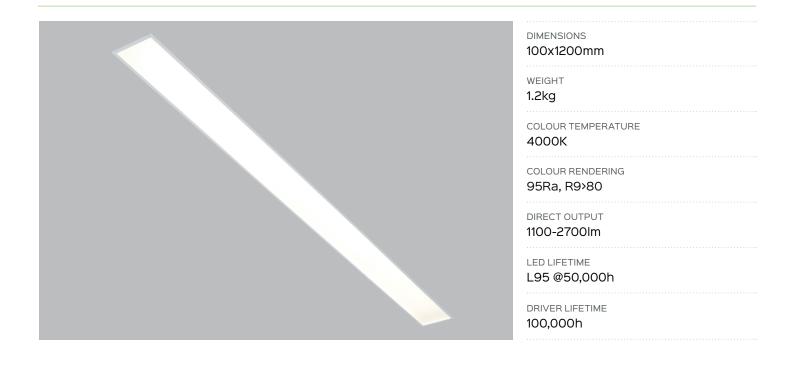
# VILINE 100×1200





### WEIGHT AND COMPOSITION BY MATERIAL

Material	Weight (g)	Weight (%)	GWP (kgCO2e)
GLOBAL ALUMINIUM	601.8	36.0	7.88
COPPER	11.6	0.7	0.04
PLASTICS	294.8	17.7	1.16
STEEL	26.2	1.6	0.08
ELECTRONIC COMPONENTS	478.7	28.7	15.96
CARD	256.2	15.3	0.48

Note: LED driver has been excluded. Driver EPD provided on request.

#### RESULTS

TM65 Calculation			
ASSESSMENT PARAMETER		GLOBAL WARMING POTENTIAL (GWP)	
UNIT	-	[kg CO2 eq]	
PRODUCTION	A1—A4	34.4	
REPAIR	B3	0.835	
END-OF-LIFE	C2-C4	0.282	
TOTAL (x1.3 BUFFER)	A1C4	35.6	



#### TM65ANZ SUMMARY

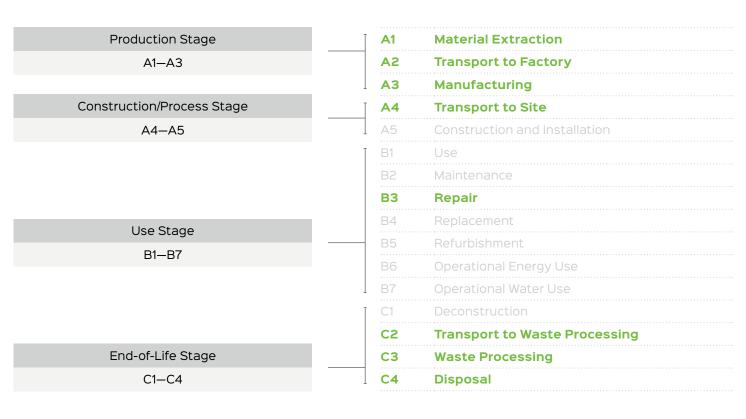
TM65ANZ is an engineering standard published by the Chartered Institution of Building Services Engineers (CIBSE). It provides a clear and concise framework to estimate the embodied carbon of a product when environmental product declarations (EPD's) are not available. In order to appropriately use a TM65ANZ calculation it is important to understand the scope of the method.

Originally created in the United Kingdom, TM65ANZ is a branch of the TM65 standard for Australasian application. It provides additional assumptions that can be made to make the calculation process easier.

WHAT TM65ANZ IS	WHAT TM65ANZ IS NOT
<ul> <li>A method for estimating the embodied carbon of building services equipment</li> </ul>	<ul> <li>A detailed and holistic assessment of a product's environmental impacts</li> </ul>
• A first step to promoting transparency in the industry	• An environmental product declaration (EPD)
A reporting methodology	A peer-reviewed certification
A set of rules that allows the production of comparable metrics A simple, replicable methodology	• An exhaustive assessment of a product's materials
	<ul> <li>A detailed life cycle assessment of building services at a system level</li> </ul>

## CALCULATION PROCESS

The calculation process is broken up into four main sections. Depending on the availability of information on the product, different levels of the TM65ANZ process can be undertaken including a 'basic' and 'mid-level' calculation. For this report a 'mid-level' calculation was done.



### STAGES OF CALCULATION

All sections written in green text are included in a mid-level calculation

## ASSUMPTIONS

The calculation for 'Transport to Site' was made based on land freight from Christchurch to Auckland.