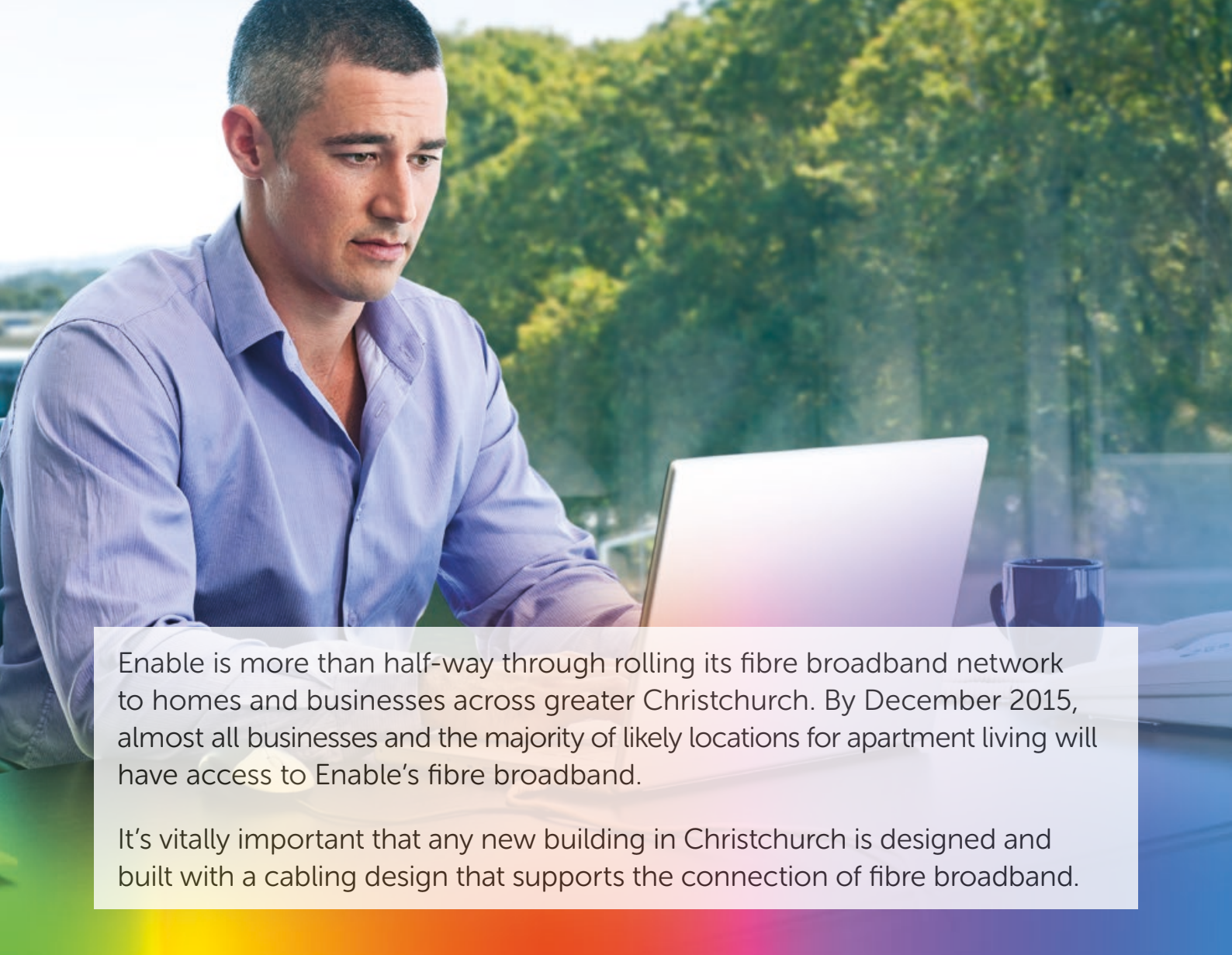


The background of the entire page is a photograph of a construction site. It shows the steel framework of a large building under construction, with several tower cranes visible against a clear blue sky. The sun is low on the horizon, creating a bright lens flare effect in the bottom left corner. A diagonal band of orange and yellow light cuts across the bottom left of the image.

PREPARING A NEW COMMERCIAL BUILDING OR RESIDENTIAL APARTMENT BUILDING FOR FIBRE BROADBAND

A guide for developers and builders



Enable is more than half-way through rolling its fibre broadband network to homes and businesses across greater Christchurch. By December 2015, almost all businesses and the majority of likely locations for apartment living will have access to Enable's fibre broadband.

It's vitally important that any new building in Christchurch is designed and built with a cabling design that supports the connection of fibre broadband.

THE BENEFITS OF PRE-CABLING A BUILDING FOR FIBRE

It is essential that all new or renovated buildings are fitted with appropriate fibre cabling to reduce the disruption caused by connecting a customer to a fibre broadband service after the building is complete. All telecommunications retailers now prefer to deliver fibre-based services to their business customers.

Pre-cabling for fibre broadband:

- Makes it easier for tenants to connect to fibre broadband.
- Reduces the visual impact of a future fibre broadband connection.
- Provides the opportunity to market a building as "fibre ready".
- Often costs less than pre-wiring a building for copper-based broadband.
- Future proofs the building and tenants.

Full Enable cabling standards are available at enable.net.nz/cabling

HOW TO PRE-CABLE A NEW OR RENOVATED COMMERCIAL BUILDING FOR FIBRE

Lead-in ducts to new buildings

All new commercial buildings should include a red Enable service lead-in duct from the building to the property boundary with a white Enable marker post at the boundary end.

Alternatively a 100mm white duct with sweep bends can be installed for Enable to utilise for the fibre lead-in cable.

Enable can also install fibre ducting in a customer supplied open trench at no cost (call **0800 4 FIBRE** to arrange) or Enable ducting can be purchased and installed as part of the normal build process.

Recommended approach to pre-cabling single tenant commercial buildings

All single tenant commercial buildings should be pre-fibred with Low Smoke Zero Halogen (LSZH) pre-cabled micro-duct or 20mm conduit from the External Termination Point (ETP) where the fibre enters the building to the home communications panel in the building.

Recommended approach to pre-cabling multi-dwelling buildings

All low-rise and high-rise multi-dwelling units (MDUs) should be pre-fibred internally with LSZH pre-fibred micro-duct.

A minimum of one independent micro-duct should be installed to each tenancy from the Central Distribution Point (CDP) located in an internal common area (such as a communications room or basement garage) or mounted on an external wall, where no internal area is available.

Recommended approach to pre-cabling a site with multiple buildings

In the case of multi-building sites, each building should be pre-fibred as above – with dedicated red Enable duct or 100mm white duct installed separately between the buildings or from the street boundary to each building. It is not advisable to install LSZH micro-duct between buildings. Enable will install suitable fibre cable if the ducts are made available.

Red Enable duct can be purchased from Humes.

Low Smoke Zero Halogen (LSZH) pre-cabled micro-duct and other Enable recommended cabling products can be purchased from Ideal Electrical.

Enable is very keen to know if a commercial building has been pre-cabled. You can contact us with any plans or As Builts by emailing **fibreready@enable.net.nz**



Detailed information including all wiring diagrams are available in Enable's cabling installation standards. These are available at **enable.net.nz/cabling**.

Please contact Enable on **0800 4 FIBRE** with any questions.

enable
Fibre Broadband