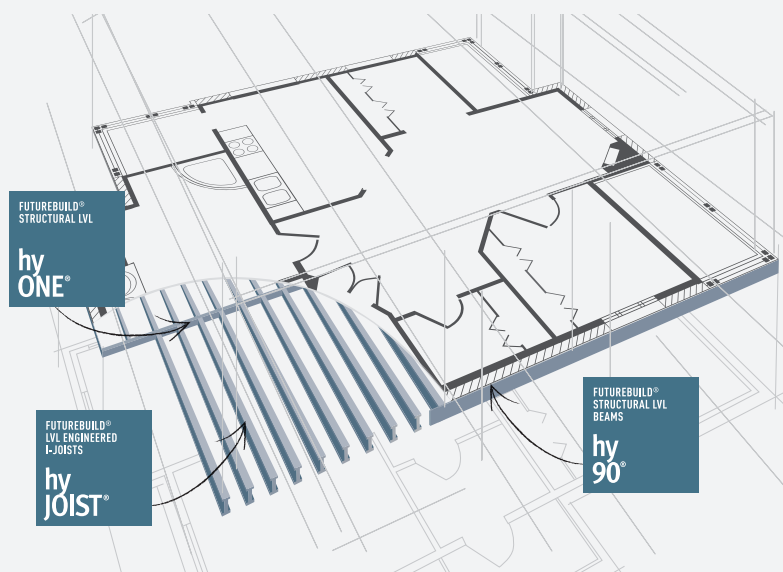


# futurebuild®

residential design service

Architects & Developers

MAKE QUICK  
WORK OF **LVL**  
**MIDFLOORS**  
& **ROOFS**



Use the Futurebuild® LVL Residential Design Service (RDS) to get an optimised LVL engineered midfloor and/or roofing solution from concept to site fast and as easily as possible.

The service provides peace of mind by taking away the pressure and risk of designing complicated midfloors. Our design team use specialist software to design a structurally reliable, New Zealand Building Code compliant solution using proven Futurebuild LVL products you can depend on

## Why use the Futurebuild LVL RDS?

The RDS uses the full Futurebuild LVL range of products to provide cost-effective installed flooring solutions, offering the following advantages:

**Optimisation:** the 45mm, 63mm and 90mm flange hyJOIST options provide the ability to optimise floor layouts, limiting:

- the need for additional supporting beams
- the need to close-up joist spacings in heavily loaded floor areas

**No need for mid-span blocking:** removing the need to install mid span blocking, saving time on site and reducing the possibility of the floor squeaking

**Ease of installation of services:** such as plumbing and ventilation ducts within the floor cavity, which may avoid the need for expensive dropped ceilings and bulkheads or the installation of expensive proprietary reinforcement

[www.futurebuild.co.nz](http://www.futurebuild.co.nz)

DESIGN - PLAN - DELIVER

**RESIDENTIAL**  
DESIGN SERVICE

Enquire Today

For more information please  
contact us on:

0800 585 244 or email  
[design@futurebuild.co.nz](mailto:design@futurebuild.co.nz)

### 1. Send

Please include the following information when requesting a quote, emailed to [design@futurebuild.co.nz](mailto:design@futurebuild.co.nz):

- Architectural and structural plans (where applicable), as well as elevations and cross-sections
- Include preferences for joist depth, joist spacing, as well as truss layout, etc
- We may require interaction with your engineer and/or architect as applicable

### 2. Quantification and Design (as applicable)

As part of the design process you will receive:

- A unique project code for each job, it will begin with an FS and end with a plan code eg. FL – i.e FS12345 - FL
- A Project Assumptions and Limitations Report, detailing any assumptions and exclusions that may need confirmation
- A set of optimised layouts including specific beam and joist layouts Note: Layouts will be stamped “Preliminary – Not for Construction” where confirmation of Project Assumptions Report is required. This may require:
  1. Confirmation of proposed layout
  2. Updated plans at the time of consent
  3. Truss layouts; or
  4. Structural Drawings
- An Environmental Impact Statement, detailing the Global Warming Potential (GWP) of the detailed components
- A Design Certificate detailing components designed by the RDS Team
- Certificate of design work (Form 2A) and/or Producer Statement, PSI – Design
- Generation and supply of IFC files developed as part of the design

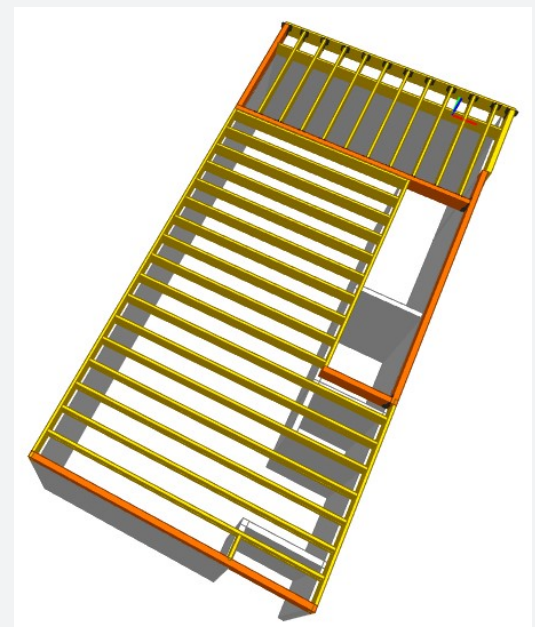


Figure 1. IFC file example

### 3. Prior to your builder ordering your RDS solutions

- Confirm you have reviewed and accepted the Project Assumptions and Limitations Report
- Provide any additional information required for finalising the layouts and removing the ‘preliminary’ stamps

This may include truss layouts, updated plans or structural drawings

### 4. Delivery

Once ordered through your merchant of choice, Futurebuild LVL will deliver into store:

- LVL components - nominal lengths, individually labelled
- Proprietary bracketry for floor systems, including fasteners
- Waterproof Layouts/Plans

**laylout** CarterHoltHarvey  
LVL

Date printed: 19 July 2023  
Page 1 of 2

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Specifier preparing this design and layout: Futurebuild Residential Design Service

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**Project and site details:**

Project details: 123 House Avenue, Auckland	Job No: FS12345 Plan Type: A, Unit 1
Merchant Ref No:	Date Prepared: 19-Jul-23
Job Name: Proposed New Dwelling	Revision:

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**Environmental Impact Statement – Cradle to Gate**

This Environmental Impact Statement – Cradle to Gate provides Global Warming Potential (GWP) data relating to the Futurebuild LVL, Ecooly Plywood and proprietary bracketry detailed on the attached plans and listed below for Life Cycle Analysis (LCA) Production modules only (A1-A3) in accordance with ISO 14026 and EN 15804+A2. The determination of GWP data presented in this Environmental Impact Statement is based on the Futurebuild LVL Laminated Veneer Lumber Environmental Product Declaration (EPD) compiled by Trini-Step-anc Ldc and third party verified by Life Cycle Logo Pty Ltd. Other developed EPDs are referenced below for further information and/or calculation.

This statement includes calculations for two commonly applied Environmental Impact Indicators, GWP Total (GWPt) and GWP Fossil (GWPf). GWPf represents the total carbon footprint of the product (including GWPf), whilst for timber products, the most common values used for carbon footprint in ratings tools like Green Star and eFoot is the fossil carbon footprint, GWPf. Consideration of other life cycle stages including construction process use and end of the stages have been excluded as they are dependent on particular scenarios and have not been declared.

Note: “Gstar” is taken as the Mill Gate, Marsden Point for Futurebuild LVL products.

The inclusion of Environmental Impact Statements with all LVL floor solutions is an extension of Carter Holt Harvey’s continual focus and commitment to sustainability through a science driven, verifiable process with a standard methodology applied across all products.

This Environmental Impact Statement includes an allowance for the products details on:  
 \* First floor joist layout, FS12345 - Type A - FL  
 \* First floor beam layout, FS12345 - Type A - FLB

Member size	Member specification	Linear Meters (m)	Volume (m <sup>3</sup> )	GWPt (kg CO <sub>2</sub> eq)	GWPf (kg CO <sub>2</sub> eq)
H240 x 45	hyJOST	82.4	0.449	-335.9	80.9
240 x 45	hy90 H1-2	18.6	0.201	-164.8	20.2
240 x 90	hy90 H1-2	17.9	0.387	-317.2	39.0
18 x 90	18 x 90 x 2400 mm ply suitable for H2200-45 & H2400-45 hyJOST		0.004	-2.9	0.8

Accessory	Description	Number of	GWPt	GWPf

Figure 2. Environmental Impact Statement example