

# ***European Aviation Safety Agency***

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**EASA**

## **TYPE-CERTIFICATE DATA SHEET FOR NOISE**

**PZL**

**Type Certificate Holder:  
EADS PZL "Warszawa-Okecie" S.A.**

Al. Krakowska 110/114  
00-971 WARSAW  
POLAND

For models : PZL-104 Wilga 32  
PZL-104 Wilga 32A  
PZL-104 Wilga 35  
PZL-104 Wilga 80  
PZL-104M Wilga 2000  
PZL-104MA Wilga 2000  
PZL-104MF Wilga 2000  
PZL-104MN Wilga 2000

Issue 4, 08 February 2010

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Type Certificate Holder	<b>EADS PZL "Warszawa-Okecie" S.A.</b>	Aircraft Type Designation	<b>PZL-104 Wilga 32A</b>
Engine Manufacturer	<b>Teledyne Continental</b>	Engine Type Designation	<b>O-470-L</b>
Noise Certification Basis	<b>ICAO Annex 16, Volume I</b>	Edition / Amendment	Chapter

EASA Record No.	Propeller Manufacturer	Propeller Type Designation	Additional modifications	Maximum Take-off mass (kg)	Take-off dB(A)	
					Level	Limit
C619	<b>McCauley</b>	<b>2A-34C-50/90A2</b>	<b>none</b>	<b>1.230</b>	<b>**</b>	<b>**</b>

\*\*By virtue of the date of type certification this aircraft type is in accordance with the provisions of Article 6.1 of Regulation 216/2008 without the need to comply with the Standards of ICAO Annex 16, Volume I. However for individual examples of this aircraft type which were first issued with a certificate of airworthiness on or after 1 January 1980 there is a need to demonstrate compliance with the Standards of ICAO Annex 16, Volume I.

Type Certificate Holder	<b>EADS PZL "Warszawa-Okecie" S.A.</b>	Aircraft Type Designation	<b>PZL-104 Wilga 32A</b>
Engine Manufacturer	<b>Teledyne Continental</b>	Engine Type Designation	<b>O-470-R</b>
Noise Certification Basis	<b>ICAO Annex 16, Volume I</b>	Edition / Amendment	Chapter

EASA Record No.	Propeller Manufacturer	Propeller Type Designation	Additional modifications	Maximum Take-off mass (kg)	Take-off dB(A)	
					Level	Limit
C618	<b>McCauley</b>	<b>2A-34C-50/90A2</b>	<b>none</b>	<b>1.230</b>	<b>**</b>	<b>**</b>

\*\*By virtue of the date of type certification this aircraft type is in accordance with the provisions of Article 6.1 of Regulation 216/2008 without the need to comply with the Standards of ICAO Annex 16, Volume I. However for individual examples of this aircraft type which were first issued with a certificate of airworthiness on or after 1 January 1980 there is a need to demonstrate compliance with the Standards of ICAO Annex 16, Volume I.

Type Certificate Holder	<b>EADS PZL "Warszawa-Okęcie" S.A.</b>	Aircraft Type Designation	<b>PZL-104 Wilga 35</b>
Engine Manufacturer	<b>WSK PZL-Kalisz SA</b>	Engine Type Designation	<b>AI-14 R</b>
Noise Certification Basis	<b>ICAO Annex 16, Volume I</b>	Edition / Amendment	Chapter <b>6</b>

EASA Record No.	Propeller Manufacturer	Propeller Type Designation	Additional modifications	Maximum Take-off mass (kg)	Overflight dB(A)	
					Level	Limit
C434	<b>WSK "PZL-Warszawa-Okęcie"</b>	<b>US 122 000</b>	<b>none</b>	<b>1.300</b>	<b>63,0**</b>	<b>77,3**</b>
C432	<b>WSK "PZL-Warszawa-Okęcie"</b>	<b>US 122 000</b>	<b>none</b>	<b>1.230</b>	<b>63,0**</b>	<b>76,4**</b>

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Type Certificate Holder	<b>EADS PZL "Warszawa-Okęcie" S.A.</b>	Aircraft Type Designation	<b>PZL-104 Wilga 35</b>
Engine Manufacturer	<b>WSK PZL-Kalisz SA</b>	Engine Type Designation	<b>AI-14 RA</b>
Noise Certification Basis	<b>ICAO Annex 16, Volume I</b>	Edition / Amendment	Chapter <b>6</b>

EASA Record No.	Propeller Manufacturer	Propeller Type Designation	Additional modifications	Maximum Take-off mass (kg)	Overflight dB(A)	
					Level	Limit
C9825	<b>WSK "PZL-Warszawa-Okęcie"</b>	<b>US 122 000</b>	<b>none</b>	<b>1.300</b>	<b>67,8**</b>	<b>77,3**</b>
C9826	<b>WSK "PZL-Warszawa-Okęcie"</b>	<b>US 122 000</b>	<b>none</b>	<b>1.230</b>	<b>65,1**</b>	<b>76,4**</b>

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Type Certificate Holder\* **EADS PZL "Warszawa-Okęcie" S.A.** Aircraft Type Designation\* **PZL-104 Wilga 80**  
 Engine Manufacturer\* **WSK PZL-Kalisz SA** Engine Type Designation\* **AI-14 RA**  
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter\* **6**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Overflight dB(A)	
					Level*	Limit
C410	<b>WSK "PZL-Warszawa-Okęcie"</b>	<b>US 122 000</b>	<b>none</b>	<b>1.300</b>	<b>61,8</b>	<b>77,3</b>

\* Items so marked shall be included on EASA Form 45.

\*\* Additional modifications essential to meet the requirements or needed to attain the certificated noise levels. Items so marked shall be included on EASA Form 45

Type Certificate Holder\* **EADS PZL "Warszawa-Okecie" S.A.** Aircraft Type Designation\* **PZL-104M Wilga 2000**  
 Engine Manufacturer\* **Lycoming** Engine Type Designation\* **IO-540 K1B5**  
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter\* **10 (10.4a)**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C409	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.500</b>	<b>87,2</b>	<b>88,0</b>
C408	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.400</b>	<b>85,9</b>	<b>88,0</b>
C407	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8468A-6R</b>	<b>none</b>	<b>1.400</b>	<b>87,3</b>	<b>88,0</b>

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Type Certificate Holder\* **EADS PZL "Warszawa-Okecie" S.A.** Aircraft Type Designation\* **PZL-104M Wilga 2000**  
 Engine Manufacturer\* **Lycoming** Engine Type Designation\* **IO-540 K1D5**  
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter\* **10 (10.4a)**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C406	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.500</b>	<b>87,2</b>	<b>88,0</b>
C404	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.400</b>	<b>85,9</b>	<b>88,0</b>
C402	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8468A-6R</b>	<b>none</b>	<b>1.400</b>	<b>87,3</b>	<b>88,0</b>

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Type Certificate Holder\* **EADS PZL "Warszawa-Okecie" S.A.** Aircraft Type Designation\* **PZL-104M Wilga 2000**  
 Engine Manufacturer\* **Lycoming** Engine Type Designation\* **IO-540 K1J5D**  
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter\* **10 (10.4a)**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C400	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.500</b>	<b>87,2</b>	<b>88,0</b>
C280	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.400</b>	<b>85,9</b>	<b>88,0</b>
C279	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8468A-6R</b>	<b>none</b>	<b>1.400</b>	<b>87,3</b>	<b>88,0</b>

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Type Certificate Holder\* **EADS PZL "Warszawa-Okecie" S.A.** Aircraft Type Designation\* **PZL-104MA Wilga 2000**  
 Engine Manufacturer\* **Lycoming** Engine Type Designation\* **IO-540 K1B5**  
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter\* **10**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C898	<b>Hartzell Propeller Inc.</b>	<b>HC-E3YR-1RF/F8068+2</b>	<b>none</b>	<b>1.500</b>	<b>84,6</b>	<b>88,0</b>

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Type Certificate Holder\* **EADS PZL "Warszawa-Okecie" S.A.** Aircraft Type Designation\* **PZL-104MA Wilga 2000**  
 Engine Manufacturer\* **Lycoming** Engine Type Designation\* **IO-540 K1D5**  
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter\* **10**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C899	<b>Hartzell Propeller Inc.</b>	<b>HC-E3YR-1RF/F8068+2</b>	<b>none</b>	<b>1.500</b>	<b>84,6</b>	<b>88,0</b>

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Type Certificate Holder\* **EADS PZL "Warszawa-Okecie" S.A.** Aircraft Type Designation\* **PZL-104MF Wilga 2000**  
 Engine Manufacturer\* **Lycoming** Engine Type Designation\* **IO-540 K1B5**  
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter\* **10**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C897	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.500</b>	<b>87,2</b>	<b>88,0</b>
C894	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.400</b>	<b>85,9</b>	<b>88,0</b>
C891	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8468A-6R</b>	<b>none</b>	<b>1.400</b>	<b>87,3</b>	<b>88,0</b>

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Type Certificate Holder\* **EADS PZL "Warszawa-Okecie" S.A.** Aircraft Type Designation\* **PZL-104MF Wilga 2000**  
 Engine Manufacturer\* **Lycoming** Engine Type Designation\* **IO-540 K1D5**  
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter\* **10**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C896	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.500</b>	<b>87,2</b>	<b>88,0</b>
C893	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.400</b>	<b>85,9</b>	<b>88,0</b>
C890	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8468A-6R</b>	<b>none</b>	<b>1.400</b>	<b>87,3</b>	<b>88,0</b>

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Type Certificate Holder\* **EADS PZL "Warszawa-Okecie" S.A.** Aircraft Type Designation\* **PZL-104MF Wilga 2000**  
 Engine Manufacturer\* **Lycoming** Engine Type Designation\* **IO-540 K1J5D**  
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter\* **10**

EASA Record No.	Propeller Manufacturer*	Propeller Type Designation*	Additional modifications**	Maximum Take-off mass* (kg)	Take-off dB(A)	
					Level*	Limit
C895	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.500</b>	<b>87,2</b>	<b>88,0</b>
C892	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.400</b>	<b>85,9</b>	<b>88,0</b>
C889	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8468A-6R</b>	<b>none</b>	<b>1.400</b>	<b>87,3</b>	<b>88,0</b>

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Type Certificate Holder \* **EADS PZL "Warszawa-Okecie" S.A.** Aircraft Type Designation \* **PZL-104MN Wilga 2000**  
 Engine Manufacturer \* **Lycoming** Engine Type Designation \* **IO-540 K1B5**  
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter \* **10**

EASA Record No.	Propeller Manufacturer *	Propeller Type Designation *	Additional modifications **	Maximum Take-off mass * (kg)	Take-off dB(A)	
					Level *	Limit
C888	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.400</b>	<b>82,3</b>	<b>88,0</b>
C143	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8468A-6R</b>	<b>none</b>	<b>1.400</b>	<b>85,2</b>	<b>88,0</b>

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Type Certificate Holder \* **EADS PZL "Warszawa-Okecie" S.A.** Aircraft Type Designation \* **PZL-104MN Wilga 2000**  
 Engine Manufacturer \* **Lycoming** Engine Type Designation \* **IO-540 K1D5**  
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter \* **10**

EASA Record No.	Propeller Manufacturer *	Propeller Type Designation *	Additional modifications **	Maximum Take-off mass * (kg)	Take-off dB(A)	
					Level *	Limit
C886	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.400</b>	<b>82,3</b>	<b>88,0</b>
C884	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8468A-6R</b>	<b>none</b>	<b>1.400</b>	<b>85,2</b>	<b>88,0</b>

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Type Certificate Holder \* **EADS PZL "Warszawa-Okecie" S.A.** Aircraft Type Designation \* **PZL-104MN Wilga 2000**  
 Engine Manufacturer \* **Lycoming** Engine Type Designation \* **IO-540 K1J5D**  
 Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter \* **10**

EASA Record No.	Propeller Manufacturer *	Propeller Type Designation *	Additional modifications **	Maximum Take-off mass * (kg)	Take-off dB(A)	
					Level *	Limit
C887	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8068</b>	<b>none</b>	<b>1.400</b>	<b>82,3</b>	<b>88,0</b>
C885	<b>Hartzell Propeller Inc.</b>	<b>HC-C3YR-1RF/F8468A-6R</b>	<b>none</b>	<b>1.400</b>	<b>85,2</b>	<b>88,0</b>

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**Change Record**

<b>Issue</b>	<b>Date</b>	<b>Changes</b>
Issue 1	29 January 2007	Initial Issue
Issue 2	10 May 2007	Revised
Issue 3	22 April 2009	Revised
Issue 4	08 February 2010	Changed Records C432 and C434; added records C9825 and C9826