

REF: 22381\_RFI RESPONSE 1 & 2\_03 10 23

03/10/2023

The General Manager
Byron Shire Council
70 Station Steet
MULLUMBIMBY NSW 2482

Re: Assessment of Proposed Ramp in Relation to Wheel Slippage for Waste Vehicle – 29 Shirley Street, Byron Bay

This office has been engaged by Chris Vitalie to assess the proposed ramp (attached to this letter) and check if there will be any issues with wheel slippage.

Greg Aderson & Associates (GAA) has undertaken a structural assessment of the proposed ramp with (max grade of 1:4.1) to check if the waste collection vehicle will slip on the ramp. See attached for supplied vehicle dimensions and masses.

Findings from our assessment reveal that the waste collection vehicle (loaded and unloaded) will not slip on the ramp and that the frictional force generated between the concrete driveway and vehicle tyre will provide adequate traction on the driveway.

The proposed concrete driveway must have the following:

- A heavy broom finish perpendicular to the direction of travel for the frictional resistance.
- The proposed driveway must also be constructed in accordance with NLRG Construction Manual Specification.

Have undertaken our assessment. We confirm that that the waste collection vehicle would not slip (including appropriate safety factors) on the proposed driveway if constructed with a heavy broom finished and in accordance with NRLG Construction Manual Specification.

The concrete driveway surface should be maintained and cleaned by the building manager to avoid mould, moss growth or oil/other contaminant buildup on the surface of the concrete driveway.

Yours faithfully,

Greg Alderson and Associates Pty Ltd

Anthony Mallam

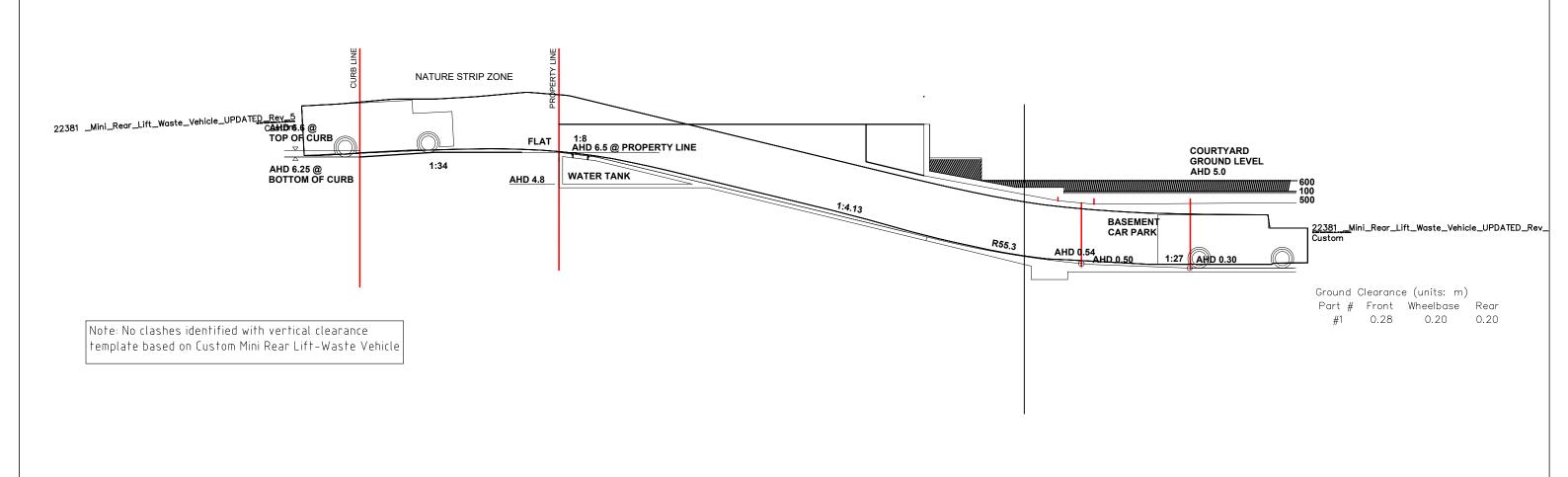
Senior Structural Engineer

BE(civil) hons, MIEAust, NER, CPEng, RPEQ

## Attached:

- Proposed Ramp/Vehicle Specification

CHARTERED PROFESSIONAL ENGINEERS & SCIENTISTS.



VITALE PROPERTY GROUP

29 SHIRLEY STREET

BYRON BAY NSW 2481

Site address:

WASTE VEHICLE

VERTICAL SWEPT PATH

29 SHIRLEY STREET

UNIT DEVELOPMENT

Drawn:

ΑВ

Checked:

ΑE

Job Number:

1:200

Α3

Drawing Number:

Original Size: No. in set:

22381-CIV-SP-05

05 of 05

FOR INFORMATION

23/02/2023

Revision:

REVISION DESCRIPTION BY

UPDATED VEHICLE LENGTH AB 16/08/2022

UPDATED VEHICLE DIMS | AB | 23/02/2023

UPDATED VEHICLE DIMS

DATE

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AB 29/07/2022

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REFER COVER SHEET FOR NOTES UNLESS NOTED OTHERWISE

GREG ALDERSON & ASSOCIATES PTY LTD

ABN 58 594 160 789

43 Main Street CLUNES NSW 2480

Ph: 02 6629 1552

E: office@aldersonassociates.com.au

Web: aldersonassociates.com.au

SD 09/2014

## SALES DATA SHEET

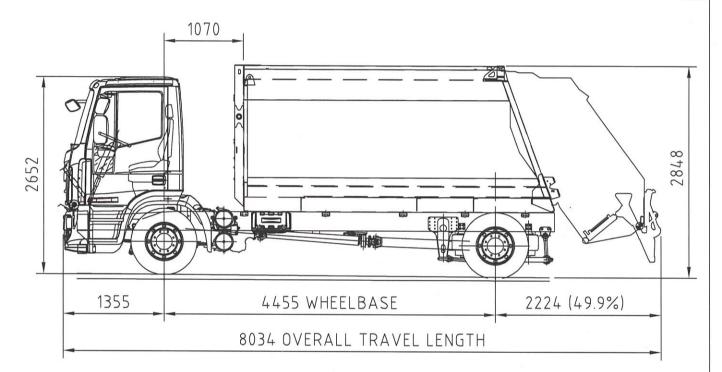
**BUCHER** municipal

ACN 004 992 090

					ACN 004 772 070
PRODUCT NAME		DATE	REVISION	SHEET	
JS REARLO	DADER	02/06/2020	01	1 OF 1	SD-JS14EJTA-V259
PRODUCT CODE	PRODUCT SIZE/	CAPACITY SALES M	ARKET TDALIA		PRODUCT FUNCTION VARIATION

BODY OPTIONS

VEIDELE MARKE	Transport - Transport		
VEHICLE MAKE	VEHICLE MODEL	AXLE CONFIGURATION	WHEELBASE
IVECO	MI 160 F25	1 0	LIEF ICTOL
IVECU	111L 160 EZ5	4 X Z	14455 (STD)
CAB/CHASSIS OPTIONS			VCS CODE
AIDDAC CLICD ALITO TOANC			0 /5 / 5 7 1 1 7
AIRBAG SUSP. AUTO TRANS.			12/F4D11136
			2



=	FRONT (kg)	REAR (kg)	TOTAL (kg)
TRUCK *	3,020	1,800	4,820
JS14 - ECOPACK BODY	561	3,089	3,650
DRIVER	80	0	80
ADD'L 175L FUEL	98	58	156
UNDERBODY BINLIFTER	-125	375	250
TARE	3,634	5,322	8,956
PAYLOAD **	848	3,678	4,527
GROSS	4,482	9,000	13,482
MAX RATED LOAD ***	5,800	9,000	15,000

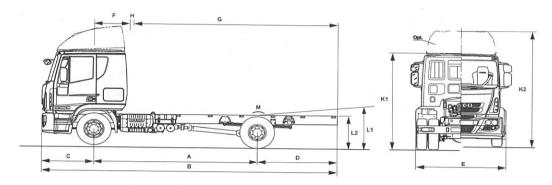
<sup>\*</sup> TRUCK TARE ESTIMATED FROM TRUCK SPEC SHEETS

<sup>\*\*</sup> PAYLOAD WEIGHTS ESTIMATED ONLY AND MAY DIFFER

<sup>\*\*\*</sup> PAYLOAD LIMITED BY REAR LEGAL LIMIT

## EUROCARGO E 6

ML160E25S ML160E25/P 4x2 RIGID



Plated/Design Weight	GVW (Kg)	GTW (Kg)	Front (Kg)	Poor (Ka)
Plated Weight				Rear (Kg)
	15990	19490	5800	10900
Design Weight	15990	19490*	6100	11000
* A GTW of 32500kgs is permissible provided a 9 or 12 speed gearbox and the drawbar pack are specified	-	10.00	0100	11000

Kerb Weight
Weights are for the S model to a standard specification and include water, oils, 5 litres of AdBlue and 20 litres of fuel but exclude driver.
Kerb weights are subject to a manufacturing tolerance of +/-5%.
For /P model add 155kg to the Rear (Kg) axle kerb weight.
A sleeper cab standard roof adds 100kg (70/30kg) to the kerb weight.

For Front (Kg) axle capacity upgrade - see Order Guide

Wheelba	ase (mm)		3105	3690	4185	4455	4815	5175	5670	6570
Front (Kg)			3092	3112	3137	3147	3182	3192	3227	3262
Rear (Kg	9)		1418	1498	1503	1508	1543	1553	1638	1693
Total (Kg	9)		4510	4610	4640	4655	4725	4745	4865	4955
Maximur	m Body/Payload (Kg) @ GVW		11480	11380	11350	11335	11265	11245	11125	11035
Dimensi	ions (mm)			PERSONAL PROPERTY.						
Α	Wheelbase		3105	3690	4185	4455	4815	5175	5670	6570
В	Overall length (over bumpers	3)	5690	6702	7512	7917	8547	9132	9942	11447
C	Front overhang		1362	1362	1362	1362	1362	1362	1362	1362
D	Rear overhang		1313	1740	2055	2190	2460	2685	3000	
E	Cab width (over wings)		2420	2420	2420	2420	2420	2420		2735
F	C/line f/axle to back of cabeq	uip day	385	385	385	385	385	385	2420 385	2420
		sleeper		965	965	965	965	965		385
G	Usable frame length	day	3943	4955	5765	6170	6800	7385	965 8195	965
		sleeper		4375	5185	5590	6220	6805	7615	9700
Н	Cab gap		120	120	120	120	120	120	120	9120
K1	Cab height (unladen*)	std roof	2765	2765	2765	2765	2765	2763	2762	120 2761
K2		high roof		3420	3420	3420	3417	3415	3415	3415
L1	Frame height at centre line of	faxle S	1041	1039	1037	1038	1038	1038	1036	1035
		/P	904	903	903	903	903	903	903	902
L2	Frame height at end of frame	S	1080	1084	1085	1085	1086	1088	1086	1087
		/P	886	886	886	886	886	886	886	
M	Wheel bump clearance		150	150	150	150	150	150	150	886
	Turning circle (wall to wall)		12340	14080	15540	16340	17400	18480	19940	150
	* Reduce by 3mm for air susp	pension models				100.10	17400	10400	19940	22600

Tyres and Wheels	Tyre Size		Tread		Wheels (8 st	hud)
	Front	Rear	Front	Rear	Front	Rear
Standard		285/70R19.5	On Road	Traction	7.50 x 19.5	7.50 x 19.5
Optional Optional		305/70R19.5	On Road	Traction	8.25 x 19.5	8.25 x 19.5
Optional	11R22.5	11R22.5	On/Off Road	On/Off Road	7.50 x 22.5	7.50 x 22.5

