

**PRE-WEIGHING CHECK LIST**

Aircraft Type: <i>A320-21A</i>		Date: <i>27.08.2021.</i>
Aircraft registration:	MSN: <i>3840</i>	Place: <i>CTN TEHNIKA ZAGREB</i>
Aircraft seating configuration at time of weighing: <i>150</i>		Weighted by: <i>E. DALCIC 10638</i>

ITEM	CHECKED	REMARK
<b>GENERAL</b>		
Hangar doors closed	<input checked="" type="checkbox"/>	
Hangar ventilation & heating closed	<input checked="" type="checkbox"/>	
Mechanician (brakeman) on board during weighing	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<i>86 kg</i>
<b>FLUIDS</b>		
Drain all fuel tanks to UNDRAINABLE LEVEL	<input checked="" type="checkbox"/>	
Check Engine oil and fill it up to STANDARD LEVEL	<input checked="" type="checkbox"/>	
Check APU oil and fill it up to STANDARD LEVEL	<input checked="" type="checkbox"/>	
Check IDG oil and fill it up to STANDARD LEVEL	<input checked="" type="checkbox"/>	
<b>TOILET FLUID</b>		
Empty Potable Water tanks	Full <input type="checkbox"/> Empty <input checked="" type="checkbox"/>	
Oxygen system full	<input checked="" type="checkbox"/>	
<b>OUTSIDE INSPECTION</b>		
Aircraft is dry and generally in clean condition	<input checked="" type="checkbox"/>	
All doors and service panels closed	<input checked="" type="checkbox"/>	
Flaps and slats retracted	<input checked="" type="checkbox"/>	
All thrust reversers closed	<input checked="" type="checkbox"/>	
Horizontal stabilizer trim in neutral position	<input checked="" type="checkbox"/>	
Landing Gear Oleo's serviced	<input checked="" type="checkbox"/>	
All chocks removed before weighing (LDG gear, flight controls)	<input checked="" type="checkbox"/>	
<b>CABIN INSPECTION</b>		
Remove all literature, magazines, blankets etc. from hatracks & stowages	<input checked="" type="checkbox"/>	
Seats	Installed <input checked="" type="checkbox"/> Removed <input type="checkbox"/>	
Seat pockets (IFS magazines)	Full <input type="checkbox"/> Empty <input checked="" type="checkbox"/>	
Passengers Life-jackets	Installed <input checked="" type="checkbox"/> Removed <input type="checkbox"/>	
Check all Emergency Equipment correctly stowed against SAFETY & EMERGENCY LOCATION (P.S. REV 5. 12/02/02)	<input checked="" type="checkbox"/>	
Ovens, coffee makers and waste boxes (galley and toilets) installed	Installed <input checked="" type="checkbox"/> Removed <input type="checkbox"/>	
Remove all non-fixed items and loose from Galleys (trolleys, boxes, tables, etc.)	<input checked="" type="checkbox"/>	
<b>COCKPIT INSPECTION</b>		
Remove all documentation (manuals, handbooks)	<input checked="" type="checkbox"/>	
Remove Navigation kit	<input checked="" type="checkbox"/>	
<b>CARGO COMPARTMENTS INSPECTION</b>		
All containers/pallets removed	<input checked="" type="checkbox"/>	
All cargo nets installed	<input checked="" type="checkbox"/>	
Flight spares box	Installed <input type="checkbox"/> Removed <input checked="" type="checkbox"/>	
All loose items removed	<input checked="" type="checkbox"/>	

*[Signature]*  
30280

Aircraft Model: **A320-214** A/C Registration: Serial No.: **3840**  
 Date of weighing: **27-Aug-21** Place of weighing: **ZAGREB**

Weighing Equipment: **JWD AC1-25LP** Next Calibration: **16-Mar-22**  
 Place of calibrating: **ZAGREB**

Aircraft Configuration

Aircraft seating configuration at time of weighing	180	All seats installed	:YES
Fuel tanks drained	:YES	Seat pockets	:EMPTY
Engine, APU & IDG oil serviced and full	:YES	Passengers Life-jackets installed	:YES
Toilet Fluid	:EMPTY	All Emergency Equipment installed	:YES
Potable Water	:EMPTY	Owens, coffee makers and waste boxes installed	:YES
Oxygen system	:FULL	All non-fixed items and loose from Galleys removed	:YES
All doors and services panel closed	:YES	Aircraft library excluded	:YES
All thrust reversers closed	:YES	Remove Navigation kit	:YES
Horizontal stabilizer trim in neutral position	:YES	All containers/pallets removed	:YES
		All cargo nets installed	:YES

LEFT NLG WHEEL		
	Reading	Zero Corr.
No. 1	2454	-2
No. 2	2444	0
With zero & latitude corr.		
2444		

RIGHT NLG WHEEL		
	Reading	Zero Corr.
No. 1	2266	0
No. 2	2282	0
With zero & latitude corr.		
2282		

L/H MLG OUTBD		
	Reading	Zero Corr.
No. 1	9240	0
No. 2	9256	0
With zero & latitude corr.		
9256		

L/H MLG INBD		
	Reading	Zero Corr.
No. 1	9292	-2
No. 2	9284	0
With zero & latitude corr.		
9284		

R/H MLG OUTBD		
	Reading	Zero Corr.
No. 1	9110	-2
No. 2	9108	0
With zero & latitude corr.		
9108		

R/H MLG INBD		
	Reading	Zero Corr.
No. 1	9542	-2
No. 2	9552	0
With zero & latitude corr.		
9552		

Aircraft attitude **-0.56** Nose down

Note: See sheet 2 for addition and deductions  
 Weight calculated using 2nd readings. 1st readings for comparison and scale pre-loading

	[kg]	[meters]	[m*kg]
Aircraft as weighed	41926	18.880	791561.08
Deduction (see sheet 2)	-126.8	9.264	-1174.7125
Addition (see sheet 2)	65.6	18.089	1186.6102
<b>Operator Empty Weight</b>	<b>41864.8</b>	<b>18.908</b>	<b>791572.98</b>

Weight and balance Calculation (A320 W&B manual, chapter CTL-GEN)

Airplane C.G. (% MAC) =  $H.arm-LEMAC/MAC \times 100 = 18.914-17.8015/4.1935 \times 100 =$  **25.72 %RC**  
 Airplane C.G. (% MAC) =  $59.35-65.3 \times \sin(A/C \text{ attitude})-302.6 \times (r+21)/w$  **25.73 %RC**

Weighing supervisor: **Jovanović Damir, ing** Calculated by: **Emilio Dalbello dipl. ing.**

Date: **30-Aug-21**

Aircraft Model: **A320-214** A/C Registration: Serial No.: **3840**  
 Date of weighing: **27-Aug-21** Place of weighing: **ZAGREB**

Weighing Equipment: **JWD AC1-25LP** Next Calibration: **16-Mar-22**  
 Place of calibrating: **ZAGREB**

**DEDUCTION**

Quan.	Description	Weight [kg]	H-arm [meters]	Moment [m*kg]
1	NLG Lock pin	0.10	7.617	0.7617
2	MLG Lock pin	1.00	19.500	19.5
1	Brakeman in cockpit	86.00	5.085	437.31
1	Undrainable fuel	39.70	18.064	717.1408
		-126.80	9.264	-1174.7125

**ADDITION**

Quan.	Description	Weight [kg]	H-arm [meters]	Moment [m*kg]
3	NLG & MLG Lock pin	1.10	5.867	6.4537
1	Unusable fuel	64.50	18.297	1180.1565
		65.60	18.089	1186.6102

# CROATIA AIRLINES

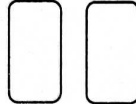
## A319/320 AIRCRAFT WEIGHING RECORD

Date of weighing: 27. 08. 2021.  
 Weighing record:  
 Place of weighing: CTA TEHNIKA ZAGREB  
 Weighing Equipment: ACA-25LP  
 Date Last Calibrated: 16. 3. 2021.

Aircraft Registration:

Serial No.: 3840

L/H NOSE (NLG) WHEEL			R/H NOSE (NLG) WHEEL		
	Reading	Corr.		Reading	Corr.
No. 1	2454	-2	No. 1	2266	∅
No. 2	2444	∅	No. 2	2282	∅



L/H MLG OUTBD			L/H MLG INBD			R/H MLG OUTBD			R/H MLG INBD		
	Reading	Corr.		Reading	Corr.		Reading	Corr.		Reading	Corr.
No. 1	9240	∅	No. 1	9292	-2	No. 1	9110	-2	No. 1	9542	-2
No. 2	9256	∅	No. 2	9284	∅	No. 2	9108	∅	No. 2	9552	∅

Aircraft pitch attitude	
No. 1	-0.56
No. 2	-0.56

Note: Rotate scales between two weighing!

Comment: VAGANJE NR 1: 41 904 kg  
 VAGANJE NR 2: 41 926 kg

BRAKERMAN: 86 kg

Recorded by: E. DALBELLO 10838