roof and doors:  
2.0 mm aluminium AIMg3  
Base/plinth:  
3.0 mm aluminium AIMg3

**Colour:**  
RAL 7035

**Protection category:**

IP 55 to EN 60 529/09.2000  
in conjunction with the gland  
plates available as accessories;  
complies with NEMA 38.

**Supply includes:**

Single-walled enclosure closed  
on all sides,  
with open base,  
2-point locking via swing lever  
handle and lock cylinder  
Version without centre bar:  
Overlapping doors,  
lockable door with r/h hinge.  
Version with centre bar:  
2 lockable doors,  
base/plinth, rain canopy,  
removable centre bar.

**Detailed drawing,**

available on the Internet.

**Note:**

When configuring with partial  
mounting plates or 482.6 mm  
(19") partial installation,  
punched rails are required in the  
enclosure height,  
see Catalogue 32, page 998.



Width (B1) mm	Packs of	1200	1200	Page
Height (H1) mm		1200	1200	
Depth (T1) mm		400	500	
Clearance width (B2) mm		512	512	
Clearance height (H2) mm		1112	1112	
Clearance depth (T2) mm		349	449	
Rain canopy width (B3) mm		1250	1250	
Rain canopy height (H3) mm		55	55	
Rain canopy depth (T3) mm		450	550	
Base/plinth height (H4) mm		100	100	
Overall height (H5) mm		1355	1355	
<b>Model No. CS without centre bar</b>	1	<b>9784.620</b>	<b>9784.640</b>	
<b>Model No. CS with centre bar</b>	1	<b>9784.520</b>	<b>9784.540</b>	
<b>Accessories</b>				
Concrete base/plinth	1	9765.089	9765.086	Cat. 32, page 900
One-piece gland plate	1 set	2 x 9785.517	2 x 9785.520	7
Gland plate, divided	1 set	2 x 9785.511	2 x 9785.514	7
Cable entry plate	2	8800.060	8800.060	Cat. 32, page 1045
Mounting plate for one half of the enclosure	1	9765.092	9765.092	Cat. 32, page 987
Mounting plate	1	9765.191	9765.191	7
Mounting angles, 482.6 mm (19"), for one half of the enclosure	2	7688.000	7688.000	Cat. 32, page 1093
Installation kit for mounting angles	2	7696.000	7696.000	Cat. 32, page 1093
Heater 800 W	1	9769.080	9769.080	Cat. 32, page 709
Thermostat	1	3110.000	3110.000	Cat. 32, page 715
Semi-cylinder, alternative closure	1	9785.040	9785.040	Cat. 32, page 957



## Gland plates

### for CS New Basic enclosures

For sealing the base opening and for cable entry.

#### Material:

One-piece: Aluminium  
Divided: Sheet steel, zinc-plated, passivated

#### Surface finish:

Divided: Powder-coated, RAL 7035

#### Supply includes:

Assembly parts.

For enclosure dimensions		Packs of	Model No. CS	
Width mm	Depth mm		One-piece	Divided
600	400	1 set	9785.517	9785.511
600	500	1 set	9785.520	9785.514
800	400	1 set	9785.518	9785.512
800	500	1 set	9785.519	9785.513
1200	400	1 set	2 x 9785.517	2 x 9785.511
1200	500	1 set	2 x 9785.520	2 x 9785.514



## Internal door

### for CS New Basic and CS Modular enclosures

As a vertically hinged and lockable trim panel, to accommodate switches, buttons and operating panels. Mounted with r/h or l/h hinge in a 600 mm or 800 mm wide enclosure.

In 1200 mm wide enclosures, a central punched rail should be used to retain the lock.

#### Material:

Aluminium, 2 mm

#### Supply includes:

Assembly parts.

For enclosure dimensions		Model No. CS
Width mm	Height mm	
600/1200	800	9785.031
600/1200	1200	9785.032
800	800	9785.034
800	1200	9785.035



## Mounting plates

For the configuration of mounting levels. The mounting plates are depth-adjustable on a 25 mm pitch pattern.

#### Material:

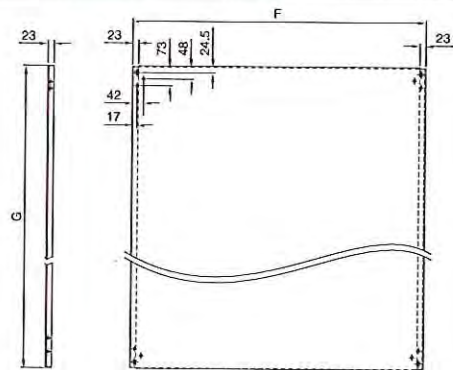
Aluminium, 3 mm

#### Supply includes:

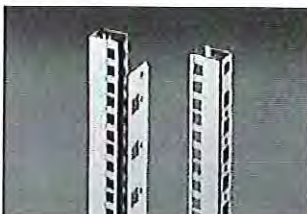
Assembly parts.

#### Note:

For an enclosure width of 1200 mm, partial installation with one or two 600 mm wide mounting plates is possible.



For enclosure		F	G	Model No. CS
Width mm	Height mm			
600	800	499	696	9765.090
600	1200	499	1096	9765.092
800	800	699	696	9765.097
800	1200	699	1096	9765.095
1200	1200	1099	1096	9765.191



## Mounting angles, 482.6 mm (19")

For mounting 482.6 mm (19") components in Outdoor enclosures.

For detailed information and mounting kits, see Catalogue 32, page 1093.

Enclosure height mm	U	Packs of	Model No. DK
800	15	2	7685.000
1200	24	2	7688.000
1400	29	2	7689.000
1600	33	2	7690.000

# All in all – solutions from Rittal



Industrial Enclosures



Power Distribution



Electronic Packaging



System Climate Control



IT Solutions



Communication Systems



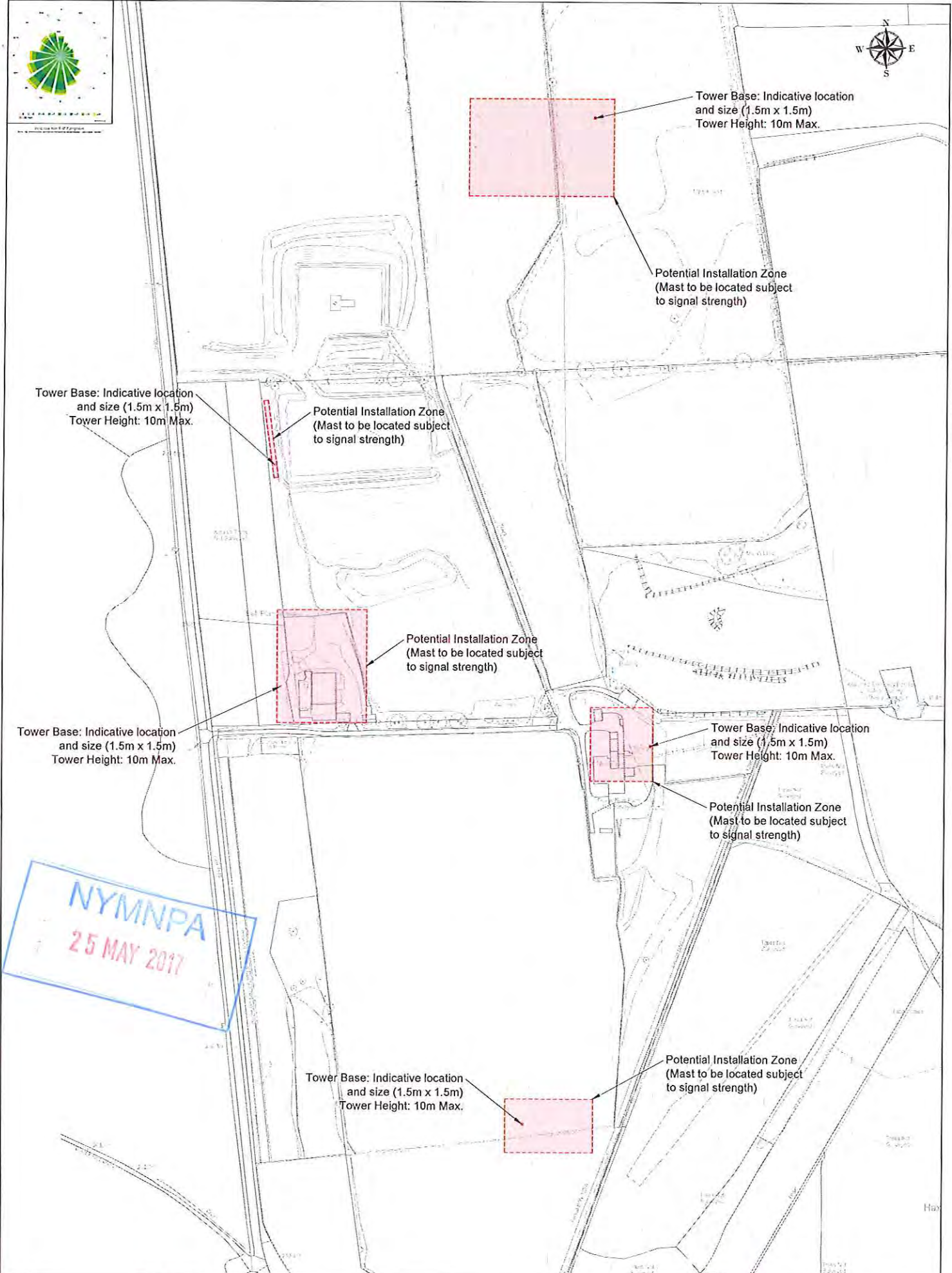
Outdoor enclosures · Climate control units  
System integration

Rittal has one of the largest ranges of enclosures available for immediate delivery. However, Rittal also supplies integrated solutions – up to Level 4. This comprises mechanical installation, power supply, electronic components, climate control and central monitoring. For all of your requirements.

Fully assembled and functional. Wherever in the world you develop and implement solutions for yourself and your customers, we are close at hand. The global alliance between production, distribution and service guarantees closeness to the customer. Worldwide!

03/08 · 68A1







**SIRIUS**  
SECURITY AND COMMUNICATIONS

Project: Woodsmith Mine Security and Communications Mast Locations  
 Date: 25 May 2017  
 Scale: 1:1,250  
 X: ProjectCAD - GIS DATA 1000 - Mine Development

**Woodsmith Mine Security and Communications Mast Locations**

43-EMP-WS-72-PA-CR-001