

openreach

ISIS practice
For Openreach People & our Partners

AEI/AEC/B375

Issue 2, 11-Apr-2023
Use until 11-Apr-2025

Published by Openreach Overhead Policy Team

Privacy- None

Changes to Overhead Policy

Clarification of current and addition of new rules

About this document ...

Author

The author of this document may be contacted at:

Tahsin Sabur
Openreach Graduate - Technical Consultancy
Openreach (BOI)
Post Point Orion Building
Adastral Park
Martlesham Heath
Ipswich
IP5 3RE

Telephone: +443316265616
Fax:
Email: tahsin.sabur@openreach.co.uk

Content approval

This is the Issue 2 of this document.

The information contained in this document was approved on 11-Apr-2023
by Wes Grantham, Overhead Network Policy and Standards Professional.

Version History

Version No.	Date	Author	Comments
Issue 2	11-April-2023	Tahsin Sabur	Changes to section 4.2
Issue 1	22-Sep-2022	Tahsin Sabur	Initial document

Table of Content

1	EXECUTIVE SUMMARY	5
2	STATUS	5
3	SCOPE	5
4	DETAIL	5
4.1	BACKGROUND FOR CHANGE	5
4.2	LIST OF CHANGES	5
5	TRAINING	9
6	QUALITY STANDARDS	9
7	ACCREDITATION	9
8	QUALITY CHECKS AND INDEPENDENT AUDIT	9
9	CONTRACT IMPACT	9
10	PIA IMPACT	9
11	REFERENCE DOCUMENTATION	9
11.1	ISIS:	9
11.2	MANUFACTURER'S INSTRUCTIONS	10
11.3	QUALITY	10
11.4	ACCREDITATION DOCUMENTS	10
11.5	FPQ	10
11.6	SUPPLY CHAIN	10
11.7	COMMUNICATIONS	10

1 ***Executive Summary***

This AEC is being issued to advise of the latest requirements with regard to attachments to Poles. These rules have also been incorporated into the specification for PIA CP work (CP08). Please see section 4 for full details.

2 ***Status***

- Information and action where required.
- New working standard.

3 ***Scope***

- All people (DL and Partners) involved in planning, audit and execution of works in the Openreach Overhead network.

4 ***Detail***

4.1 **Background for change**

As the use of PIA increases and the Openreach fibre roll out continues to grow at pace, pole tops are becoming increasingly congested. These changes have been introduced to enable optimum use of pole top space without compromising safety.

4.2 **List of changes**

4.2.1 **Overhead Cable attachments to Wooden Poles**

Pole top attachments:

- Virtually all poles will have the correct hole drilled through at 200mm down from the tip. Where a Ring Head (or UPB) does not exist, the preferred option is to fit a Ring Head in the pre-drilled hole on the pole.
- On light use distribution scenarios, a maximum of 4 Bracket 22's are permitted on the pole.
- We now allow wires running from pole to pole (routes) to be attached to existing UPB's.

Fibre warning labels

With effect from 4th April 2022, there is no longer any requirement to attach fibre warning labels to BT Poles. It is still a requirement to provide fibre warning labels on DNO owned joint user poles.

4.2.2 Fixing of apparatus to Wooden Poles

Distribution Blocks, CBT's, Connection Boxes, Cable Joints, and Fibre-locking devices may be fitted to wooden poles subject to the following:

- Items must be securely attached to the pole using appropriate materials
- New apparatus shall only be installed on the pole in the areas shown in Figure 2 below.

Note: Existing equipment installed prior to April 2020, which does not meet the requirements shown in Figure 2, may remain in situ, providing that it does not prevent a handhold of the Bass Steps (see 50mm rule in Figure 2).

- Any single CBT, Block Terminal or Box Connection must not exceed the maximum dimension requirements shown in Figure 1 below.
- New apparatus must not be placed on a Pole such that it obstructs access to existing equipment
- Where an CBT/Coil Bracket is used, the cable coil must be fully enclosed and not exceed the width profile of the CBT/Coil Bracket. The coil may though extend vertically beyond the CBT, providing that it remains within the upper space envelope (see Figure 2).
- A maximum of 2 x Multiway CBT Brackets can be accommodated on a Pole. These should be mounted on opposing faces.
- Multiway brackets installed by PIA CPs for their exclusive use, may only be deployed where more than 1 CBT is required for the build activity, at that point in time. Multiway Brackets must not be installed with only 1 CBT attached.

Note: This does not apply to Openreach owned multiway brackets.

- A combined CBT/Coil Bracket system (typically used by PIA CP's) must only be attached onto the side faces of a three-way bracket. The outer face of the bracket must not be used.
- Customer connectivity apparatus e.g. CBTs shall only be provided in the Upper Space Envelope (see Figure 2 below).

- Fibre locking mechanisms (ELM's) shall be located in the lower envelope of space, as shown in Figure 2.
- Where the Lower envelope is being used (for Joints, ELM's etc), a vertical clearance of 450mm must be provided between the Lowermost Climbing Step and the uppermost part of the equipment (Figure 2 refers).

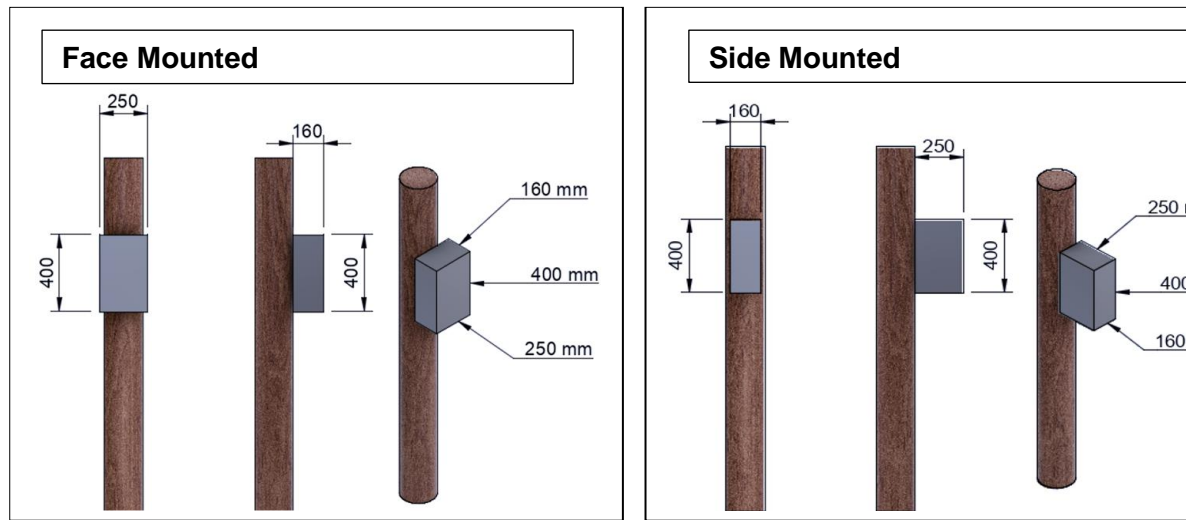


Figure 1: Maximum dimensions for any single CBT, Block Terminal, Box Connection and Coil Bracket system.

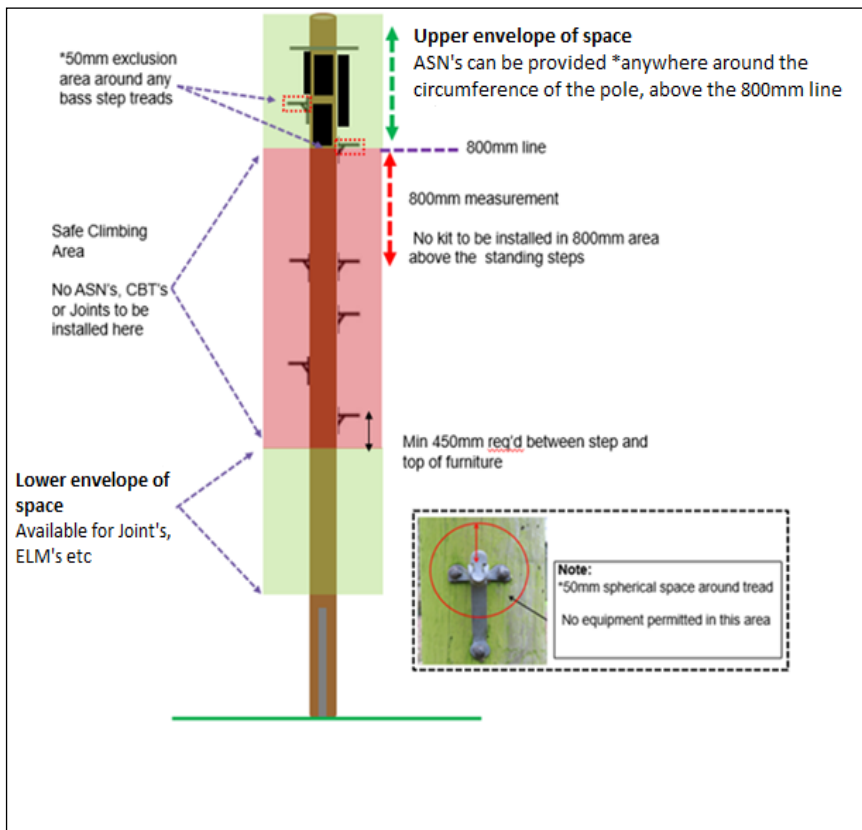


Figure 2: Permitted envelopes of space on Poles.

4.2.3 Cable Coils on Poles

We have introduced maximum extended dimensions for coil brackets: 500mm in horizontal plane and 600mm in the vertical (see Figure 3).

Maximum dimensions of coil brackets on Poles

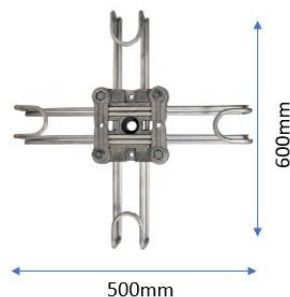


Figure 3: Bracket Dimensions.

Note: These brackets may only be used on BT poles. They must not be used on DNO owned Joint User Poles.

5 *Training*

Training material will require updating.

6 *Quality Standards*

Quality standards have been considered and changes are required.

7 *Accreditation*

Accreditation has been considered and changes are required.

8 *Quality Checks and Independent Audit*

QPW checking and IA checks have been considered and changes are required.

9 *Contract Impact*

The information in this document is issued to Contractors on the following basis:

Mandatory.

10 *PIA Impact*

Content of this AEC is reflected in CP08.

11 *Reference Documentation*

11.1 *ISIS:*

- EPT/OHP/B058
- EPT/COF/C005
- EPT/OHP/B082

- EPT/ANS/A040
- NWK/NNS/V046
- NWK/NNS/V607

11.2 Manufacturer's instructions

Considered and no changes are required

11.3 Quality

Considered and changes are required

11.4 Accreditation Documents

Considered and changes are required

11.5 FPQ

Considered and no changes are required

11.6 Supply Chain

Considered and no changes are required

11.7 Communications

AEC

The Loop

Workplace

Candid

END OF DOCUMENT
