New Build Handbook
Technical Information to support our network build on your site.

This guide is intended to support your on site teams in the deployment of our minimum requirements for civils infrastructure and wiring required in each property. All information within this guide is supplied for information purposes only and does not constitute a change in terms of your agreed contract with Virgin Media.

This is a living document and if printed then all information should be treated as subject to change. If you are unsure of any aspect of this document then please refer to your Virgin Media site contact in the first instance for support.

Stay in touch, upload your new site requests and find our latest technical documentation at...

www.virginmedia.com/developer

Regional site contact details.
How to install on site civils items, such as duct and inspection chambers.
Fire stopping, duct sealing and CPR (LSZH) guidance.
Advice on using media plates and Euro Modules inside your properties.
Guidance on our site feasibility drawings, materials provided and minimum build requirements.
Internal wiring guides for all build types.
Details on our distribution cabinets and what they look like.

Members of...

[Logos of various organizations]
This guide is intended to support both your planning and delivery functions with technical information on our network build. If you have any queries about deployment of Virgin Media network on your site then please contact your local New Build Officer.

Contents:

3 – New Build Site Drawing Guidelines
4 – New Build Best Practice Guidelines
5 – Chamber Sizes and Approved Lids
6 – Preformed vs Brick Chamber Construction
7 – Monobox® Chamber Assembly
8 – Modula® Chamber Assembly
9 – Fortress® Chamber Assembly
10 – Ultima® Chamber Assembly
11 – Brick Built Chambers
12 – Residential Termination Box
13 – Virgin Media Streetworks Requirements
14 – Typical Layout of Duct in Trenches
15 – HFC Distribution Cabinets
16 – FTTP Distribution Cabinets
17 – Why are Street Cabinets Required?
18 – New Build Civils Duct Items
19 – Pre Wire to Individual Points
20 – Pre Wire to an Internal Termination Box
21 – Media Plate Deployment
22 – Face Plates and Euro Modules
23 – In Home Distribution Systems (Single Source/Zone)
24 – Individual MDU Pre Wire
25 – Large MDU Pre Wire
26 – MDU Wall Boxes
27 – HFC and FTTP Comparison
28 – Pre Wire for FTTP
29 – FTTP Blown Fibre on a New Build site
30 – CPR Guidelines for Cabling (LSZH)
31 – Fire Stopping Guidelines
32 – Duct Sealing Guidelines
33 – Build to Rent Solutions
34 – The Effect of Faster Broadband on New Homes
35 – Customer Premised Equipment
36 – Business Products for Home Builders
37 – New Build Contacts – North + Northern Ireland
38 – New Build Contacts – Central + South West
39 – New Build Contacts – South East/Central + London

Colour Key:

Chambers
Duct and Street Cabinets
Pre Wiring Guidance
User Guides and Information
Regional Contacts

Understand the Jargon...

CPR – Construction Products Regulation
HFC – Hybrid Fibre Coaxial
FTTP – Fibre To The Property
LSZH – Low Smoke Zero Halogen
MDU – Multiple Dwelling Unit

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**Drawing Symbols**

**Footway/Carriageway Chamber**
Designation of chamber to be specified as per Virgin Media standards. Works for developer will be highlighted blue and works for Virgin Media contractor will be red.

**Direction of sweep**

**Swept Tee (Lateral Connection)**
Tee’s will be shown “sweeping” in the direction of the serving distribution cabinet as shown in the examples above.

**Duct Arrangements**
Duct routes are all shown as a single line, the number of ducts in the route will be signified by a way count... for example a 2 way duct is signified as 2W but will still show as a single line. For full details on duct arrangements please see drawing VMTD0017d.

**Chamber Dimensions**
- FW2 – 730 x 460 x 465
- FW3 – 750 x 600 x 600
- FW4 – 915 x 445 x 600
- FW6 – 1310 x 610 x 750
- FW10 – 2320 x 740 x 750
- CW1 – 600 x 600 x 900
- CW2 – 1200 x 675 x 900
- CW3 – 1800 x 675 x 900

Approx. brick built chamber dimensions. L x W x D. Dimensions correct as of April 2019, all dimensions in millimetres. For full details on individual chamber specifications please refer to the individual drawing suitable for the cabinet size you require in the Developers Guide. Please note that pre fabricated chamber opening sizes will vary but will still work with the matching sized frame/cover.

**Distribution and Nodal Cabinets**
Cabinets are highlighted as an inverted triangle. If a chamber is required for the cabinet build then this will be highlighted at the base of the cabinet in red to determine Virgin Media contractor works.

**Cabinet Boundaries**
Site layouts will identify the properties served from each cabinet with a dotted line segregating each area. Please bear this in mind when planning the build route and deployment of duct on your site. Ensure cabinet locations are accessible and agreed in advance with your site contact.

**RF Cable Schematics/Blown Fibre Schedule**
Your site contact will confirm the required build schedule of on site cabinets in a pre start meeting, this will help us work with you to plan activation for the site and ensure that all customers can get service in a timely manner.

**Off Site (Virgin Media) Works**
Works to be completed by Virgin Media will be highlighted in red and will encompass all works external to a developers site allowing the Virgin Media network to reach the development.

**On Site (Developers) Works**
On Site works to be completed by developer will be highlighted in blue to show the variation to Virgin Media works. This includes on site chamber construction as part of cabinet deployment.
On Site Materials Storage
Please keep all duct items stored in a secure area to prevent damage/theft. Virgin Media supplies materials free issue but if replacements are required we may levy a charge.

Internal Sockets
Single gang back boxes to be utilised at all times for all points. Wiring to be left with 150mm tails and all internal Coaxial cable runs to be secured with suitable cable clips or ties. Please ensure and blown fibre tubing is secured with the supplied Velcro straps only.

Wiring and Draw Rope
Ensure any external wiring is kept tidy until second fix, draw ropes to be tied off and secured until finish of ground level duct and final cable pull is complete. Avoid the use of Siamese cable to multiple points in a property as it causes excess cable and is more difficult to tidy.

External Presentation
At second fix, Omni boxes must be fitted to tidy external cable looms. Termination boxes to be fitted over duct ends and levelled with the ground. If consideration is given at first fix to ingress points for ourselves and other operators then you can achieve a tidy external finish. If possible, have your telecoms ingress point to the side of your property rather than the front to reduce the impact of external boxes. Remember the minimum distance between core locations should be 350mm.

Site Security
Please ensure your compound is secure, cable drums left out in the open will attract metal thieves.

Duct Formation
Do not mix and match our duct with another operator (Openreach duct on VM and vice versa). Our site liaison will work with your teams to ensure you have enough material to complete any duct routes required by us on site.

Please also ensure that correct chamber lids are used for each operator. Its worth noting that Openreach frame and covers are lockable our covers do not fit so please ensure the correct frames are used in all instances.

New Build Best Practice Guidelines
© 2020 Virgin Media Ltd. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means (Electronic, Mechanical, Photocopying, Recording or otherwise) without the prior written express consent of the Company.
**AX-S™ Concrete Infill**

Cubis AX-S™ Concrete Infill covers are the sole approved footway cover used by Virgin Media. AX-S™ Concrete Infill covers are rated to B125 load classification and meets the requirements of BS EN124: 1994 (B125). All concrete infill lids are slip resistant and have no inherent scrap value.

**AX-S™ Recessed**

Recessed covers are tested (unfilled) to the B125 load classification and can be filled with any material to suit the surrounding area.

In line with industry specification, individual AX-S recessed covers will not weigh more than 78Kg even when filled. This is to allow a single person to lift out the cover using the lift and slide design.

**Silent Knight and Inter-Ax2 Ductile Iron**

Skid resistant D400 class/Group 4 carriageway frame and covers. Suitable for use in carriageway environments only.

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### Chamber Sizes and Approved Lids

<table>
<thead>
<tr>
<th>Chamber Dimensions</th>
<th>Type</th>
<th>Application</th>
<th>Virgin Ref</th>
<th>Standard Depth</th>
<th>Additional Sections Available</th>
<th>B125</th>
<th>D400</th>
</tr>
</thead>
<tbody>
<tr>
<td>550mm x 315mm</td>
<td>Monobox</td>
<td>Footway</td>
<td>FW1</td>
<td>390mm</td>
<td>No</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>730mm x 460mm</td>
<td>Monobox</td>
<td>Footway</td>
<td>FW2</td>
<td>465mm</td>
<td>No</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>750mm x 600mm</td>
<td>Modula</td>
<td>Footway</td>
<td>FW3</td>
<td>600mm</td>
<td>Yes</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>915mm x 445mm</td>
<td>Fortress</td>
<td>Footway</td>
<td>FW4</td>
<td>600mm</td>
<td>Yes</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>1310mm x 610mm</td>
<td>Ultima</td>
<td>Footway</td>
<td>FW6</td>
<td>750mm</td>
<td>Yes</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>2320mm x 740mm</td>
<td>Ultima</td>
<td>Footway</td>
<td>FW10</td>
<td>750mm</td>
<td>Yes</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>600mm x 600mm</td>
<td>Modula</td>
<td>Carriageway</td>
<td>CW1</td>
<td>900mm</td>
<td>Yes</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>1200mm x 675mm</td>
<td>Ultima</td>
<td>Carriageway</td>
<td>CW2</td>
<td>900mm</td>
<td>Yes</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>1800mm x 675mm</td>
<td>Ultima</td>
<td>Carriageway</td>
<td>CW3</td>
<td>900mm</td>
<td>Yes</td>
<td>■</td>
<td>■</td>
</tr>
</tbody>
</table>
Brick built footway and carriageway chambers (single and double skin) have long been the norm on new build sites, most developers see them as the easy option as its “how its always been done”. Working alongside our partner, Cubis, we want to promote the benefits of switching your on site access chamber builds to a pre-formed or modular solution using the Cubis® range of access chambers.

FW4 Box – Brick Built – Based on 2 Chambers per day.

| Concrete Floor | £16 based on £80 per cubic meter. |
| Bricks         | £50 based on £300 per K (approx. 150 bricks per box). |
| Mortar         | £20 estimate. |
| Machine Time   | £15 based on £30ph for forklift. |
| Mixer/Fuel/Misc| £15 estimate. |
| Labour         | £150 based on £20hr bricklayer and £10hr labourer over 10hr shift. |

Total Cost - £266 approx. per box.

Issues…
- Wastage of brick/mortar.
- Speed of build.
- Cannot backfill for 2-5 days until mortar has set.
- Cannot cut duct entries until cured.
- Labour intensive to drill and fix cable management to chamber walls.
- Manual handling of bricks and mortar.
- Quality of finish/snagging required, additional costs to rebuild if required.
- Edge protection issues until backfilled.
- Machine resource required for loading out of materials.
- Weather dependant.

Cubis® Fortress Box – Based on VM specification.

| Concrete Floor | £16 based on £80 per cubic meter. |
| Chamber Sections | £160 based on £40x4 for 600 depth box. |
| Labour          | £33 based on 2 labourers at £10hr. |
| Machine Time    | £10 Provision of type 1 for floor. |

Total Cost - £219 approx. per box.

Advantages…
- Speed of build (Approx. 1 hour per chamber, reduced to 30 minutes without backfill or excavation times added (reliant upon cured concrete base)).
- Reduction of wet trades (less and lower skilled man power required).
- Manual handling issues removed - Removes repetitive movements associated with brick building.
- Backfilled instantly so no edge protection required.
- Simple Duct entry cutting.
- Cable management easy and fast.
- Not weather dependant.

Your local Virgin Media site contact can get you in touch with your local Cubis® representative who can work with you on site to make sure you have the correct materials for your project.

As long as duct entry holes are core drilled as per the manufacturers specification, then a chamber can easily be dis-assembled and moved rather than destroying the unit. As only type 1 backfill is required, a chamber is required to be repositioned then it can be hand dug and replaced with minimal effort compared to rebuilding a 150 brick chamber.

Preformed vs Brick Chamber Construction

<table>
<thead>
<tr>
<th>FW4 Box – Brick Built – Based on 2 Chambers per day.</th>
<th>Cubis® Fortress Box – Based on VM specification.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Floor - £16 based on £80 per cubic meter.</td>
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<tr>
<td>Bricks - £50 based on £300 per K (approx. 150 bricks per box).</td>
<td>Chamber Sections - £160 based on £40x4 for 600 depth box.</td>
</tr>
<tr>
<td>Mortar - £20 estimate.</td>
<td>Labour - £33 based on 2 labourers at £10hr.</td>
</tr>
<tr>
<td>Mixer/Fuel/Misc - £15 estimate.</td>
<td>Total Cost - £219 approx. per box.</td>
</tr>
<tr>
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<td><strong>Advantages…</strong></td>
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<td><strong>Issues…</strong></td>
<td><strong>- Speed of build (Approx. 1 hour per chamber, reduced to 30 minutes without backfill or excavation times added (reliant upon cured concrete base)).</strong></td>
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<td>- Wastage of brick/mortar.</td>
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<td>- Speed of build.</td>
<td><strong>- Manual handling issues removed - Removes repetitive movements associated with brick building.</strong></td>
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<td>- Cannot backfill for 2-5 days until mortar has set.</td>
<td><strong>- Backfilled instantly so no edge protection required.</strong></td>
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<tr>
<td>- Cannot cut duct entries until cured.</td>
<td><strong>- Simple Duct entry cutting.</strong></td>
</tr>
<tr>
<td>- Labour intensive to drill and fix cable management to chamber walls.</td>
<td><strong>- Cable management easy and fast.</strong></td>
</tr>
<tr>
<td>- Manual handling of bricks and mortar.</td>
<td><strong>- Not weather dependant.</strong></td>
</tr>
<tr>
<td>- Quality of finish/snagging required, additional costs to rebuild if required.</td>
<td><strong>As long as duct entry holes are core drilled as per the manufacturers specification, then a chamber can easily be dis-assembled and moved rather than destroying the unit. As only type 1 backfill is required, a chamber is required to be repositioned then it can be hand dug and replaced with minimal effort compared to rebuilding a 150 brick chamber.</strong></td>
</tr>
<tr>
<td>- Edge protection issues until backfilled.</td>
<td><strong>Preformed vs Brick Chamber Construction</strong></td>
</tr>
<tr>
<td>- Machine resource required for loading out of materials.</td>
<td>**</td>
</tr>
<tr>
<td>- Weather dependant.</td>
<td><strong>- Virgin Media do not supply pre formed chamber rings/sections as standard. If you require to purchase these items then please confirm stock availability with your local trade counter. If you require materials direct from Cubis® then please contact your local Virgin Media site contact who can get you in touch with your regional Cubis® representative. Virgin Media can supply these items with our on site materials deliveries but this must be agreed in advance of any contract being agreed for the site. This is not a standard item and is provided as an additional cost service if required.</strong></td>
</tr>
<tr>
<td><strong>Advantages…</strong></td>
<td><strong>- Although we promote the deployment of pre formed solutions, we still support the deployment of brick built chambers. Our site liaison engineers can support whatever your build type is on site.</strong></td>
</tr>
<tr>
<td>- Speed of build (Approx. 1 hour per chamber, reduced to 30 minutes without backfill or excavation times added (reliant upon cured concrete base)).</td>
<td><strong>- If the ground type determines a concrete pre formed chamber then your Virgin Media liaison engineer will make sure that site is aware of requirements and specifications as per the Virgin Media specification.</strong></td>
</tr>
<tr>
<td>- Reduction of wet trades (less and lower skilled man power required).</td>
<td><strong>The figures used in this example are based on industry wide cost samples from October 2017. This will be reviewed regularly to make sure this stays relevant to the current construction climate.</strong></td>
</tr>
<tr>
<td>- Manual handling issues removed - Removes repetitive movements associated with brick building.</td>
<td><strong>A similar example has been worked for the FW6 brick (400 brick count) and a Cubis® Ultimate chamber build with costs of £374 per chamber for both examples. The main difference being brick chambers are estimated on a 2 per day build while the pre-formed chamber is calculated on a 6 per day build schedule. In all examples looked at, pre formed worked out slightly cheaper but the largest benefits come from labour saved, reduction in build and deploy time and number of chambers built per day.</strong></td>
</tr>
<tr>
<td>- Backfilled instantly so no edge protection required.</td>
<td><strong>- Pre formed chambers (when type 1 backfilled) can be moved and re-utilised unlike a brick chamber which would have to be demolished and rebuilt.</strong></td>
</tr>
<tr>
<td>- Simple Duct entry cutting.</td>
<td><strong>As long as duct entry holes are core drilled as per the manufacturers specification, then a chamber can easily be dis-assembled and moved rather than destroying the unit. As only type 1 backfill is required, a chamber is required to be repositioned then it can be hand dug and replaced with minimal effort compared to rebuilding a 150 brick chamber.</strong></td>
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<td><strong>Preformed vs Brick Chamber Construction</strong></td>
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<td><strong>As long as duct entry holes are core drilled as per the manufacturers specification, then a chamber can easily be dis-assembled and moved rather than destroying the unit. As only type 1 backfill is required, a chamber is required to be repositioned then it can be hand dug and replaced with minimal effort compared to rebuilding a 150 brick chamber.</strong></td>
</tr>
</tbody>
</table>
1. All dimensions in millimetres unless otherwise stated.
2. Reinstatement to comply with the requirements of the NRSWA (subject to category).
3. All duct ends to be finished with a bell mouth where possible or finished 50mm from edge of interior wall.
4. The maximum number of duct entries into any single wall is 2.
5. All materials and workmanship to be in accordance with the specification.
6. Virgin Media supplied Cubis Footway covers and frames to be class B125 to BSEN124. A separate riser frame is suggested for this setup and should be utilised.
7. Concrete base and surround (if required) to be low water/cement ratio (low slump) Grade C40/20 for non aggressive soil conditions, for other soil conditions see Eurocode 2 part 1 sections 3 and 6 recommendations and obtain Virgin Media Delivery Engineers approval prior to construction. The mix design shall take full account of ground sulphate content conditions and comply with table 6.1 of Eurocode 2.
8. Concrete base slab to be placed, tamped and surface finished. Cubis pre formed chamber to be installed and levelled to suit before any cuts are made in the assembly.
9. Duct entries vary in number, grouping and orientation. Duct entry positions should be agreed with the Virgin Media Build Engineer prior to construction.
10. Draw lines shall be secured inside chambers by tying off to a suitable fixture or by tying to an approved batten.
11. Backfill to be type 1 as standard and compacted in layers (or lean mix concrete surround if poor soil conditions).
12. Chamber frame and cover to be bedded with haunching mix (wet) or epoxy resin if required.

**Monobox © Chamber Dimensions**

**FW1** – 550 x 315 x 433 **Inside**, 832 x 592 x 433 **Outside**

**FW2** – 730 x 460 x 503 **Inside**, 1037 x 707 x 503 **Outside**

50 Min. Duct core hole spacing should be no more than 50% of the largest duct size i.e. 50mm for a 100mm duct utilised.

**Please Note** – Ducts should never enter through the bottom lip of the chamber as structural integrity will be compromised.

Virgin Media approved and supplied concrete inset chamber lid to B125 for either FW1 or FW2 assembly. Cubis recommends the use of the Riser Frame unit with this assembly.

For the Monobox assembly, all core cuts must be at least 50mm from the base of the unit to maintain structural integrity.
1. All dimensions in millimetres unless otherwise stated.
2. Reinstatement to comply with the requirements of the NRSWA (subject to category).
3. All duct ends to be finished with a bell mouth where possible or finished 50mm from edge of interior wall.
4. All materials and workmanship to be in accordance with the specification.
5. Virgin Media supplied Cubis Footway covers and frames are class B125 to BSEN124 and Saint Gobain carriageway are class D400.
6. Concrete base (for carriageway chambers) and surround to be low water/cement ratio(low slump) Grade C40/20 for non aggressive soil conditions, for other soil conditions see Eurocode 2 part 1 sections 3 and 6 recommendations and obtain Virgin Media Delivery Engineers approval prior to construction. The mix design shall take full account of ground sulphate content conditions and comply with table 6.1 of Eurocode 2.
7. Concrete base slab to be placed, tamped and surface finished. Cubis chamber rings to be installed and levelled to suit.
8. Duct entries vary in number, grouping and orientation. Duct entry positions should be agreed with the Virgin Media Build Engineer prior to construction.
9. Draw lines shall be secured inside chambers by tying off to a suitable fixture or by tying to an approved batten.
10. Standard backfill requirements for an FW3 chamber shall be type 1 in all circumstances unless further support is required then concrete backfill is recommended. CW1 standard backfill shall be a concrete surround when used in a D400 category situation.
11. For full build guidelines please refer to the Cubis Installation guide found on their website.

**Please Note** – Ducts should never enter through the bottom section or the top 2 sections without prior approval from your Virgin Media site contact.

Duct entry holes in Modula assemblies must be core drilled. Cubis recommend a Bi-Metal hole saw be used with a slow speed high torque drill.
1. All dimensions in millimetres unless otherwise stated.
2. Reinstatement to comply with the requirements of the NRSWA (subject to category).
3. All duct ends to be finished with a bell mouth where possible or finished 50mm from edge of interior wall.
4. All materials and workmanship to be in accordance with the specification.
5. Virgin Media supplied Cubis Footway covers and frames are class B125 to BSEN124 and Saint Gobain carriageway are class D400.
6. Concrete base and surround to be low water/cement ratio (low slump) Grade C40/20 for non aggressive soil conditions, for other soil conditions see Eurocode 2 part 1 sections 3 and 6 recommendations and obtain Virgin Media Delivery Engineers approval prior to construction. The mix design shall take full account of ground sulphate content conditions and comply with table 6.1 of Eurocode 2.
7. Concrete base slab to be placed, tamped and surface finished. Cubis chamber rings to be installed and levelled to suit.
8. Duct entries vary in number, grouping and orientation. Duct entry positions should be agreed with the Virgin Media Build Engineer prior to construction.
9. Draw lines shall be secured inside chambers by tying off to a suitable fixture or by tying to an approved batten.
10. Standard backfill requirements shall be type 1 in all circumstances unless further support is required then concrete backfill is recommended. For CW class chambers in a D400 category setting then concrete backfill is required.
11. For full build guidelines please refer to the Cubis Installation guide found on their website.

For the Fortress assembly, all core locations must be located as close to the centre of any given ring to maintain structural integrity of the frame.

Ducts must not enter within 50mm of a corner section.

Virgin Media approved and supplied chamber lid to B125 for Footway applications and D400 for carriageway applications.

For the Fortress assembly, all core locations must be located as close to the centre of any given ring to maintain structural integrity of the frame.

Ducts must not enter within 50mm of a corner section.
1. All dimensions in millimetres unless otherwise stated.
2. Reinstatement to comply with the requirements of the NRSWA (subject to category).
3. All duct ends to be finished with a bell mouth where possible or finished 50mm from edge of interior wall.
4. All materials and workmanship to be in accordance with the specification.
5. Virgin Media supplied Cubis Footway covers and frames are class B125 to BSEN124 and Saint Gobain carriageway are class D400.
6. Concrete base and surround to be low water/cement ratio (low slump) Grade C40/20 for non aggressive soil conditions, for other soil conditions see Eurocode 2 part 1 sections 3 and 6 recommendations and obtain Virgin Media Delivery Engineers approval prior to construction. The mix design shall take full account of ground sulphate content conditions and comply with table 6.1 of Eurocode 2.
7. Concrete base slab to be placed, tamped and surface finished. Cubis chamber rings to be installed and levelled to suit.
8. Duct entries vary in number, grouping and orientation. Duct entry positions should be agreed with the Virgin Media Build Engineer prior to construction.
9. Draw lines shall be secured inside chambers by tying off to a suitable fixture or by tying to an approved batten.
10. Standard backfill requirements shall be type 1 in all circumstances unless further support is required then concrete backfill is recommended. For CW class chambers in a D400 category setting then concrete backfill is required.
11. For full build guidelines please refer to the Cubis Installation guide found on their website.

Please Note - Duct entry holes in Ultima assemblies must be core drilled. Cubis recommend a Bi-Metal hole saw be used with a slow speed high torque drill.

Ultima® Chamber Dimensions

FW6 – 1310 x 610 x 806 Inside, 1408 x 708 x 806 Outside
FW10 – 2320 x 740 x 812 Inside, 2446 x 866 x 812 Outside
CW2 – 1200 x 675 x 900 Inside, 1326 x 801 x 900 Outside
CW3 – 1800 x 675 x 910 Inside, 1926 x 801 x 910 Outside

For the Ultima assembly, all core locations must be located as close to the centre of any given ring to maintain structural integrity of the frame.
1. All dimensions in millimetres unless otherwise stated.
2. All concrete to be BS8110 (EN1992) grade C20/40.
3. Concrete to be fully compacted.
4. Trim ducts flush with inside face of wall.
5. Cover and frame approved for B125 duty in Footway Scenarios and D400 in Carriageway.
6. Frame to have bolting lugs and be bolted down on bedding with cover in place, to ensure there is no rocking.
7. Capped lead outs to be provided as directed by the Virgin Media Delivery Engineer.
8. Chamber depth to be increased with 450 cover at road crossings and decreased for 1 no. duct layer.
9. Bricks to be class B Engineering bricks to BSEN771-1.
10. Chamber for 2 no. to 4 no. ducts in any direction and for 1 no. duct layer on straight through main cable route.

Chamber Openings and Build Types

**FW2** – 730 x 460 x 465 - Single Skin
**FW3** – 750 x 600 x 600 - Single Skin
**FW4** – 915 x 445 x 600 - Single Skin
**FW6** – 1310 x 610 x 750 - Double Skin
**FW10** – 2320 x 740 x 750 - Double Skin
**CW1** – 600 x 600 x 900 - Double Skin
**CW2** – 1200 x 675 x 900 - Double Skin
**CW3** – 1800 x 675 x 900 - Double Skin

250 Min for all chamber sizes

100 Min for all chamber sizes
Care must be given to the location of Virgin Media and Openreach ETB’s, this is even more important if your site is Openreach Fibre. A distance of at least 350mm between core locations for external cabling must be provided to allow adequate space for ETB’s to be fitted.

uPVC duct must be cut back before pulling cables externally, this prevents damage to cable while trying to tidy at 2nd fix.

External Termination Box (ETB)
All internal cabling to be coiled in this assembly.

Termination Box (Toby) to be level with the finished ground and a gap of at least 100mm to be left between the box and exterior wall.

Terminating a Single Way Duct Configuration at the Last Swept Tee

1. All dimensions in Millimetres unless otherwise stated.
2. Reinstatement to comply with requirements of the NRSWA (subject to category).
3. The installed assembly complies with BSEN124 and should only be installed in line with these guidelines. Any deviation from this install example must be highlighted with the local Virgin Media Delivery Engineer.

Important Note: If internal wiring is complete before external civils infrastructure is deployed the Termination Box (Toby) should be located immediately opposite the Internal Back-box or below the External Termination Box (ETB). If the external civils infrastructure is complete first then consideration must be given to the placement of the Toby compared to the cable input point at the property.
1. All measurements in millimetres unless otherwise stated.
2. Utilities measurements are distance from outer footway limit with the carriageway.
3. All measurements are minimum depth of cover requirements.
4. Duct/cable routes are indicative and drawn on the basis that all utilities lead straight to the property and do not terminate in the footway with Cable TV being the exception.
6. Please refer to VMTD0017d for full details of duct alignment and backfill requirements in a service trench.

Remember, Virgin Media Duct Coverage is...
Footway – 250mm (260mm Scotland)
Carriageway – 450mm

This example shows how staging utilities in a new footpath using the minimum standards from the Streetworks UK standards, you can achieve 5 utilities in less than a 2m footway (1.7m example shown), with space for 450/750mm cover footway boxes. This would allow the potential addition of a third Telecoms supplier (below the Openreach minimum depth) while still maintaining all standard depths for all critical utilities.

1. All measurements in millimetres unless otherwise stated.
2. Utilities measurements are distance from outer footway limit with the carriageway.
3. All measurements are minimum depth of cover requirements.
4. Duct/cable routes are indicative and drawn on the basis that all utilities lead straight to the property and do not terminate in the footway with Cable TV being the exception.
6. Please refer to VMTD0017d for full details of duct alignment and backfill requirements in a service trench.
**1. All measurements in millimetres unless otherwise stated.**

**2. Reinstatement to comply with the requirements of the NRSWA (subject to category)**

**3. All duct to be Green, supplied and approved by Virgin Media.**

**4. Swept Tee’s must always be installed on the uppermost duct line closest to the property.**

**5. A minimum clearance of 25mm must be left between all Duct routes and edge of trench and base of backfill. Any deviation must be approved in advance with the Virgin Media Delivery Engineer.**

**Preferred Options for Duct Configuration in Footway and Highway Situations**

All even numbers of duct in the same trench will be laid in pairs stacked on top of each other, with the exception of some special engineering difficulties which may require a different duct arrangement (to be agreed in advance with the Virgin Media Engineer).

Odd number duct configurations will have the single duct laid nearest the surface equispaced between the two lower ducts.

**Measurements relate to standard depths/widths if trench is made up to the specification highlighted here with a 25mm bedding around ducts on all sides.**

**Typical Layout of Ducts in Trenches**
1. All measurements in millimetres.
2. This guide is representative of the cabinets utilised across the Virgin Media network, the description and number of homes served is indicative only to give an impression of what cabinets to expect based on the size of your site. Full confirmation of the cabinet types and positioning will be agreed at the planning stage.
3. All cabinets are supplied with the standard Virgin Media cabinet colour of Goose Grey.
4. Cabinets manufactured and supplied to Virgin Media by Eurocraft Enclosures.

Please consider the location of all cabinets we propose on site, the primary cabinets feeding your development will more than likely be placed off the site entrance so bear this in mind when designing your show area or any special features.

Choosing a Cabinet Location - Cabinets are best sited against property gable ends or against retaining or boundary walls where they are both protected from vehicle damage and as un-obtrusive as visibly possible to your site.

We will not deploy a cabinet on your new build site until adequate lines and levels as well as protection are available for the unit. Cabinets deployed without barrier protection are subject to damage from construction traffic and we will not take risks when deploying our network infrastructure.

Power Requirements - The HP1 Nodal cabinet is the parent cabinet serving the on site distribution cabinets with digital services. No customer drop cable will terminate in this cabinet. If the cabinet can be deployed within your new site boundary, we may ask you for an LV power feed for the primary cabinet from your on site power distributer, please take this into consideration when planning power requirements for your site. We will make any required applications and pay any fee’s for power connections directly with your site supplier.

There may be a delay with deployment of service if our Primary Fibre cabinet has to be deployed off site due to time restrictions in receiving power quotes from regional DNO’s and potential restrictions from local authorities.

Cabinet Colour - All of our cabinets by default will be supplied with colour reference 00 A 05 from the BS4800/5252 range – Titled Goose Grey.

Root Base Formation - All Virgin Media cabinets are supplied and installed by our own contractors. We will work with your site teams to make sure we have access to build the root base and adjoining chambers to tie into your on site network build. If your groundworker has the ability to build and form our root base and duct then we will supply technical documents directly to specify the requirements for any given cabinet type.

HFC Distribution Cabinets

VMDD3(i) – 900 W x 940 H x 400 D Distribution Cabinet – 1 per 60 homes max.
VMDD1(i) – 535 W x 985 H x 315 D Distribution/Amplifier Cabinet 1 per 30 homes max.
VMDD1/HP1 – 1200 W x 1200 H x 400 D Distribution and Nodal Cabinets 1 per 60 homes max.
VMDD2 – 1500 W x 1200 H x 400 D Distribution and Nodal Cabinets 1 per 60 homes max.
VMDD1 Example
VMDD2 Example
VMDD1 Example
1. All measurements in millimetres.
2. This guide is representative of the cabinets utilised across the Virgin Media network, the description and number of homes served is indicative only to give an impression of what cabinets to expect based on the size of your site. Full confirmation of the cabinet types and positioning will be agreed at the planning stage.
3. All cabinets are supplied with the standard Virgin Media cabinet colour of Goose Grey.
4. Cabinets manufactured and supplied to Virgin Media by Eurocraft Enclosures.
5. Please refer to VMTD0031a for full details on the other cabinets in the VM range in HFC build areas.

**Power Requirements** - The VHUB will always be co-located with a smaller SD1 power cabinet. Due to the size and importance of these cabinets, a lot of planning consideration will be taken when locating these to serve a new build site. Normally these will be off site and out of visible range of your new properties.

If the cabinet can be deployed within your new site boundary, we may ask you for an LV power feed for the primary cabinet from your on site power distributor, please take this into consideration when planning power requirements for your site.

There may be a delay with deployment of service if our Primary Fibre cabinet has to be deployed off site due to time restrictions in receiving power quotes from regional DNO’s and potential restrictions from local authorities.

- POP-A – 1124 W x 1495 H x 400 D
  Node Cabinet L3
  When used as Inverted Node – Up to 256 Homes (depending on local capacity).
  When used as FTTP POP-A – 500 homes on a single chassis, 1000 homes on dual chassis.

- VMVH1 (VHUB) – 1800 W x 1700 H x 650 D
  Nodal Cabinet L2.5 (Virtual Hub)
  1 per 3000 Homes Approx.
  This is not a distribution cabinet but utilised as the parent cabinet for on site cabinets/services. Customer drop cables will not lead to this cabinet.

- VMSD1i – 535 W x 985 H x 330 D
  Distribution Cabinet L4
  1 per 48 Homes (when used as L4)
  1 per 512 Homes (When used as L3)
  Also used as a power pedestal for VHUB.

- VMDD3i – 900 W x 940 H x 400 D
  Distribution Cabinet L4
  1 per 96 Homes (When used as L4)
  1 per 1024 Homes (When used as a dual L3)
Virgin Media utilises the Eurocraft Technologies range of cabinets for distribution of our above ground network in the UK. We understand that having more street apparatus on your sites can sometimes be a headache...but these cabinets are very important and we want to show you why, as well as the benefit these can bring to your new development.

The UK cable network has been constructed since the 1970's in some areas and the way we build the network has morphed over time as we learn how best to maintain the network from the varying UK weather. In areas where we had our network primarily underground we have discovered issues with silt build up, ant infestations and flooding amongst some of the many issues we have to deal with. Some of these issues can have a detrimental impact on the performance of our network and are incredibly difficult to counteract. Street cabinets help us provide the high level of service our customers expect as well as allow us to build for the future technologies of 5G and beyond.

In our HFC (Hybrid Fibre Coaxial) network, we utilise Amplifiers to extend the range of our network as well as provide distribution to cabinets serving customer connections. These are vital components in our network and we need to keep them cool in the summer (and warm in the winter!). Our cabinets are designed to regulate temperature whilst providing protection and security for our network...as well as peace of mind to our customers that our network is safe and secure.

Where we deploy our Fibre To The Property network, we still require distribution cabinets to manage the customer connection point (up to 50 customers per cabinet). These cabinets are limited to one of our smaller models to ensure we don’t require lot of space on site.

The Future... We are currently trialing EV Charging points alongside tech startup Connected Kerb© which utilise the existing infrastructure that our street furniture benefits from. This could potentially allow the roll out of nationwide EV charging points much easier with less disruption and civils works than installing brand new feeder pillars. The future of EV Charging is growing rapidly, especially in dense urban areas where the future requirement for Electric Vehicle charging coupled with ultrafast connectivity makes Virgin Media a vital part of that future.

Did you know? Ants are attracted to the heat emitted from our Amplifiers in underground chambers, they tend to swarm around the Amplifier housing causing heat build up and eventual network outages. Bringing these amplifiers out of the ground prevents this and allows our network to run at peak performance.

Our distribution cabinets make it easier for us to connect customers and maintain our network. Requiring access to footway (or carriageway chambers) constantly on a new site can be obstructive to local residents and cause traffic issues. Ideally, we will plan to have our cabinets located near parking bays so they are easy to access as well as away from busy junctions and main roads.

We will always work with you to ensure that cabinets are sited in the best locations to allow us access as well as keeping the aesthetic of your development. We are keen to make sure that you don’t have issues with future adoption of your highways as well so it is important you discuss any requirements for cabinet locations at the earliest opportunity.

Remember – We don’t just provide a Broadband service, we are the second largest Pay TV and one of the largest Fixed line Telephony operators in the UK. Our customers rely on us not just for their home and business Internet needs, but also their primary TV and phone services as well... all delivered through the same cable and cabinets.

Where are Street Cabinets Required?

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PVC-U Duct items from Emtelle, supplied by Virgin Media for your new site...

- Manufactured from virgin PVC-U polymer for 100% reliable performance.
- Solid wall construction, capable of being back filled with “as dug” materials where appropriate and not be affected by sharp stone impingement.
- Strong, flexible and impact resistant yet lightweight.
- Flexible and easy to work with, even at well below zero temperature.
- Long life resistance to fatigue and resistant to many common liquids and chemicals.
- All duct manufacturers to BS EN 6386 Industry Standard (40KN Class).

54/96mm Duct. Available in 3m (54mm) and 4m (96mm) lengths, used in all duct configurations requiring 96mm duct runs.

54/96mm Slow Bend. Used to ease main ducting around bends and obstacles. Also used to extend the main 96mm duct towards a building when terminating a Swept Tee in an MDU.

54/96mm 90° Bend. Used primarily in cabinet root base construction. These bends should not be utilised for moving duct around obstacles due to the limitation on cable bending radius. This piece can be used when bringing a duct into an MDU where trunk cable is used and not drop cable.

64 to 54mm Swept Tee. A standard lateral connection size where 54mm duct will feed a property from a 96mm main line duct.

Marker tape and draw rope supplied by Virgin Media. Please ensure that both are used as advised by your local Virgin Media site contact.

Slip Collar/Coupler. Available for both 96mm and 54mm duct connections, also available as a 96/54mm reducer.

End Cap. Available in 54mm (Yellow) and 96mm (Red).

Split Duct Kits are available to repair damaged sections of existing duct or where its too difficult to replace an damaged section of duct. Please liaise with your local Virgin Media contact for best practice use.

Termination boxes must be utilised for end of swept tee routes. Each property must be fitted with an appropriate box.

To prevent wastage of materials and unnecessary waste, we recommend the use of suitable deburring and chamfer tools when cutting duct. This will allow you to use as much duct as possible and reduce plastic waste on your site. Recommended tools are available directly from Emtelle or your local wholesale supplier.

Need Duct Items for your site?

Contact your local Virgin Media representative to arrange a duct delivery direct to your holding yard. Please allow 7-10 days for delivery so try and give us as much notice as possible.

1. All measurements in millimetres unless otherwise stated.

2. This guide is representative of the duct items utilised and provided by Virgin Media. Where the duct supplied does not meet your site requirements or you have special engineering requirements then please liaise with your Virgin Media site contact to discuss any issues.

3. All duct is manufactured by Emtelle and provided in Green, this is to differentiate our network from other operators and is part of the Streetworks UK standards set out for utilities colouring and usage. Virgin Media supplied duct is also stamped with property of Virgin Media.

4. Do not use our duct to satisfy the build requirements of other operators, you will be asked to remove any duct used for purposes not within our network plan. On the contrary, do not use other operator duct to complete our on site network build either.

5. Deliveries will be made by the Virgin Media fleet on either curtain sided trucks or read load LGVs. Moffet Mounty fork lift vehicles are available for larger deliveries, please advise in advance if you do not have unloading facilities for pallets on your site prior to your order being placed.

6. If you have an overstock of duct items at the end of your project, get in touch with your local Virgin Media contact to arrange uplift of these materials.

**New Build Civils Duct Items**

- **Duct**
  - 54mm – 3m Lengths – VM SKU 10007586
  - 96mm – 4m Lengths – VM SKU 10007572

- **Bends/Collars**
  - 54mm – 11.25° Bend (350mm radius) – VM SKU 10007590
  - 54mm – 22.5° Bend (300mm radius) – VM SKU 10007589
  - 54mm – 45° Bend (150mm radius) – VM SKU 10007588
  - 54mm – 90° Bend (200mm radius) – VM SKU 10007587
  - 96mm – 11.25° Bend (700mm radius) – VM SKU 10007576
  - 96mm – 22.5° Bend (700mm radius) – VM SKU 10007575
  - 96mm – 45° Bend (500mm radius) – VM SKU 10007574
  - 96mm – 90° Bend (427mm radius) – VM SKU 10007573
  - 54mm – Slip Collar/Coupler – VM SKU 10007591
  - 96mm – Slip Collar/Coupler – VM SKU 10007578
  - 54mm – Collar/Coupler – VM SKU 10007577
  - 96mm – Reducer (96mm to 54mm) – VM SKU 10007581

- **Split Duct**
  - 96mm – Duct Inserts (for use with split duct repair kit) – VM SKU 10007585
  - 96mm – Duct Repair Kit 3m Length – VM SKU 10007584
  - Duct repair kit consists of:
    - 2no. Split collar inserts, 6no. Duct liners, 4no. Cables ties
    - 96mm – Split Swept Tee (96mm to 54mm) – VM SKU 10007580

- **Swept Tee’s**
  - 54mm to 54mm Swept Tee – VM SKU 10007592
  - 96mm to 54mm Swept Tee – VM SKU 10007579
  - 96mm to 96mm Swept Tee/Y Branch – VM SKU 10007582
  - Footway Termination Box (New FTTP Version) – VM SKU 10011047
  - Footway Termination Box (When 10011047 cant be used) – VM SKU 10007594
  - 54mm Duct Cap – VM SKU 10007593
  - 96mm Duct Cap – VM SKU 10007583

- **Miscellaneous**
  - Draw Rope 500m, 6mm Diameter – VM SKU 6020490
  - Fibre Optic Marker Tape 365m – VM SKU 10007596

Contact your local Virgin Media representative to arrange a duct delivery direct to your holding yard. Please allow 7-10 days for delivery so try and give us as much notice as possible.

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3. All duct is manufactured by Emtelle and provided in Green, this is to differentiate our network from other operators and is part of the Streetworks UK standards set out for utilities colouring and usage. Virgin Media supplied duct is also stamped with property of Virgin Media.

4. Do not use our duct to satisfy the build requirements of other operators, you will be asked to remove any duct used for purposes not within our network plan. On the contrary, do not use other operator duct to complete our on site network build either.

5. Deliveries will be made by the Virgin Media fleet on either curtain sided trucks or read load LGVs. Moffet Mounty fork lift vehicles are available for larger deliveries, please advise in advance if you do not have unloading facilities for pallets on your site prior to your order being placed.

6. If you have an overstock of duct items at the end of your project, get in touch with your local Virgin Media contact to arrange uplift of these materials.
Virgin Media Digital Voice

Our new phone platform allows us to offer traditional phone services without the need for copper wires into the home. Our current generation Hub 3 has phone ports on the back and allows customers to connect their usual landline phone and have all the same benefits of a fixed copper phone line.

External Termination Box (ETB)
All cables terminated back to this location with 150mm tails and labelled. Available in either White, Grey or Brown to suit your external build.

Connections
There is no requirement for fitting connectors to our cable by your electricians during the build phase, this is done by our installs team at the point of customer install. All we require is a 150mm tail coiled inside the back box ready for us to use.

Single Gang Blanking Plate
Single gang flush mounted wall boxes to contain a 150mm Coaxial tail. Euro Module faceplates can also be utilised for CATV locations if you have other media considerations in your property.

New Home Pre-Wire to Individual Points

- All cable and single/double gang blanking plates supplied by Virgin Media.
- A minimum of 2 Coaxial sockets (master bedroom and living room) per property. Further sockets can be agreed with local Virgin Media New Build teams.
- All cabling must be labelled at the termination box to highlight its destination.
- All sockets must be installed within 1m of a power outlet.
- Individual cable lengths should not exceed 30m, please seek advice before wiring if this isn’t possible.
- 150mm minimum tails to be left coiled in each back box.
- Cables must be separated from low voltage electrical cabling by at least 50mm. Our cable may only be installed adjacent to LV power cabling where LV cables are installed in a separate conduit or are of a mineral insulation or armoured construction.
- For guidance on LSZH cabling please refer to document VMTD0063.

RG6/RG59 Coaxial Cable
Triple shielded white Coaxial cable, supplied by Virgin Media and manufactured by Amphenol Broadband Solutions. Drums are 305m in length and safe for a 1 man lift.

Media Plate (Optional)
Coaxial and copper cables to be coiled behind lower section of media plate. Lower panel to be reserved for Virgin Media use. Please refer to document VMTD0048 for more details.

Euro Modules
If Euro Module faceplates are to be utilised then please consider at least 2 Euro Module slots per room for Virgin Media connectivity. Cables to be coiled with a 150mm tail and faceplate to be finished with blanking Euro modules.

Virgin Media Digital Voice

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- All cable supplied by Virgin Media.
- A minimum of 2 Coaxial sockets (master bedroom and living room) per property. Further sockets can be agreed with local Virgin Media New Build teams.
- All cabling must be labelled in the ITB to highlight its destination.
- All CATV sockets must be installed within 1m of a power outlet.
- Individual cable lengths should not exceed 30m, please seek advice before wiring if this isn’t possible.
- 150mm minimum tails to be left coiled in each back box.
- Cables must be separated from low voltage electrical cabling by at least 50mm. Our cable may only be installed adjacent to LV power cabling where LV cables are installed in a separate conduit or are of a mineral insulation or armoured construction.
- For guidance on LSZH cabling please refer to document VMTD0063.

Connections

There is no requirement for fitting connectors to our cable by your electricians during the build phase, this is done by our installs team at the point of customer install. All we require is a 150mm tail coiled inside the back box ready for us to use.

External Termination Box (ETB)

All cables terminated back to this location with 150mm tails and labelled. Available in either White, Grey or Brown to suit your external build.

Media Plate (Optional)

Coaxial and copper cables to be coiled behind lower section of media plate. Lower panel to be reserved for Virgin Media use. Please refer to document VMTD0048 for more details.

RG6/RG59 Coaxial Cable

Triple shielded white Coaxial cable, supplied by Virgin Media and manufactured by Amphenol Broadband Solutions. Drums are 305m in length and safe for a 1 man lift.

Single Gang Blanking Plate or Single Euro Module Wall Plate

Single gang flush mounted wall boxes to contain a 150mm Coaxial tail. Either euro module angled connector or branded faceplate supplied to suit your needs.

Example Comm’s or meter Cupboard

Internal Termination Box (ITB)

PVC termination box supplied by Virgin Media. All internal wiring to be terminated back to this location. This must be located next to a dual 13A power socket to allow mains power for our equipment.

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Triple shielded white Coaxial cable, supplied by Virgin Media and manufactured by Amphenol Broadband Solutions. Drums are 305m in length and safe for a 1 man lift.

Single Gang Blanking Plate or Single Euro Module Wall Plate

Single gang flush mounted wall boxes to contain a 150mm Coaxial tail. Either euro module angled connector or branded faceplate supplied to suit your needs.

Example Comm’s or meter Cupboard

Internal Termination Box (ITB)

PVC termination box supplied by Virgin Media. All internal wiring to be terminated back to this location. This must be located next to a dual 13A power socket to allow mains power for our equipment.

Small (Krone 220A) - 170 x 120 x 80 HWD
Medium (Krone 251A) - 210 x 160 x 90 HWD
Large (Krone250/7) - 236 x 176 x 98 HWD
Standard HDU (Pictured) – 140 x 140 x 50 HWD

New Home Pre-Wire to an Internal Termination Box
This is intended as a guide for fitting Euro Module adapters and faceplates. Virgin Media don’t supply these consumable items apart from our own branded Euro Module.

The DETA EuroModule compliant face plates are an easy fit option for any new build home. Available in a selection of finishes from White to Satin and Brushed Chrome finishes you will find a version to suit the finish of your new build home.

Virgin Media recommends the use of the DETA 1975 series of lounge plates which incorporate fixed 13A power sockets and an option for up to 6 module spaces for expansion.

We advise that at least 2 EuroModule sockets are retained for use by Virgin Media in the lower part of the media plate and if possible reserve the entire lower slot for our use.

Example EuroModules...

Virgin Media Euro Module with In Line Isolator
Our branded Euro module outlet allows you to have a single fixed master Coaxial socket in a Euro module faceplate without the need for additional wall-boxes. These units are supplied by Virgin Media, please specify in advance if you require these.

RJ45 (Ethernet) EuroModule
Ideal if you are pre-wiring your house with Ethernet sockets back to a patch panel in a comms or electrical cupboard.

Satellite/Terrestrial EuroModule
Available in varying colours, these 50x50mm module slots allow twin satellite cable connections as well as options for Terrestrial TV and DAB connectivity from a fixed aerial.

HDMI EuroModule
A pass through face plate allowing you to have a fixed HDMI point, very useful for prewiring to a wall mounted TV location. If using this module then please ensure this is used in the upper row of the faceplate.

HDMI modules are best connected in the upper plate or in a standalone back-box next to your media plate if you are also deploying a dual satellite feed. You might struggle to fit an HDMI cable plus 2 coaxial feeds in one row.

RJ11 (Telephone) EuroModule
This module allows the connection of a single phone socket as an extension. With our Digital Voice product, these extension sockets can still be interconnected to our service as long as they connect back to a master NTE. Please discuss your on site Telephone requirements with your Virgin Media Site Engineer before deploying any final wiring.

Satellite/Terrestrial EuroModule
Available in varying colours, these 50x50mm module slots allow twin satellite cable connections as well as options for Terrestrial TV and DAB connectivity from a fixed aerial.

Virgin Media Euro Module with In Line Isolator
Our branded Euro module outlet allows you to have a single fixed master Coaxial socket in a Euro module faceplate without the need for additional wall-boxes. These units are supplied by Virgin Media, please specify in advance if you require these.

This model of media plate allows 3 modules per row, we require at least 2 module spaces in the lower row which we will supply brush plates for if required.

If you are connecting a phone extension through your media plate then we request you connect this in the lower row as well and punch down to a suitable RJ11 module. The 1pr extension cable should then be run back to the master phone socket location.

We do not authorise the use of Euro Modules as master phone sockets, please check with your Virgin Media contact to confirm phone wiring options in your development.

HDMI modules are best connected in the upper plate or in a standalone back-box next to your media plate if you are also deploying a dual satellite feed. You might struggle to fit an HDMI cable plus 2 coaxial feeds in one row.

Example EuroModules...
1. All dimensions in millimetres unless otherwise stated.
2. All faceplates for both single and double gang sockets are supplied by Virgin Media, currently we only offer standard white PVC. If you utilise your own faceplates we can supply transparent Virgin Media logo stickers to identify the faceplates.
3. When using Euro Modules, all spaces within the faceplate must be filled with blanking plates to complete the finish and protect the faceplate/socket.
4. No connectivity is required for our Euro Module insert until the customer is installed. All that is required is the tail of the adapter top be coiled inside the backbox alongside the incoming pre fitted coaxial cable.
5. Sockets are best installed at floor level, please avoid installing high level sockets especially when wall mounting a TV. Remember that a set top box is required for premium satellite and cable connections so care must be given to the location of incoming cable sockets.

Virgin Media Euro Module with In Line Isolator
Our branded Euro module outlet allows you to have a single fixed master Coaxial socket in a Euro module faceplate without the need for additional wall-boxes. These units are supplied by Virgin Media, please specify in advance if you require these.

When using Media plates (see also drawing VMTD0048a) then please ensure that Virgin Media wiring is segregated from other operators. This ensures enough space within the back box to work the cabling and insert any splitters/isolators.

All Virgin Media sockets should be finished either with a blanking plate (supplied by Virgin Media) or if using Euro Modules then finished with branded Euro module inserts and blanking plates.

If using a single gang standalone socket for Virgin Media, please ensure that only a single cable feeds to/from this backbox. If the socket is being used as a junction or splitter then please utilise a double gang backbox. It creates a better finish if you utilise Euro Module faceplates for double sockets especially.

When using our branded Euro module plates please ensure that Virgin Media wiring is segregated from other operators. This ensures enough space within the back box to work the cabling and insert any splitters/isolators.

RG6 Coaxial Cable
(Supplied by Virgin Media)

Other TV and Data Cabling

VMTD0048b

Faceplates and Euro Modules

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It is becoming more common (not just in high specification properties) that in home distribution systems are offered to customers as a selling point. These systems allow the integration and distribution of multiple TV signals around the property on a pre wired Ethernet circuit. Virgin Media does not directly support this but this example shows how equipment from Wyrestorm can be used in such a manner with Virgin TV services.

This setup is an example of a simple video distribution system using Wyrestorm EX-35 equipment. This is not an exhaustive example and other scenarios including audio control and home automation are also possible. This guide is designed to show how the Virgin TV and Broadband services can interact with third party equipment and transmit TV signals over CAT5e or CAT6 around the home.

This product is not supplied by Virgin Media directly, please contact your local electrical or home entertainment partner for full details and prices.

Although Virgin Media are happy to support this type of setup in New Build units, we do not supply technical advice on setup beyond our own equipment. Please contact the manufacturer for any technical support.

Please refer to document VMTD0068b for further detail on a more advanced multi zone setup, available on request.

This system allows your standard TiVo remote control to work through the IR extender, allowing your TiVo box to be remotely controlled from a centralised location.

Ethernet cable can transmit unamplified HD signals up to 70m and 4K signals up to 35m on a single CAT5e or CAT6 cable. Longer distances will require further amplification.

In Home Distribution System (Single Source/Zone)
- All cable supplied by Virgin Media.
- A minimum of 2 Coaxial sockets (master bedroom and living room) per property. Further sockets can be agreed with local Virgin Media New Build teams.
- All cabling must be labelled at the termination box to highlight its destination.
- All CATV sockets must be installed within 1m of a power outlet.
- Individual cable lengths should not exceed 30m, please seek advice before wiring if this isn’t possible.
- 150mm minimum tails to be left coiled in each back box.
- Cables must be separated from low voltage electrical cabling by at least 50mm. Our cable may only be installed adjacent to LV power cabling where LV cables are installed in a separate conduit or are of a mineral insulation or armoured construction.
- For guidance on LSZH cabling please refer to document VMTD0063.

**Virgin Media Digital Voice**

Our new phone platform allows us to offer traditional phone services without the need for copper wires into the home. Our current generation Hub 3 has phone ports on the back and allows customers to connect their usual landline phone and have all the same benefits of a fixed copper phone line.

**Connections**

There is no requirement for fitting connectors to our cable by your electricians during the build phase, this is done by our installs team at the point of customer install. All we require is a 150mm tail coiled inside the back box ready for us to use.

**RG6/RG59 Coaxial Cable**

Triple shielded white Coaxial cable, supplied by Virgin Media and manufactured by Amphenol Broadband Solutions. Drums are 305m in length and safe for a 1 man lift.

**Drop Cable/Tubing**

Triple shielded white Coaxial cable (or blown fibre tubing if FTTP) from central point in MDU run back to central distribution point in building (i.e. Lockbox)

**Internal Termination Box (ITB)**

PVC termination box supplied by Virgin Media. All internal wiring to be terminated back to this location. This must be located next to a dual 13A power socket to allow mains power for our equipment.

- Small (Krone 220A) - 170 x 120 x 80 HWD
- Medium (Krone 251A) - 210 x 160 x 90 HWD
- Large (Krone 250/7) - 236 x 176 x 98 HWD
- Standard HDU (Pictured Above) – 140 x 140 x 50 HWD
- FTTP (Pictured Top) – 195 x 275 x 65 HWD

**Single Gang Blanking Plate or Single Euro Module Wall Plate**

Single gang flush mounted wall boxes to contain a 150mm Coaxial tail. Either euro module angled connector or branded faceplate supplied to suit your needs.

**FTTP ITB Example**

**HDU Example**

**Connections**

There is no requirement for fitting connectors to our cable by your electricians during the build phase, this is done by our installs team at the point of customer install. All we require is a 150mm tail coiled inside the back box ready for us to use.

**RG6/RG59 Coaxial Cable**

Triple shielded white Coaxial cable, supplied by Virgin Media and manufactured by Amphenol Broadband Solutions. Drums are 305m in length and safe for a 1 man lift.

**Drop Cable/Tubing**

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**FTTP ITB Example**

**HDU Example**
Wall Mounted Distribution Boxes
We supply a range of plastic (FTTP) and powder coated galvanised steel distribution boxes (HFC) for terminating drop cables in an MDU. Available in three sizes depending upon the number of units being supplied:

Small HFC – 400 x 300 x 210 HWD – 16 Units
Medium HFC – 700 x 500 x 260 HWD – 32 Units
Large HFC – 1000 x 800 x 300 HWD – 64 Units

Small FTTP – 300 x 245 HW – 1-16 Units
Medium FTTP – 368 x 275 HW – 17-24 Units
Large FTTP – 500 x 375 – 25-48 Units

Node Cabinet FTTP – 600 x 440 x 220 HWD
This guide is a representation of the equipment supplied and utilised by Virgin Media for internal distribution boxes within MDU builds.

Actual products may differ depending on manufacturer specification, please confirm any specific requirements with your Virgin Media site contact if you have any questions or concerns.

All dimensions in millimetres unless otherwise stated.

Wall Mounted Distribution Boxes

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**Eldon Enclosures**
- **Small HFC** – 400 x 300 x 210 HWD – 16 Units
- **Medium HFC** – 700 x 500 x 260 HWD – 32 Units
- **Large HFC** – 1000 x 800 x 300 HWD – 64 Units

**Hexatronic Enclosures**
- **Small FTTP** – 300 x 245 x 45 HWD – 1-16 Units
- **Medium FTTP** – 368 x 275 x 114 HWD – 17-24 Units
- **Large FTTP** – 500 x 375 x 182 HWD – 25-48 Units

**Node Cabinet FTTP** – 600 x 440 x 220 HWD

For our primary node cabinet in large FTTP builds, we utilise the Hexatronic Fibre Splicing Cabinet – NCD-518-800. This cabinet is designed to feed 12f tubes to each distribution box around the building and act as the primary splice location for the main external fibre into the building. Once fitted and fully connectorised, we require access only for maintenance.

For our traditional build areas (HFC) we supply powder coated cabinets from Eldon Enclosures in the three sizes listed in the table to the right. These mild steel enclosures are IP66 rated for water/dust ingress and suitable to contain the active powered devices contained within.

We utilise a 7mm OD (4mm ID) internal tubing for connection between boxes on site. This is usually white and all materials are supplied by Virgin Media.

All of our approved wall boxes are a minimum IP54 rated against particles and water ingress for internal domestic use. Our powder coated cabinet range is IP66 rated as it needs to protect active line powered equipment.

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26
1. This guide is representative of the Virgin Media network build at a high level, some local variances may apply in distances and cabinet types.

2. Images of equipment are subject to change on delivery and are for illustrative purposes only.

3. Currently Virgin Media customers can choose a variation of broadband products ranging from 50Mbps to 350Mbps.

4. Broadcast TV services are delivered by Virgin Media and supplemented by additional services like YouTube (available in HD and 4K) and Netflix (available in HD and 4K).

Virgin Media uses compression RG6 connectors and coaxial cables within the property. All connectors are fitted at the point of install by our teams and all cable installed in your properties must be supplied by Virgin Media.

Multi pair fibre cable from the nearest Virgin Media Hub to the serving L3 fibre cabinet.

High grade Coaxial cable (860 or 540) from the fibre node to the serving L4 distribution cabinet.

RG6 (or RG11 if over 100m) cable from the distribution cabinet directly to the property.

Regardless of the delivery method (FTTP or HFC), the Virgin Media network will deliver the same product range to every customer.

The power of our network... DOCSIS®3 powers our cables allowing us to deliver the fastest readily available speeds in the UK. It’s the magic in our cables.

The table compares HFC and FTTP speeds from different providers like Virgin Media, BT, Sky, and TalkTalk.
Currently our FTTP Omni box can support up to 4 internal points, each internal point will consist of a single RG6 coaxial cable terminated back to the Omni box. Power for the ONU is supplied through a power inserter connected to one cable from the primary point in the property, this is fitted at the point of customer install.

All internal RG6 cables will be terminated at the point of install by a Virgin Media install team, they can utilise up to a 4 way splitter for FTTP builds without requiring any further power.

Single Gang Blanking Plate or Single Euro Module Wall Plate

Single gang flush mounted wall boxes to contain a 150mm Coaxial tail. Either euro module angled connector or branded faceplate supplied to suit your needs.

External Termination Box (ETB)

Coax cables from internal locations coiled with a 150mm tail. The ETB in Fibre areas is larger than our usual model, please bear this in mind when positioning the entry point to your property. We recommend access to the side of the property rather than the front. The ETB measures 250x250x120.

• All cable supplied by Virgin Media.
• A minimum of 2 sockets (master bedroom and living room) per property. Further sockets can be agreed with local Virgin Media New Build teams up to a maximum of 4 without further power requirements.
• All cabling must be labelled in the ETB to highlight its destination.
• All sockets must be installed within 1m of a power outlet.
• Individual cable lengths should not exceed 30m, please seek advice before wiring if this isn’t possible.
• 150mm minimum tails to be left coiled in each back box.
• Cables must be separated from low voltage electrical cabling by at least 50mm. Our coaxial cable may only be installed adjacent to LV power cabling where LV cables are installed in a separate conduit or are of a mineral insulation or armoured construction.
• For future proofing of your property, we recommend CAT6 cable installation from each point back to the same location as the ETB.
• For guidance on LSZH cabling please refer to document VMTD0063.

Media Plate (Optional)

Coaxial cable to be coiled behind lower section of media plate. Lower panel to be reserved for Virgin Media use.

Virgin Media Digital Voice

Our new phone platform allows us to offer traditional phone services without the need for copper wires into the home. Our current generation Hub 3 has phone ports on the back and allows customers to connect their usual landline phone and have all the same benefits of a fixed copper phone line.

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...
This guide is designed to show at a high level what the different responsibilities for installing Virgin Media Duct and blown fibre on a New Build site. For developers, this process is quite similar to how we have asked you install our network for some time, albeit some of the materials such as Termination boxes will look slightly different. For FTTP, pre wiring the home now becomes a more important task and we ask you to consider future proofing your homes as much as possible. Please refer to VMTD0050 for details on pre wiring.

All internal wiring completed by your on-site electricians, with cables coiled externally inside a wall mounted termination box (ETB). This box will be the junction between the internal wiring and the external fibre drop cable.

Virgin Media on-site distribution cabinet and associated chamber constructed by our contractors. We will either tie into the duct you have already laid on site or if we build first then we leave duct poke outs for your ground-workers to connect to instead.

On site 96/54mm duct and footway termination boxes installed by your ground-worker to Virgin Media standards and as per the site design agreed in advance of the site starting.

Once all PVC duct is installed, Virgin Media will pre pull individual blown fibre micro tubes from the distribution cabinet to each external termination box. We currently utilise the QWKconnect solution from Emtelle for all fibre drop cabling.

All on site 96/54mm duct and footway termination boxes installed by your ground-worker to Virgin Media standards and as per the site design agreed in advance of the site starting.

Please Note – Equipment and tubing images are examples, actual equipment may vary.
In the EU, the fire testing and classification standards for construction products have been harmonised in European Standard EN 13501-1. The European Reaction to Fire classification system (Euro classes) is the EU common standard for assessing the qualities of building materials in the event of a fire. Euro classes arise from classification systems for ‘reaction to fire’ performance of construction products. All Virgin Media products are classified for use in their respective country and safe to use in LSZH required environments.

The Construction Products Regulation (CPR)

All power control and communication cables must conform with the CPR regulations from July 2017. This guide will refer only to communication cables.

Important Facts:

- CPR requires certain cables to certified in terms of their “reaction to fire” to does not specify where cables can be used.
- These cables are designated in terms of their EuroClass and marked or labelled with the CE mark.
- Optical fibres and bundles of optical fibres not installable without additional mechanical and environmental protection (bare fibre) are not within scope of the CPR.
- Cable management systems are not within scope of the CPR – This includes conduit, blown fibre micro-duct, trunking, ducting and tray work.
- Any cable installed within a building fall under the scope of the CPR and must be specified in terms of their Euroclass.

Products containing halogenated polymers (such as PVC and FEP) are inherently flame resistant. When burned, the materials generate free radicals that slow down the combustion process by reacting with high energy free radicals. One of the products of this process is halogen acid gas such as hydrochloric acid.

The varying types of PVC coating types and their halogenated material contents are...

- **PU** (polyurethane) <0.02
- **PE** (polyethylene) <0.02 – Virgin Media supplied LSZH cable, micro duct and TX10
- **CSPE** (chloro-sulfonated polyethylene) 13-26
- **CPE** (chlorinated polyethylene) 14-28
- **PVC** (polyvinyl chloride) 22-29 – Standard (non LSZH) Coaxial Cable Jacket
- **FEP** (fluorinated ethylene propylene) 62-78

<0.02 generally considered zero halogen

Requirements for High Rise Buildings in...

England, Wales and Northern Ireland – B-s3, d2
Scotland – A2-s1, d0

Smoke Opacity (S Rating)

Dropping Particles (D Rating)

Smoke Acidity (A Rating)

Please note that Scotland has higher standards for the use of internal cabling in high rise units. All Virgin Media supplied cabling is CPR compliant to the highest possible standards.
This guide is intended solely for guidance purposes and does not endorse the use of specific products or over rule any local fire protection regulations or restrictions. Please consider all aspects of fire protection within your building and ensure consultation with industry experts to make sure all regulations are adhered to.

Note - Remember that a product can be “fire resistant” but not Low Smoke... always confirm the specifications of the product you are deploying on site and use branded materials where possible. If Virgin Media is required to fire seal an entry point to a building as a retrospective work then a branded material suitable for the job will be used under guidance from a fire consultant.

ROCKWOOL® Firestop compound is the perfect product for use in fire rated walls and floors where cable penetration is required. It is a low maintenance product with 6 hours fire protection and no smoke emission.

ROCKWOOL® provides intumescent putty pads which can be used to fire seal sockets within dry walls that require an element of fire protection.

Forward planning of your fire protection requirements will mean choosing the correct method at the point of construction and prevent retrofitting of potentially unsuitable materials. It's easier to work with products like ablative coated batts at the point of first fix rather than trying to retrofit a solution that potentially won't meet the manufacturers install standards.

Notes:
- Virgin Media has consulted ROCKWOOL® on the best practice use of fire stopping and fire protection materials that are directly utilised in the deployment of cabling within a building and recommends the use of their rated range of products. This guide is intended to provide a point of reference and does not directly endorse a specific product or brand, please always consult a fire protection professional for guidance on protecting your building/project accordingly.
- Fire protection materials used incorrectly on site and identified by a Virgin Media employee will be reported to on site H&S as well as the HSE. There is no excuse for the misuse or incorrect install of fire protection.
- Virgin Media reserves the right to refuse access to our network infrastructure on site if guidelines are not met and our network will not be protected against potential fire ingress or assists in the spread of fire within a building.
- Where possible, we recommend the use of removable or malleable materials for fire protection within risers or partition walls so that future upgrade works or re-cabling exercises will not adversely damage the properties of installed fire protection.

ROCKWOOL® provides access too all of their technical documents and guidance both through its website and on its handy to use FirePro® App for smartphones. Full details can be found at www.rockwool.co.uk.
Filoform offers different products to suit your internal & external duct sealing requirements, from either re-enterable duct sealant systems to full fire protection. Full details on the product range available can be found on the Filoform website at www.filoform.co.uk.

Tel: 01189 886 873 – Fax: 01189 886 576 – E-Mail: info@filoform.co.uk

**GAS & WATER PROTECTION**

When sealing internal Virgin Media access cable ducts, either the ‘56 or 96mm’ ducts against water & gas then the recommended sealing method to use is FiloSeal+ from Filoform.

FiloSeal + is a universal product for sealing cables and pipes in ducts or bore holes. FiloSeal + is very easy to apply regardless of the type of cable scenario in the cable ducts as it uses a uniquely shaped foam piece which positions neatly around the cable or pipes in the duct. FiloSeal + uses our MD+ sealant which is easily applied from a 310ml tube using a skeleton gun. The unique design of the tri-flexible foam makes positioning and separation of the cables very simple while also providing cable separation and a backing for the MD+ to be applied on.

**FIRE RESISTANCE AND LARGE HEAVY CABLES**

If and when Fire Resistance is needed to seal a cable duct or large heavy cables, then all Virgin Media’s ducts should be sealed using FiloSeal+HD FIRE, which gives a minimum of 2 hours fire resistance in accordance with BS EN 1366-3:2009.

Duct sealing system FiloSeal+HD FIRE is a highly certified fire, gas and water sealing system for both ducts and transit frames. FiloSeal+HD FIRE provides a strong support system using our specially formulated material called Formite which builds up like a honeycomb structure.

FiloSeal+HD FIRE is suitable for sealing any cable configuration or pipes contained in one duct and also allows easy re-entry of the seal to add or remove cables or pipes as required.

**Part Numbers**

Gas and Water Protection – P/N 282580 (Ducts up to 125mm) – FiloSeal+

Fire Resistance and Large Heavy Cables – P/N 280070 (Ducts up to 110mm) – FiloSeal+HD FIRE

Other sizes available upon request from Filoform direct.
Whether you are building for private sale, public authority or private let... we have a solution to match your development. Built to Rent (B2R) is a fast growing market in the UK with 110k units currently either in planning or completed as of January 2019 (source BPF). With this in mind, Virgin Media can offer a B2R solution tailored to the needs of your portfolio or development with guaranteed superfast broadband and phone service for your clients, as well as attractive options to take further TV services or faster internet options.

We offer a dedicated online portal for your customers to register and engage with us, also providing a branded point of presence on site allowing you to promote the benefits of our superfast broadband and TV services. This example is how we worked with New Bailey on The Slate Yard development in Manchester to deliver a tailored approach to telecoms for their residents.

As times change, so do our solutions. We design and build systems ready for the future and our fibre rich network coupled with the option of Wi-Fi services through our Virgin Wi-Fi group can offer you an unparalleled level of service and quality to match your development. “Because we are business WiFi specialists, our network has been built with busy, high-footfall locations in mind, so it won’t let you (or your customers) down.”

We pre-activate your properties with our amazing Super Hub 3, allowing your residents immediate access to our super fast internet service and Wi-Fi within their new home... from the day they move in!

Speeds of up to 100Mbps provided as standard with our B2R offering, with customers able to upgrade to options of service up to 350Mbps and add on premium TV if they desire.

Virgin Media are always seeking to build new relationships with developers, managing agents and local authorities (not just PRS). If you feel your development could benefit from one of our Build to Rent solutions then get in touch with your local business development manager, new build officer or direct with the team at prsnewbuild@virginmedia.co.uk
In 2017, ISPReview.co.uk conducted a survey of its visitors relating to moving property. Their research found that 71% of buyers would reject an otherwise “ideal home” if the broadband speed did not meet minimum requirements... while 22% said they would try to negotiate a lower price with the vendor.

The minimum speed identified by the survey was 50Mbps by 67% of respondents, significantly higher than the 28Mbps UK average at the time.

A further study by the London School of Economics using 15 years of data has concluded that property prices across the UK increase by 3% when internet speeds double. Home owners in London are also willing to pay up to 8% above market price for properties in areas offering very fast internet speeds.

Virgin Media has consistently topped the Netflix UK speed index since its inception, with offerings by Fibre providers lagging behind us for fastest delivery speed of content.

As a signatory to Ofcom’s voluntary code of practice (2015), we’re committed to being upfront about our broadband speeds and publish ongoing reports on our website about our average speeds on a month to month basis. Ofcom also publishes this data in its yearly reports.

Since the code launched, Virgin Media have been the only UK ISP to increase their advertised speeds.
1. This guide is intended to highlight the current customer premised equipment used by Virgin Media in the UK. This guide is correct as of April 2019.
2. All Equipment is supplied and maintained by Virgin Media.
3. Current broadband data in partnership with SamKnows can be found on our website at virginmedia.com/shop/broadband/speeds.

**Hub 3 – The Technical Bit**

- DOCSIS 3.0 cable modem functionality (also fully compatible with DOCSIS 1.0, 1.1, 2.0)
- 24 bonded downstreams
- 8 bonded upstreams
- Four ethernet 10/100/1000BaseT ports
- Wireless b, g, n capable in 2.4GHz band plus wireless A, N & AC in 5GHz band (Dual-concurrent frequencies)
- Five internal antennas
- Up to three spatial streams in the 5GHz band
- Supports WEP/WPA/WPA2 wireless security encryption
- Supports WPS push button synchronisation
- Built-in router, DHCP and firewall which can be customised and deactivated
- Virgin Media customised housing
- External power supply (12v 1.5A)
- 2 voice ports for Digital Voice Service.
- Dimensions – 236x160x52 (HxWxD))
- Weight – 700g

**Virgin TV V6 powered by TiVo®**

- 1Tb recording capacity (500 hours SD, 100 hours HD).
- Record 6 shows simultaneously.
- Integrated Netflix, Prime Video, YouTube, iPlayer, Spotify and hayu apps.
- UHD 4K ready with immediate access to 4K content on Netflix, Prime Video and YouTube with broadcast content on Virgin TV UHD and BT Sport UHD.
- Stream content between boxes at home if you have more than one V6.
- Our smallest box yet, less than half the size of our previous generation TiVo®.
- Dimensions – 55x230x153 (HxWxD)
- Weight – 1.04Kg

**Virgin Media Business – Hitron CGNV4-BIZ**

- EuroDOCSIS 3.0 and EuroPacketCable 1.5 Certified
- 24 downstream x 8 upstream channel bonding
- 3x3 802.11n+3x3 802.11ac dual band 2.4GHz and 5GHz
- Multiple SSIDs - 8 SSIDs per radio
- SNMP and TR-069
- IPv6 routing
- 2 voice ports with either SIP or MGCP support
- FX4 Model also available with 4 voice ports.
- Dimensions – 227x52x209 (HxWxD)
- Weight – 700g

**TV Apps**

- Virgin TV Go
- Virgin TV Control
- Virgin TV Kids
- Virgin Media Store

- Stream your socks off wherever there WiFi, 3G or 4G in the UK and Europe. It lets you watch TV on your mobile or tablet at home or on the go.
- Set and manage your V6 box, browse the TV guide or change the channel from anywhere in the world with WiFi, 3G or 4G.
- Designed for kids aged 3-7 the Virgin TV Kids app lets you conjure up entertainment with the tap of a finger (or the stamp of a foot) at home – and on the go.
- This app lets you watch or download TV shows and movies you’ve bought from the Virgin Media Store.

**Customer Premised Equipment and Services**

**Version 1.5 Revised 19/11/2019**

**Technical Drawings**

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From Microsoft Office 365 to on premise or hosted Unified Communications, we have the applications to help you drive business productivity. As a developer, having access to the right solutions across multiple locations is critical, talk to us about how we can support your needs.

Environmental compliance. Sustainability standards. Safety regulations. Market competition. Economic stress. There’s no escaping the fact that the construction industry has its fair share of challenges.

Stay on top of your compliance responsibilities and support your supply chain mechanisms in an increasingly competitive market with our technology and communications solutions.

Deliver on time & on budget
Technology helps you manage each project, from those on site to those at head office. Whether you need a temporary internet solution for a mobile project office, or site-to-site connectivity for your established premises, our advisers will support you in designing the right digital platform for your needs. It means a more agile business – and they’re the ones poised to take the lead in the construction industry.

Collaborate, communicate, innovate
It’s virtually impossible to construct or engineer anything in isolation. Your business operates within a complex ecosystem. From gathering raw materials and parts, to the multiple processes needed to create finished products, and providing ongoing customer support - you are part of an information exchange between people, machines and systems. We bring those parts together so information and ideas get spread more quickly, and more efficiently.

Build a more resilient supply chain
Construction is an international procurement business with raw materials and customers located both nationwide and around the world. Help your logistics run smoothly by basing systems in the cloud; track and trace with resilience and flexibility. It’s lower cost, and - as more businesses move to the cloud - it’s also future-proof. Be among the first to take advantage.

Support your staff on any site, anytime
We own one of the widest networks in the UK and operate more than 40 regional offices throughout the country. This means we’re well placed to help you support your staff wherever they are, and to act quickly if any asset needs repair. Our mobile services and virtual private networks mean staff can access data securely, from any location. And we can also provide you with the connectivity you need to help you monitor your most precious assets, whether you use CCTV or other monitoring equipment.

Unleash your operational efficiency
We can make your IT infrastructure work harder for you. Our UK-wide network supports you with reliable data and voice communications, so you can maximise your operational efficiency. With a dedicated connection such as a VPN (virtual private network) or Managed Internet Access – sometimes called leased lines - you can monitor telemetry data in real-time, from the site or the office. You can even use technology like GPS to track assets and manage projects. And that means a faster, more disruptive way of working.

We won’t give you the hard sell. During your chat with us, we’ll talk about your business, the challenges you face, and how we can help. Our goal is that you come away with a product that’s tailored for you.

Talk to us...
0800 953 0180
8am-6.30pm Mon-Fri
Or request a call-back on our website...
www.virginmediabusiness.co.uk
New Build Contacts - North

Here are all your local New Build contacts, get in touch and we can discuss your site requirements.

If you cannot find a suitable contact then please liaise with our central admin team. newbuild@virginmedia.co.uk – 0800 408 0088

virginmedia.com/developer

North New Build Team

Regional New Build Manager
Jeff Hogan – jeff.hogan@virginmedia.co.uk – 07816 167 052

New Build Officers Scotland, North East, Northern Ireland

Postcodes DD, EH, FK, KY, PH
Alan McLeod – alan.mcleod@virginmedia.co.uk – 07985 805 965

Postcodes G, KA, ML, PA
Stephen Scott – stephen.scott@virginmedia.co.uk – 07581 195 829
Covering Glasgow City, Lanarkshire, Paisley and Renfrew, Ayrshire, Dumbarton, Inverclyde, Clydebank.

Postcodes BT
Jayne Watson – jayne.watson@virginmedia.co.uk – 07967 763 432
Covering Northern Ireland

Postcodes DH, DL, NE, SR, TS
Sarah Baldridge – sarah.baldridge@virginmedia.co.uk – 07805 183 775
Covering Tyneside, Wearside, Teesside, County Durham, Northumberland.

New Build Officers North West and Yorkshire

Postcodes BL, M, OL, SK, WA13-WA16, WN1-7
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Covering Manchester, Stockport, Bolton, Rochdale, Macclesfield, Oldham, Bury, Wigan.

Postcodes BB, CA1-CA3, CH, FY, L, LL11-LL13, PR, WA1-WA12, WN8
Amanda Clare – amanda.clare@virginmedia.co.uk – 07890 534 852
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Postcodes BD, HG, HX1-HX3, LS, WF1-WF11, YO
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Darryl Johnson – darryl.johnson@virginmedia.co.uk – 07811 316 369
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Our Regional New Build Officers are supported by our Business Development Team...

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Site Progress
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New Build Contacts – Central

Here are all your local New Build contacts, get in touch and we can discuss your site requirements.

If you cannot find a suitable contact then please liaise with our central admin team newbuild@virginmedia.co.uk – 0800 408 0088

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Central and South West

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New Build Officer

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Postcodes LE, NN
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Covering Nottinghamshire, Chesterfield, Lincolnshire, North East Lincolnshire, Derbyshire.

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Covering Crewe, Stoke, Rugeley, Lichfield, Tamworth, Dudley, Walsall, Wolverhampton, West Bromwich, Telford, Shrewsbury.

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Postcodes EX, PL, TA, TQ
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Here are all your local New Build contacts, get in touch and we can discuss your site requirements.

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London, South Central and South East

Regional New Build Manager
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New Build Officers London

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Paul Rosi – paul.rosi@virginmedia.co.uk – 07985 807 162

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New Build Officers South Central and South East

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New Build Officers South Central and South East


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Site Progress

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