[redacted]

Amanda Scholes | Receptionist, Department, Arun District Council | Location: Ground Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
Internal: 37736 | External: +44 (0) 1903 737500 ext 37736| E-mail: amanda.scholes@arun.gov.uk

Visit Arun's web site at **Error! Hyperlink reference not valid.** Save the environment - think before you print.

---

**From:** Simon Davis <Simon.Davis@arun.gov.uk>
**Sent:** 21 April 2020 12:47
**To:** Planning.Responses <Planning.Responses@arun.gov.uk>
**Subject:** FW: BE/137/19/RES The Cottage, Shripney Road

Consultation Response from ADC Cleansing

---

**From:** Daniel Cox <Daniel.Cox@arun.gov.uk>
**Sent:** 21 April 2020 09:52
**To:** Simon Davis <Simon.Davis@arun.gov.uk>
**Subject:** Fwd: BE/137/19/RES The Cottage, Shripney Road

Hi Simon,
Please see attached from our contractor -that I agree with.
Sorry for the delay in returning this to you.
Thanks
Dan

---

**From:** Kevin Malone [redacted]
**Sent:** Tuesday, April 21, 2020 8:53:27 AM
**To:** Daniel Cox <Daniel.Cox@arun.gov.uk>
**Subject:** RE: BE/137/19/RES The Cottage, Shripney Road

Hi Dan,
The dimensions are about right – I have attached documents relating to Turning radius for our vehicle. Looking at the map you attached it all looks ok, but as with all these developments a lot depends on how the residents park. It

might be worth pointing out that any block paving would have to be able to withstand the weight of the vehicle making a tight turn into and out of the turning area – this would put down a fair bit of "scrub" from rear wheels.

Kind Regards

**Kevin Malone / Operations Manager**

[redacted]

Follow, like and share exclusive content and updates on LinkedIn and Twitter

**From:** Daniel Cox [mailto:Daniel.Cox@arun.gov.uk]
**Sent:** 21 April 2020 05:25
**To:** Kevin Malone [redacted]
**Subject:** Fwd: BE/137/19/RES The Cottage, Shripney Road

Hi Kevin,
Please can you check the dimensions supplied below and whether realistically a refuse vehicle can collect from the attached.
I'll feed the comments through.
Many thanks
Dan

Can your team have a look at the attached layout (site at PO22 9PA).

WSCC Highways had stated that "Tracking is demonstrated for a 9.86 metre refuse vehicle. Although no over-running is indicated, the tracking is very tight to the kerb with very little margin for error. This aside, it must be confirmed with the Arun DC waste collection team that the correct vehicle dimensions have been applied and that the collection arrangements are acceptable."

The attached plan has been amended since to widen the block paving turning head to 4.8m. Can you let me know if the layout is suitable for a refuse vehicle.

The applicant has tracked the layout for a vehicle of the following dimensions:

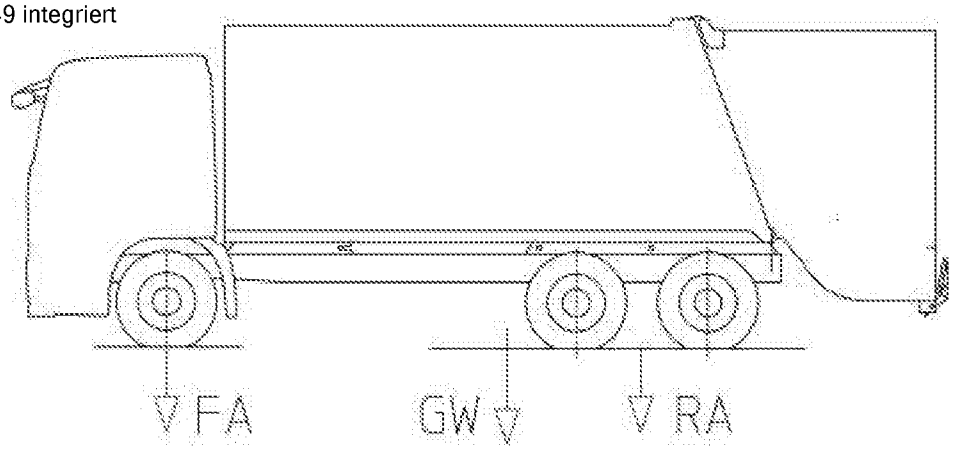
Large Refuse Vehicle (3 axle)
Overall Length 9.860m
Overall Width 2.450m
Overall Body Height 3.814m
Min Body Ground Clearance 0.366m
Track Width 2.450m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 9.500m

Can you also confirm that this is the correct size of vehicle.

# Axle Load Estimates

FAUN KIRCHHOFF GRUPPE

Chassis: MB Econic 2629LL 6x2RS
Wheelbase: 5250 (3900+1350+0) T.W.B 4433
Axle Plating: Fa. 7500 Ra. 19000 Total. 26000
Body: VARIOPRESS-II 522
Binlifter: ZÖLLER 249 integriert




| CHASSIS | | | | |
|---|---|---|---|---|
| Manufacturer | Model | Axle configuration | Cab | Tec. Wheelb (mm) |
| MB | Econic | 2629LL 6x2RS | F0H7 | 4433 |
| BODY | | | | |
| Type | Bodytype | Volume Reference | | |
| VARIOPRESS-II | 522 | 22 | | |
| BINLIFTER | Manufacturer | Model | | |
| | ZÖLLER | 249 integriert | | |

| OPTIONS - Included in the Calculations | | Driver + Crew weight | 105 kg |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

| | Estimated Axle Loads | | |
|---|---|---|---|
| | Front Axle (kg) | Rear Axle (kg) | Total (kg) |
| Chassis & Cab | 4535 | 2815 | 7350 |
| Body (Ejector at Front) | 460 | 5498 | 5958 |
| Binlifter & Frame | -307 | 767 | 460 |
| Crew | 105 | 0 | 105 |
| Options | 0 | 0 | 0 |
| Unladen Weight | 4793 | 9080 | 13873 |
| Plated Axle Weight | 7500 | 19000 | 26000 |
| Load Allowance (Plated less Unladen) | 2707 | 9920 | 12127 |
| Legal Payload | 2631 | 9496 | 12127 |
| Running Weight (Unladen Weight plus Maximum Payload) | 7424 | 18576 | 26000 |

| Important Note: Based on a refuse density of 100kg / m3 and a 6:1 Compaction Ratio. Body Potential in kg is: | 12096 |
|---|---|

Above Calculation is based on Uniform Refuse Density and is subject to + / - 5% variation.
Estimates based on Chassis and Binlifter Manufacturers Technical Literature.
Calculation to Technical Axle Load.

**Recommendation:**

Please contact FAUN Engineering Department for preferred Chassis Specification OR if you require further Technical Information. FAUN Muncipal Vehicle Ltd. give this advice in good faith. But strictly on the understanding that it will accept no liability for any errors or omissions, other than liability, which cannot, by law be excluded.

**Additional Information:**

Chassis ready for use according to manufacturer, updated 19.11.12

| DRAWING & CALCULATIONS PRODUCED BY: Ian Barrow | 12/01/2016 | FWD | 8508 |
|---|---|---|---|

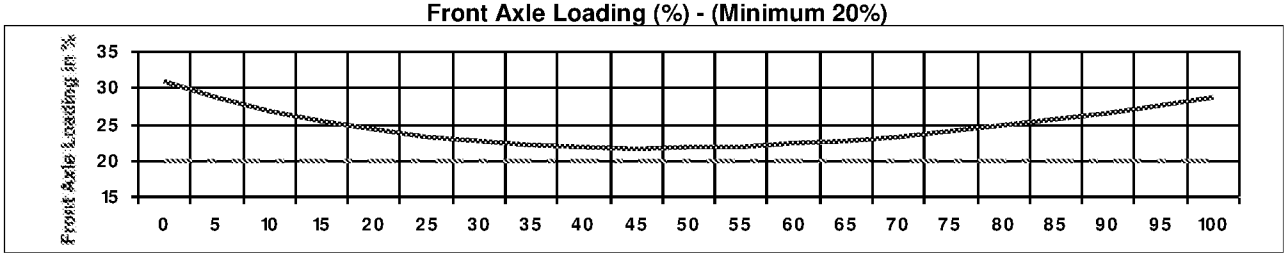
**Code: VP5221S ECO502 ZOE003**

# Axle Load Estimates

FAUN KIRCHHOFF GRUPPE

| LOADED BODY | | FRONT AXLE | | | REAR AXLE | | | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|
| % | VOLUME CU MRTS | PAYLOAD | AXLE LOAD | FRONT AXLE | PAYLOAD | AXLE LOAD | REAR AXLE | PAYLOAD | VEHICLE WEIGHT |
| 0 | 0.00 | -9 | 4265 | 31.0% | 9 | 9608 | 69.0% | 0 | 13873 |
| 5 | 1.01 | -168 | 4132 | 28.7% | 774 | 10347 | 71.3% | 606 | 14479 |
| 10 | 2.02 | -295 | 4030 | 26.9% | 1508 | 11055 | 73.1% | 1213 | 15086 |
| 15 | 3.02 | -393 | 3959 | 25.4% | 2212 | 11733 | 74.6% | 1819 | 15692 |
| 20 | 4.03 | -459 | 3918 | 24.2% | 2885 | 12380 | 75.8% | 2425 | 16298 |
| 25 | 5.04 | -496 | 3908 | 23.3% | 3527 | 12997 | 76.7% | 3032 | 16905 |
| 30 | 6.05 | -501 | 3928 | 22.6% | 4139 | 13583 | 77.4% | 3638 | 17511 |
| 35 | 7.06 | -476 | 3979 | 22.1% | 4721 | 14138 | 77.9% | 4244 | 18117 |
| 40 | 8.06 | -421 | 4061 | 21.8% | 5271 | 14663 | 78.2% | 4851 | 18724 |
| 45 | 9.07 | -335 | 4173 | 21.7% | 5792 | 15157 | 78.3% | 5457 | 19330 |
| 50 | 10.08 | -218 | 4316 | 21.8% | 6281 | 15621 | 78.2% | 6063 | 19936 |
| 55 | 11.09 | -71 | 4489 | 22.0% | 6740 | 16054 | 78.0% | 6670 | 20543 |
| 60 | 12.10 | 107 | 4693 | 22.3% | 7169 | 16457 | 77.7% | 7276 | 21149 |
| 65 | 13.10 | 316 | 4927 | 22.8% | 7567 | 16828 | 77.2% | 7883 | 21756 |
| 70 | 14.11 | 555 | 5192 | 23.3% | 7934 | 17170 | 76.7% | 8489 | 22362 |
| 75 | 15.12 | 824 | 5488 | 24.0% | 8271 | 17481 | 76.0% | 9095 | 22968 |
| 80 | 16.13 | 1124 | 5814 | 24.8% | 8577 | 17761 | 75.2% | 9702 | 23575 |
| 85 | 17.14 | 1455 | 6170 | 25.6% | 8853 | 18011 | 74.4% | 10308 | 24181 |
| 90 | 18.14 | 1816 | 6558 | 26.6% | 9098 | 18230 | 73.4% | 10914 | 24787 |
| 95 | 19.15 | 2208 | 6975 | 27.6% | 9312 | 18418 | 72.4% | 11521 | 25394 |
| 100 | 20.16 | 2631 | 7424 | 28.7% | 9496 | 18576 | 71.3% | 12127 | 26000 |

**Front Axle Loading (%) - (Minimum 20%)**




Vehicle Loading (% of Body Capacity)

**REFUSE VEHICLE WEIGHT PREDICTION DATA**

| | | | | | |
|---|---|---|---|---|---|
| Vehicle Manufacturer, Model / Axle configuration: | MB Econic | | 2629LL 6x2RS | | |
| Body Manufacturer, Model ID / Volume Reference: | FAUN | | VARIOPRESS-II | 522 | 22 |
| Bin Lift Manufacturer / Model: | ZÖLLER | | 249 integriert | | |
| Vehicle Maximum Gross Weight: | 26000 | | | Kg | |
| Front Axle Maximum Gross Weight F1/F2: | 7500 | 0 | | Kg | |
| Rear Axle Maximum Gross Weight R1/R2/R3: | 11500 | 7500 | 0 | Kg | |
| Average Waste Density: | 602 | | | Kg per Cu Mtr | |

| Payload % | Payload kg | 1 st Front Axle kg | 1 st Front Axle % of Legal | 2 nd Front Axle kg | 2 nd Front Axle % of Legal | 1 st Rear Axle kg | 1 st Rear Axle % of Legal | 2 nd Rear Axle kg | 2 nd Rear Axle % of Legal | 3 rd Rear Axle kg | 3 rd Rear Axle % of Legal | Total Vehicle Weight | % at GWV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 4265 | 56.9% | | | 5816 | 50.6% | 3793 | 50.6% | | | 13873 | 53.4% |
| 5 | 606 | 4132 | 55.1% | | | 6263 | 54.5% | 4084 | 54.5% | | | 14479 | 55.7% |
| 10 | 1213 | 4030 | 53.7% | | | 6691 | 58.2% | 4364 | 58.2% | | | 15086 | 58.0% |
| 15 | 1819 | 3959 | 52.8% | | | 7102 | 61.8% | 4631 | 61.8% | | | 15692 | 60.4% |
| 20 | 2425 | 3918 | 52.2% | | | 7493 | 65.2% | 4887 | 65.2% | | | 16298 | 62.7% |
| 25 | 3032 | 3908 | 52.1% | | | 7866 | 68.4% | 5130 | 68.4% | | | 16905 | 65.0% |
| 30 | 3638 | 3928 | 52.4% | | | 8221 | 71.5% | 5362 | 71.5% | | | 17511 | 67.4% |
| 35 | 4244 | 3979 | 53.1% | | | 8557 | 74.4% | 5581 | 74.4% | | | 18117 | 69.7% |
| 40 | 4851 | 4061 | 54.1% | | | 8875 | 77.2% | 5788 | 77.2% | | | 18724 | 72.0% |
| 45 | 5457 | 4173 | 55.6% | | | 9174 | 79.8% | 5983 | 79.8% | | | 19330 | 74.3% |
| 50 | 6063 | 4316 | 57.5% | | | 9455 | 82.2% | 6166 | 82.2% | | | 19936 | 76.7% |
| 55 | 6670 | 4489 | 59.9% | | | 9717 | 84.5% | 6337 | 84.5% | | | 20543 | 79.0% |
| 60 | 7276 | 4693 | 62.6% | | | 9961 | 86.6% | 6496 | 86.6% | | | 21149 | 81.3% |
| 65 | 7883 | 4927 | 65.7% | | | 10186 | 88.6% | 6643 | 88.6% | | | 21756 | 83.7% |
| 70 | 8489 | 5192 | 69.2% | | | 10392 | 90.4% | 6778 | 90.4% | | | 22362 | 86.0% |
| 75 | 9095 | 5488 | 73.2% | | | 10580 | 92.0% | 6900 | 92.0% | | | 22968 | 88.3% |
| 80 | 9702 | 5814 | 77.5% | | | 10750 | 93.5% | 7011 | 93.5% | | | 23575 | 90.7% |
| 85 | 10308 | 6170 | 82.3% | | | 10901 | 94.8% | 7109 | 94.8% | | | 24181 | 93.0% |
| 90 | 10914 | 6558 | 87.4% | | | 11034 | 95.9% | 7196 | 95.9% | | | 24787 | 95.3% |
| 95 | 11521 | 6975 | 93.0% | | | 11148 | 96.9% | 7270 | 96.9% | | | 25394 | 97.7% |
| 100 | 12127 | 7424 | 99.0% | | | 11244 | 97.8% | 7333 | 97.8% | | | 26000 | 100.0% |

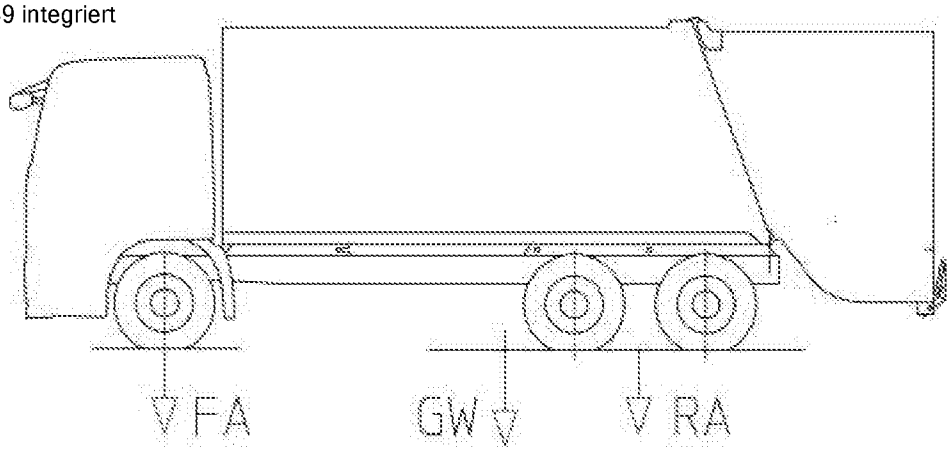
**FWD No 8508**

**Code: VP5221S ECO502 ZOE003**

# Axle Load Estimates

FAUN
KIRCHHOFF GRUPPE

Chassis: MB Econic 2629LL 6x2RS
Wheelbase: 5250 (3900+1350+0) T.W.B 4433
Axle Plating: Fa. 7500 Ra. 19000 Total. 26000
Body: VARIOPRESS-II 522
Binlifter: ZÖLLER 249 integriert




| Code: | Description: | weight kg |
|---|---|---|
| | | |

**Sum: 0 kg**

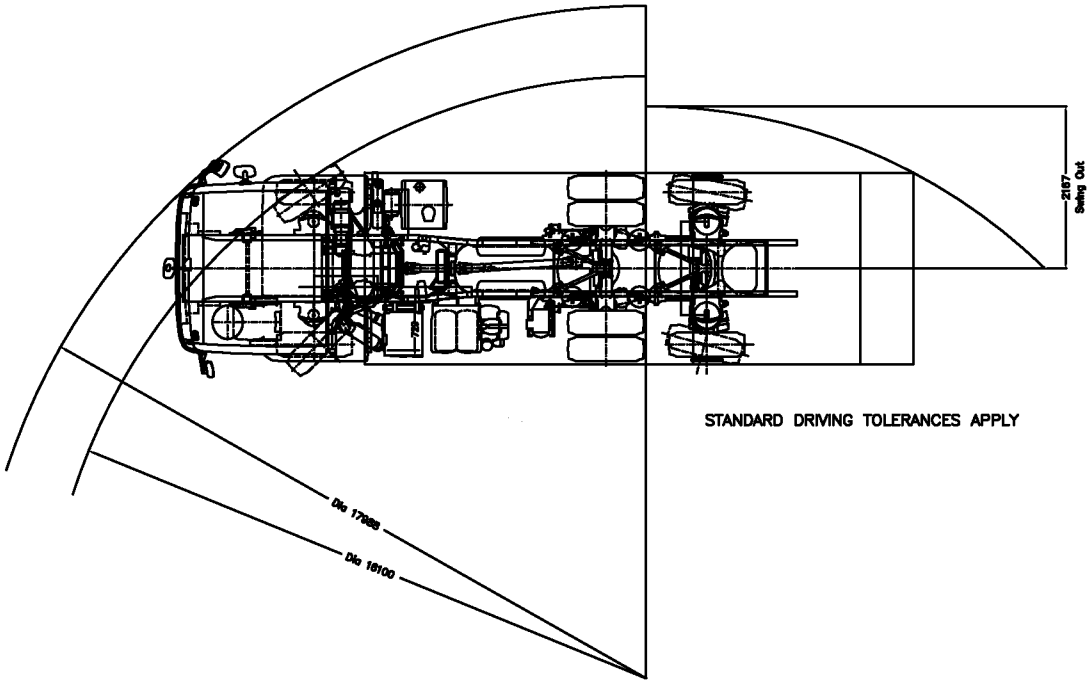
**possible deveation + / - 5%**

| DRAWING & CALCULATIONS PRODUCED BY: Ian Barrow | 12/01/2016 | FWD | 8508 |
|---|---|---|---|

**Code: VP5221S ECO502 ZOE003**

# FAUN Turning Circle No 8508

Chassis: MERCEDES ECONIC 6x2RS 2629LL Euro 5 Crew Cab Wheelbase: 5250 T.W.B.4433
Plated Weights: Fa.7500 Ma.11500 Ra.7500 (19000). TOTAL.26000
Body: FAUN 22cu.m VP2 (VP5221S) Binlifter: ZOELLER OMEGA




STANDARD DRIVING TOLERANCES APPLY

ARUN DISTRICT COUNCIL BE/137/19/RES