



European Aviation Safety Agency

EASA

SUPPLEMENTAL TYPE-CERTIFICATE DATA SHEET

EASA 10015031

Do28-D2

Turbine Conversion under EASA STC 10015031 (Do28-G92)

Gomolzig Flugzeug- und Maschinenbau GmbH

Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany

For models: Do28-D2

Issue 03: 30 Nov 2010

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Note

This Supplemental Type Certificate Data Sheet is supplemental to the TCDS for the basic aircraft Do 28 (TCDS EASA.A.360). Any Paragraph not included in this STCDS is unchanged from the basic aircraft TCDS

SECTION A: DO28-D2 (DO28-G92-A-1900)

A.I. General

1. Data Sheet No.: 10015031
2. a) Type: Do28
b) Model: Do28-D2
c) Variant: Do28-D2
d) Version (STC): G92-A-1900

3. Airworthiness Category: Normal
4. a) Type Certificate Holder RUAG Aerospace Services GmbH
P.O.Box 1253
D-82231 Wessling
Federal Republic of Germany

b) Supplemental Type Certificate Holder GOMOLZIG Flugzeug- und Maschinenbau GmbH
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
5. Manufacturer of STC: GOMOLZIG Flugzeug- und Maschinenbau GmbH
POA Certificate holder No: DE.21G.
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
6. Certification Application Date: 25.10.1995
7. (Reserved) National Certifying Authority
8. (Reserved) National Authority Type Certificate Date:

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 25.10.1995
2. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1. February 1965, Amendment 23-1 thru 23-38
3. Special Conditions: None

- 3. Exemptions: None
- 4. Deviations: None
- 5. Equivalent Safety Findings: None
- 6. Requirements elected to comply: None
- 7. Environmental Standards: **Noise:** ICAO Annex 16, Volume I
(further details refer to EASA noise database)
Emission: ICAO Annex 16, Volume II, Part II
- 8. (Reserved) Additional National Requirements:
- 9. (Reserved)

A.III. Technical Characteristics and Operational Limitations

- 1. Type Design Definition: Master Drawing List G92
- 2. Description: Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
- 3. Equipment: Refer to AFM
- 4. Dimensions: Refer to AFM
- 5. Engine: Two (2x)
 - 5.1.1 Model: WALTER M 601 D-2 turboprop engines
 - 5.1.2 Type Certificate: EASA.E.070
 - 5.1.3 Limitations: According to AFM
- 6. (reserved)
- 7. Propeller: Two (2x)
 - 7.1 Model: AVIA PROPELLER V508 D-2-99A
 - 7.2 Type Certificate: EASA.P.028
 - 7.3 Number of blades: 3
 - 7.4 Diameter: Diameter 2500 mm
 - 7.5 Sense of Rotation: Right-Hand Tractor
- 8. Fluids:
 - 8.1 Fuel: Commercial Kerosene Jet A-1
 - 8.2 Oil: Refer to AFM
 - 8.3 Coolant: None
- 9. Fluid capacities:
 - 9.1 Fuel: Two Main Fuel Tanks

	Total:	2 x 452 Litres each, total 904 Litres
	Usable:	2 x 447 Litres each, total 894 Litres
9.2 Oil:	One Engine Oil Tank	
	Maximum:	7,0 Litres, min. 5,5 Litres
	Total Oil in Tank and in Engine max.	11,0 Litres
9.3 Coolant system capacity:	None	
10. Air Speeds:	Design Manoeuvring Speed V_A :	129 KCAS
	Flap Extended Speed V_{FE} :	110 KCAS
	Maximum Operating Speed V_{MO}	155 KCAS
	Minimum Control Speed V_{MC}	65 KCAS
	Min. Safety Speed, Single Engine V_{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft	
12. All-weather Operations Capability:	Refer to AFM	
13. Maximum Weights:	Take-Off:	3 850 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
	Maximum Masses during parachute jumper drop operation only:	
	Take-Off:	4 015 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
14. Centre of Gravity Range:	Aft Limit:	4.036 m (158,9 inches) aft of reference datum at 3850 kg (8,497 lbs) or less.
	Forward Limit:	3,81 m (148.7 inches) aft of reference datum at 4,015 kg (8,865 lbs), 3,776 m (148.7 inches) aft of reference datum at 3,850 kg (8,497 lbs), 3,656 m (152.9 inches) aft of reference datum at 2,750 kg (6,069 lbs) or less.
15. Datum:	No Changes to Basic Do 28 D-2	
16. Control surface deflections:	No Changes to Basic Do 28 D-2	

17. Levelling Means: No Changes to Basic Do 28 D-2
18. Minimum Flight Crew: 1
19. Maximum Passenger Seating Capacity: 14
For Parachute Jumper Drop Operation: 15
20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)
21. Wheels and Tyres: No Changes to Basic Do 28 D-2
22. (Reserved):

[insert additional rows as applicable]

A.IV. Operating and Service Instructions

1. Flight Manual: DORNIER Do 28G92 Airplane Flight Manual issued for S/N 4134, approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions
2. Technical Manual: DORNIER Do 28D-2 Maintenance Manual
WALTER Maintenance Manual for M 601 D-2 engine
AVIA PROPELLER Operation and Installation Manual – V 508 D-2
3. Repair Manual: None
4. Manual for Operation: None
5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
6. Table of Dimensions, Limits and Clearances: Refer to AFM
7. Instruments and aggregates: None

A.V. Notes:

None

SECTION B: DO28-D2 (DO28-G92-EF-A-1900)

B.I. General

1. Data Sheet No.: 10015031
2. a) Type: Do28
b) Model: Do28-D2
c) Variant: Do28-D2
d) Version (STC): G92-EF-A-1900
3. Airworthiness Category: Normal
4. a) Type Certificate Holder
RUAG Aerospace Services GmbH
P.O.Box 1253
D-82231 Wessling
Federal Republic of Germany

b) Supplemental Type
Certificate Holder
GOMOLZIG Flugzeug- und Maschinenbau GmbH
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
5. Manufacturer of STC: GOMOLZIG Flugzeug- und Maschinenbau GmbH
POA Certificate holder No: DE.21G.
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
6. Certification Application
Date: 25.10.1995
7. (Reserved) National
Certifying Authority
8. (Reserved) National
Authority Type Certificate
Date:

B.II. EASA Certification Basis

1. Reference Date for
determining the applicable
requirements: 25.10.1995
2. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1.
February 1965, Amendment 23-1 thru 23-38
3. Special Conditions: None

- 3. Exemptions: None
- 4. Deviations: None
- 5. Equivalent Safety Findings: None
- 6. Requirements elected to comply: None
- 7. Environmental Standards: **Noise:** ICAO Annex 16, Volume I
(further details refer to EASA noise database)
Emission: ICAO Annex 16, Volume II, Part II
- 8. (Reserved) Additional National Requirements:
- 9. (Reserved)

B.III. Technical Characteristics and Operational Limitations

- 1. Type Design Definition: Master Drawing List G92
- 2. Description: Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
- 3. Equipment: Refer to AFM
- 4. Dimensions: Refer to AFM
- 5. Engine: Two (2x)
 - 5.1.1 Model: WALTER M 601 D-2 turboprop engines
 - 5.1.2 Type Certificate: EASA.E.070
 - 5.1.3 Limitations: According to AFM
- 6. (reserved)
- 7. Propeller: Two (2x)
 - 7.1 Model: AVIA PROPELLER V508 D-2-99A
 - 7.2 Type Certificate: EASA.P.028
 - 7.3 Number of blades: 3
 - 7.4 Diameter: Diameter 2500 mm
 - 7.5 Sense of Rotation: Right-Hand Tractor
- 8. Fluids:
 - 8.1 Fuel: Commercial Kerosene Jet A-1
 - 8.2 Oil: Refer to AFM
 - 8.3 Coolant: None
- 9. Fluid capacities:
 - 9.1 Fuel: Two Main Fuel Tanks

	Total:	2 x 452 Litres each, total 904 Litres
	Usable:	2 x 447 Litres each, total 894 Litres
	Two external Fuel Tanks	
	Total:	2x 246 Litres each, total 492 Litres
	Usable:	2x 236 Litres each, total 472 Litres
9.2 Oil:	One Engine Oil Tank	
	Maximum:	7,0 Litres, min. 5,5 Litres
	Total Oil in Tank and in Engine max. 11,0 Litres	
9.3 Coolant system capacity:	None	
10. Air Speeds:	Design Manoevring Speed V_A :	129 KCAS
	Flap Extended Speed V_{FE} :	110 KCAS
	Maximum Operating Speed V_{MO}	155 KCAS
	Minimum Control Speed V_{MC}	65 KCAS
	Min. Safety Speed, Single Engine V_{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft	
12. All-weather Operations Capability:	Refer to AFM	
13. Maximum Weights:	Take-Off:	3 850 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
	Maximum Masses during parachute jumper drop operation only:	
	Take-Off:	4 015 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
14. Centre of Gravity Range:	Aft Limit:	4.036 m (158,9 inches) aft of reference datum at 3850 kg (8,497 lbs) or less.
	Forward Limit:	3,81 m (148.7 inches) aft of reference datum at 4,015 kg (8,865 lbs), 3,776 m (148.7 inches) aft of reference datum at 3,850 kg (8,497 lbs), 3,656 m (152.9 inches) aft of reference datum at 2,750 kg (6,069 lbs) or less.

15. Datum: No Changes to Basic Do 28 D-2
16. Control surface deflections: No Changes to Basic Do 28 D-2
17. Levelling Means: No Changes to Basic Do 28 D-2
18. Minimum Flight Crew: 1
19. Maximum Passenger Seating Capacity: 14
For Parachute Jumper Drop Operation: 15
20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)
21. Wheels and Tyres: No Changes to Basic Do 28 D-2
22. (Reserved):

[insert additional rows as applicable]

B.IV. Operating and Service Instructions

3. Flight Manual: DORNIER Do 28G92 Airplane Flight Manual issued for S/N 4134, approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions
4. Technical Manual: DORNIER Do 28D-2 Maintenance Manual
WALTER Maintenance Manual for M 601 D-2 engine
AVIA PROPELLER Operation and Installation Manual – V 508 D-2
3. Repair Manual: None
4. Manual for Operation: None
5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
6. Table of Dimensions, Limits and Clearances: Refer to AFM
7. Instruments and aggregates: None

B.V. Notes:

External fuel tanks have to be removed for parachute jumper drop operation.

SECTION C: DO28-D2 (DO28-G92-A-1950)

C.I. General

1. Data Sheet No.: 10015031
2. a) Type: Do28
b) Model: Do28-D2
c) Variant: Do28-D2
d) Version (STC): G92-A-1950
3. Airworthiness Category: Normal
4. a) Type Certificate Holder RUAG Aerospace Services GmbH
P.O.Box 1253
D-82231 Wessling
Federal Republic of Germany

b) Supplemental Type Certificate Holder GOMOLZIG Flugzeug- und Maschinenbau GmbH
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
5. Manufacturer of STC: GOMOLZIG Flugzeug- und Maschinenbau GmbH
POA Certificate holder No: DE.21G.
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
6. Certification Application Date: 25.10.1995
7. (Reserved) National Certifying Authority
8. (Reserved) National Authority Type Certificate Date:

C.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 25.10.1995
2. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1. February 1965, Amendment 23-1 thru 23-38
3. Special Conditions: None

- 3. Exemptions: None
- 4. Deviations: None
- 5. Equivalent Safety Findings: None
- 6. Requirements elected to comply: None
- 7. Environmental Standards: **Noise:** ICAO Annex 16, Volume I
(further details refer to EASA noise database)
Emission: ICAO Annex 16, Volume II, Part II
- 8. (Reserved) Additional National Requirements:
- 9. (Reserved)

C.III. Technical Characteristics and Operational Limitations

- 1. Type Design Definition: Master Drawing List G92
- 2. Description: Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
- 3. Equipment: Refer to AFM
- 4. Dimensions: Refer to AFM
- 5. Engine: Two (2x)
 - 5.1.1 Model: WALTER M 601 D-2 turboprop engines
 - 5.1.2 Type Certificate: EASA.E.070
 - 5.1.3 Limitations: According to AFM
- 6. (reserved)
- 7. Propeller: Two (2x)
 - 7.1 Model: AVIA PROPELLER V508 D-2-99A
 - 7.2 Type Certificate: EASA.P.028
 - 7.3 Number of blades: 3
 - 7.4 Diameter: Diameter 2500 mm
 - 7.5 Sense of Rotation: Right-Hand Tractor
- 8. Fluids:
 - 8.1 Fuel: Commercial Kerosene Jet A-1
 - 8.2 Oil: Refer to AFM
 - 8.3 Coolant: None
- 9. Fluid capacities:
 - 9.1 Fuel: Two Main Fuel Tanks

	Total:	2 x 452 Litres each, total 904 Litres
	Usable:	2 x 447 Litres each, total 894 Litres
9.2 Oil:	One Engine Oil Tank	
	Maximum:	7,0 Litres, min. 5,5 Litres
	Total Oil in Tank and in Engine max.	11,0 Litres
9.3 Coolant system capacity:	None	
10. Air Speeds:	Design Manoeuvring Speed V_A :	129 KCAS
	Flap Extended Speed V_{FE} :	110 KCAS
	Maximum Operating Speed V_{MO}	155 KCAS
	Minimum Control Speed V_{MC}	65 KCAS
	Min. Safety Speed, Single Engine V_{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft	
12. All-weather Operations Capability:	Refer to AFM	
13. Maximum Weights:	Take-Off:	3 850 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
	Maximum Masses during parachute jumper drop operation only:	
	Take-Off:	4 015 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
14. Centre of Gravity Range:	Aft Limit: 4.036 m (158,9 inches) aft of reference datum at 3850 kg (8,497 lbs) or less.	
	Forward Limit: 3,81 m (148.7 inches) aft of reference datum at 4,015 kg (8,865 lbs), 3,776 m (148.7 inches) aft of reference datum at 3,850 kg (8,497 lbs), 3,656 m (152.9 inches) aft of reference datum at 2,750 kg (6,069 lbs) or less.	
15. Datum:	No Changes to Basic Do 28 D-2	
16. Control surface deflections:	No Changes to Basic Do 28 D-2	

17. Levelling Means: No Changes to Basic Do 28 D-2
18. Minimum Flight Crew: 1
19. Maximum Passenger Seating Capacity: 14
For Parachute Jumper Drop Operation: 15
20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)
21. Wheels and Tyres: No Changes to Basic Do 28 D-2
22. (Reserved):

[insert additional rows as applicable]

C.IV. Operating and Service Instructions

5. Flight Manual: DORNIER Do 28G92 Airplane Flight Manual approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions
6. Technical Manual: DORNIER Do 28D-2 Maintenance Manual
WALTER Maintenance Manual for M 601 D-2 engine
AVIA PROPELLER Operation and Installation Manual – V 508 D-2
3. Repair Manual: None
4. Manual for Operation: None
5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
6. Table of Dimensions, Limits and Clearances: Refer to AFM
7. Instruments and aggregates: None

C.V. Notes:

None

SECTION D: DO28-D2 (DO28-G92-EF-A-1950)

D.I. General

1. Data Sheet No.: 10015031
2. a) Type: Do28
b) Model: Do28-D2
c) Variant: Do28-D2
d) Version (STC): G92-EF-A-1950
3. Airworthiness Category: Normal
4. a) Type Certificate Holder
RUAG Aerospace Services GmbH
P.O.Box 1253
D-82231 Wessling
Federal Republic of Germany

b) Supplemental Type
Certificate Holder
GOMOLZIG Flugzeug- und Maschinenbau GmbH
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
5. Manufacturer of STC: GOMOLZIG Flugzeug- und Maschinenbau GmbH
POA Certificate holder No: DE.21G.
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
6. Certification Application
Date: 25.10.1995
7. (Reserved) National
Certifying Authority
8. (Reserved) National
Authority Type Certificate
Date:

D.II. EASA Certification Basis

1. Reference Date for
determining the applicable
requirements: 25.10.1995
2. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1.
February 1965, Amendment 23-1 thru 23-38
3. Special Conditions: None

- 3. Exemptions: None
- 4. Deviations: None
- 5. Equivalent Safety Findings: None
- 6. Requirements elected to comply: None
- 7. Environmental Standards: **Noise:** ICAO Annex 16, Volume I
(further details refer to EASA noise database)
Emission: ICAO Annex 16, Volume II, Part II
- 8. (Reserved) Additional National Requirements:
- 9. (Reserved)

D.III. Technical Characteristics and Operational Limitations

- 1. Type Design Definition: Master Drawing List G92
- 2. Description: Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
- 3. Equipment: Refer to AFM
- 4. Dimensions: Refer to AFM
- 5. Engine: Two (2x)
 - 5.1.1 Model: WALTER M 601 D-2 turboprop engines
 - 5.1.2 Type Certificate: EASA.E.070
 - 5.1.3 Limitations: According to AFM
- 6. (reserved)
- 7. Propeller: Two (2x)
 - 7.1 Model: AVIA PROPELLER V508 D-2-99A
 - 7.2 Type Certificate: EASA.P.028
 - 7.3 Number of blades: 3
 - 7.4 Diameter: Diameter 2500 mm
 - 7.5 Sense of Rotation: Right-Hand Tractor
- 8. Fluids:
 - 8.1 Fuel: Commercial Kerosene Jet A-1
 - 8.2 Oil: Refer to AFM
 - 8.3 Coolant: None
- 9. Fluid capacities:
 - 9.1 Fuel: Two Main Fuel Tanks

	Total:	2 x 452 Litres each, total 904 Litres
	Usable:	2 x 447 Litres each, total 894 Litres
	Two external Fuel Tanks	
	Total:	2x 246 Litres each, total 492 Litres
	Usable:	2x 236 Litres each, total 472 Litres
9.2 Oil:	One Engine Oil Tank	
	Maximum:	7,0 Litres, min. 5,5 Litres
	Total Oil in Tank and in Engine max. 11,0 Litres	
9.3 Coolant system capacity:	None	
10. Air Speeds:	Design Manoevring Speed V_A :	129 KCAS
	Flap Extended Speed V_{FE} :	110 KCAS
	Maximum Operating Speed V_{MO}	155 KCAS
	Minimum Control Speed V_{MC}	65 KCAS
	Min. Safety Speed, Single Engine V_{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft	
12. All-weather Operations Capability:	Refer to AFM	
13. Maximum Weights:	Take-Off:	3 850 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
	Maximum Masses during parachute jumper drop operation only:	
	Take-Off:	4 015 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
14. Centre of Gravity Range:	Aft Limit:	4.036 m (158,9 inches) aft of reference datum at 3850 kg (8,497 lbs) or less.
	Forward Limit:	3,81 m (148.7 inches) aft of reference datum at 4,015 kg (8,865 lbs), 3,776 m (148.7 inches) aft of reference datum at 3,850 kg (8,497 lbs), 3,656 m (152.9 inches) aft of reference datum at 2,750 kg (6,069 lbs) or less.

15. Datum: No Changes to Basic Do 28 D-2
16. Control surface deflections: No Changes to Basic Do 28 D-2
17. Levelling Means: No Changes to Basic Do 28 D-2
18. Minimum Flight Crew: 1
19. Maximum Passenger Seating Capacity: 14
For Parachute Jumper Drop Operation: 15
20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)
21. Wheels and Tyres: No Changes to Basic Do 28 D-2
22. (Reserved):
- [insert additional rows as applicable]

D.IV. Operating and Service Instructions

7. Flight Manual: DORNIER Do 28G92 Airplane Flight Manual approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions
8. Technical Manual: DORNIER Do 28D-2 Maintenance Manual
WALTER Maintenance Manual for M 601 D-2 engine
AVIA PROPELLER Operation and Installation Manual – V 508 D-2
3. Repair Manual: None
4. Manual for Operation: None
5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
6. Table of Dimensions, Limits and Clearances: Refer to AFM
7. Instruments and aggregates: None

D.V. Notes:

External fuel tanks have to be removed for parachute jumper drop operation.

SECTION E: DO28-D2 (DO28-G92-B-1800)

E.I. General

1. Data Sheet No.: 10015031
2. a) Type: Do28
b) Model: Do28-D2
c) Variant: Do28-D2
d) Version (STC): G92-B-1800

3. Airworthiness Category: Normal
4. a) Type Certificate Holder
RUAG Aerospace Services GmbH
P.O.Box 1253
D-82231 Wessling
Federal Republic of Germany

b) Supplemental Type
Certificate Holder
GOMOLZIG Flugzeug- und Maschinenbau GmbH
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
5. Manufacturer of STC:
GOMOLZIG Flugzeug- und Maschinenbau GmbH
POA Certificate holder No: DE.21G.
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
6. Certification Application
Date: 28.07.2010
7. (Reserved) National
Certifying Authority
8. (Reserved) National
Authority Type Certificate
Date:

E.II. EASA Certification Basis

1. Reference Date for
determining the applicable
requirements: 28.07.2010
2. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1.
February 1965, Amendment 23-1 thru 23-38
3. Special Conditions: None
3. Exemptions: None

4. Deviations: None
5. Equivalent Safety Findings: None
6. Requirements elected to comply: None
7. Environmental Standards: **Noise: ICAO Annex 16, Volume I
(further details refer to EASA noise database)**
Emission: ICAO Annex 16, Volume II, Part II
8. (Reserved) Additional National Requirements:
9. (Reserved)

E.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List G92
2. Description: Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
3. Equipment: Refer to AFM
4. Dimensions: Refer to AFM
5. Engine: Two (2x)
 - 5.1.1 Model: WALTER M 601 D-2 turboprop engines
 - 5.1.2 Type Certificate: EASA.E.070
 - 5.1.3 Limitations: According to AFM and AFM-Supplement Modification 2023625-1800
6. (reserved)
7. Propeller: Two (2x)
 - 7.1 Model: AVIA PROPELLER V508 D-2-99B
 - 7.2 Type Certificate: EASA.P.028
 - 7.3 Number of blades: 3
 - 7.4 Diameter: Diameter 2500 mm
 - 7.5 Sense of Rotation: Right-Hand Tractor
8. Fluids:
 - 8.1 Fuel: Commercial Kerosene Jet A-1
 - 8.2 Oil: Refer to AFM
 - 8.3 Coolant: None
9. Fluid capacities:
 - 9.1 Fuel: Two Main Fuel Tanks
Total: 2 x 452 Litres each, total 904 Litres

	Usable:	2 x 447 Litres each, total 894 Litres
9.2 Oil:	One Engine Oil Tank	
	Maximum:	7,0 Litres, min. 5,5 Litres
	Total Oil in Tank and in Engine max.	11,0 Litres
9.3 Coolant system capacity:	None	
10. Air Speeds:	Design Manoeuvring Speed V_A :	129 KCAS
	Flap Extended Speed V_{FE} :	110 KCAS
	Maximum Operating Speed V_{MO}	155 KCAS
	Minimum Control Speed V_{MC}	65 KCAS
	Min. Safety Speed, Single Engine V_{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft	
12. All-weather Operations Capability:	Refer to AFM	
13. Maximum Weights:	Take-Off:	3 850 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
	Maximum Masses during parachute jumper drop operation only:	
	Take-Off:	4 015 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
14. Centre of Gravity Range:	Aft Limit: 4.036 m (158,9 inches) aft of reference datum at 3850 kg (8,497 lbs) or less.	
	Forward Limit: 3,81 m (148.7 inches) aft of reference datum at 4,015 kg (8,865 lbs), 3,776 m (148.7 inches) aft of reference datum at 3,850 kg (8,497 lbs), 3,656 m (152.9 inches) aft of reference datum at 2,750 kg (6,069 lbs) or less.	
15. Datum:	No Changes to Basic Do 28 D-2	
16. Control surface deflections:	No Changes to Basic Do 28 D-2	
17. Levelling Means:	No Changes to Basic Do 28 D-2	

18. Minimum Flight Crew: 1
19. Maximum Passenger Seating Capacity: 14
For Parachute Jumper Drop Operation: 15
20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)
21. Wheels and Tyres: No Changes to Basic Do 28 D-2
22. (Reserved):

[insert additional rows as applicable]

E.IV. Operating and Service Instructions

9. Flight Manual: DORNIER Do 28G92 Airplane Flight Manual approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions and AFM-Supplement Modification 2023625-1800
10. Technical Manual: DORNIER Do 28D-2 Maintenance Manual
WALTER Maintenance Manual for M 601 D-2 engine
AVIA PROPELLER Operation and Installation Manual – V 508 D-2
3. Repair Manual: None
4. Manual for Operation: None
5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
6. Table of Dimensions, Limits and Clearances: Refer to AFM
7. Instruments and aggregates: None

E.V. Notes:

None

SECTION F: DO28-D2 (DO28-G92-EF-B-1800)

F.I. General

1. Data Sheet No.: 10015031
2. a) Type: Do28
b) Model: Do28-D2
c) Variant: Do28-D2
d) Version (STC): G92-EF-B-1800
3. Airworthiness Category: Normal
4. a) Type Certificate Holder
RUAG Aerospace Services GmbH
P.O.Box 1253
D-82231 Wessling
Federal Republic of Germany

b) Supplemental Type Certificate Holder
GOMOLZIG Flugzeug- und Maschinenbau GmbH
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
5. Manufacturer of STC: GOMOLZIG Flugzeug- und Maschinenbau GmbH
POA Certificate holder No: DE.21G.
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
6. Certification Application Date: 28.07.2010
7. (Reserved) National Certifying Authority
8. (Reserved) National Authority Type Certificate Date:

F.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 28.07.2010
2. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1. February 1965, Amendment 23-1 thru 23-38
3. Special Conditions: None

- 3. Exemptions: None
- 4. Deviations: None
- 5. Equivalent Safety Findings: None
- 6. Requirements elected to comply: None
- 7. Environmental Standards: **Noise:** ICAO Annex 16, Volume I
(further details refer to EASA noise database)
Emission: ICAO Annex 16, Volume II, Part II
- 8. (Reserved) Additional National Requirements:
- 9. (Reserved)

F.III. Technical Characteristics and Operational Limitations

- 1. Type Design Definition: Master Drawing List G92
- 2. Description: Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
- 3. Equipment: Refer to AFM
- 4. Dimensions: Refer to AFM
- 5. Engine: Two (2x)
 - 5.1.1 Model: WALTER M 601 D-2 turboprop engines
 - 5.1.2 Type Certificate: EASA.E.070
 - 5.1.3 Limitations: According to AFM and AFM-Supplement Modification 2023625-1800
- 6. (reserved)
- 7. Propeller: Two (2x)
 - 7.1 Model: AVIA PROPELLER V508 D-2-99B
 - 7.2 Type Certificate: EASA.P.028
 - 7.3 Number of blades: 3
 - 7.4 Diameter: Diameter 2500 mm
 - 7.5 Sense of Rotation: Right-Hand Tractor
- 8. Fluids:
 - 8.1 Fuel: Commercial Kerosene Jet A-1
 - 8.2 Oil: Refer to AFM
 - 8.3 Coolant: None
- 9. Fluid capacities:
 - 9.1 Fuel: Two Main Fuel Tanks

	Total:	2 x 452 Litres each, total 904 Litres
	Usable:	2 x 447 Litres each, total 894 Litres
	Two external Fuel Tanks	
	Total:	2x 246 Litres each, total 492 Litres
	Usable:	2x 236 Litres each, total 472 Litres
9.2 Oil:	One Engine Oil Tank	
	Maximum:	7,0 Litres, min. 5,5 Litres
	Total Oil in Tank and in Engine max. 11,0 Litres	
9.3 Coolant system capacity:	None	
10. Air Speeds:	Design Manoevring Speed V_A :	129 KCAS
	Flap Extended Speed V_{FE} :	110 KCAS
	Maximum Operating Speed V_{MO}	155 KCAS
	Minimum Control Speed V_{MC}	65 KCAS
	Min. Safety Speed, Single Engine V_{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft	
12. All-weather Operations Capability:	Refer to AFM	
13. Maximum Weights:	Take-Off:	3 850 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
	Maximum Masses during parachute jumper drop operation only:	
	Take-Off:	4 015 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
14. Centre of Gravity Range:	Aft Limit:	4.036 m (158,9 inches) aft of reference datum at 3850 kg (8,497 lbs) or less.
	Forward Limit:	3,81 m (148.7 inches) aft of reference datum at 4,015 kg (8,865 lbs), 3,776 m (148.7 inches) aft of reference datum at 3,850 kg (8,497 lbs), 3,656 m (152.9 inches) aft of reference datum at 2,750 kg (6,069 lbs) or less.

- 15. Datum: No Changes to Basic Do 28 D-2
- 16. Control surface deflections: No Changes to Basic Do 28 D-2
- 17. Levelling Means: No Changes to Basic Do 28 D-2
- 18. Minimum Flight Crew: 1
- 19. Maximum Passenger Seating Capacity: 14
For Parachute Jumper Drop Operation: 15
- 20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)
- 21. Wheels and Tyres: No Changes to Basic Do 28 D-2
- 22. (Reserved):

[insert additional rows as applicable]

F.IV. Operating and Service Instructions

- 11. Flight Manual: DORNIER Do 28G92 Airplane Flight Manual approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions and AFM-Supplement Modification 2023625-1800
- 12. Technical Manual: DORNIER Do 28D-2 Maintenance Manual
WALTER Maintenance Manual for M 601 D-2 engine
AVIA PROPELLER Operation and Installation Manual – V 508 D-2
- 3. Repair Manual: None
- 4. Manual for Operation: None
- 5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
- 6. Table of Dimensions, Limits and Clearances: Refer to AFM
- 7. Instruments and aggregates: None

F.V. Notes:

External fuel tanks have to be removed for parachute jumper drop operation.

SECTION G: DO28-D2 (DO28-G92-B-1950)

G.I. General

1. Data Sheet No.: 10015031
2. a) Type: Do28
b) Model: Do28-D2
c) Variant: Do28-D2
d) Version (STC): G92-B-1950

3. Airworthiness Category: Normal
4. a) Type Certificate Holder
RUAG Aerospace Services GmbH
P.O.Box 1253
D-82231 Wessling
Federal Republic of Germany

b) Supplemental Type Certificate Holder
GOMOLZIG Flugzeug- und Maschinenbau GmbH
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
5. Manufacturer of STC: GOMOLZIG Flugzeug- und Maschinenbau GmbH
POA Certificate holder No: DE.21G.
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
6. Certification Application Date: 28.07.2010
7. (Reserved) National Certifying Authority
8. (Reserved) National Authority Type Certificate Date:

G.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 28.07.2010
2. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1. February 1965, Amendment 23-1 thru 23-38
3. Special Conditions: None
3. Exemptions: None

4. Deviations: None
5. Equivalent Safety Findings: None
6. Requirements elected to comply: None
7. Environmental Standards: **Noise: ICAO Annex 16, Volume I
(further details refer to EASA noise database)**
Emission: ICAO Annex 16, Volume II, Part II
8. (Reserved) Additional National Requirements:
9. (Reserved)

G.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List G92
2. Description: Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
3. Equipment: Refer to AFM
4. Dimensions: Refer to AFM
5. Engine: Two (2x)
 - 5.1.1 Model: WALTER M 601 D-2 turboprop engines
 - 5.1.2 Type Certificate: EASA.E.070
 - 5.1.3 Limitations: According to AFM and AFM-Supplement Modification 2023625-1950
6. (reserved)
7. Propeller: Two (2x)
 - 7.1 Model: AVIA PROPELLER V508 D-2-99B
 - 7.2 Type Certificate: EASA.P.028
 - 7.3 Number of blades: 3
 - 7.4 Diameter: Diameter 2500 mm
 - 7.5 Sense of Rotation: Right-Hand Tractor
8. Fluids:
 - 8.1 Fuel: Commercial Kerosene Jet A-1
 - 8.2 Oil: Refer to AFM
 - 8.3 Coolant: None
9. Fluid capacities:
 - 9.1 Fuel: Two Main Fuel Tanks
Total: 2 x 452 Litres each, total 904 Litres

	Usable:	2 x 447 Litres each, total 894 Litres
9.2 Oil:	One Engine Oil Tank	
	Maximum:	7,0 Litres, min. 5,5 Litres
	Total Oil in Tank and in Engine max.	11,0 Litres
9.3 Coolant system capacity:	None	
10. Air Speeds:	Design Manoeuvring Speed V_A :	129 KCAS
	Flap Extended Speed V_{FE} :	110 KCAS
	Maximum Operating Speed V_{MO}	155 KCAS
	Minimum Control Speed V_{MC}	65 KCAS
	Min. Safety Speed, Single Engine V_{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft	
12. All-weather Operations Capability:	Refer to AFM	
13. Maximum Weights:	Take-Off:	3 850 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
	Maximum Masses during parachute jumper drop operation only:	
	Take-Off:	4 015 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
14. Centre of Gravity Range:	Aft Limit: 4.036 m (158,9 inches) aft of reference datum at 3850 kg (8,497 lbs) or less.	
	Forward Limit: 3,81 m (148.7 inches) aft of reference datum at 4,015 kg (8,865 lbs), 3,776 m (148.7 inches) aft of reference datum at 3,850 kg (8,497 lbs), 3,656 m (152.9 inches) aft of reference datum at 2,750 kg (6,069 lbs) or less.	
15. Datum:	No Changes to Basic Do 28 D-2	
16. Control surface deflections:	No Changes to Basic Do 28 D-2	
17. Levelling Means:	No Changes to Basic Do 28 D-2	

18. Minimum Flight Crew: 1
19. Maximum Passenger Seating Capacity: 14
For Parachute Jumper Drop Operation: 15
20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)
21. Wheels and Tyres: No Changes to Basic Do 28 D-2
22. (Reserved):

[insert additional rows as applicable]

G.IV. Operating and Service Instructions

13. Flight Manual: DORNIER Do 28G92 Airplane Flight Manual approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions and AFM-Supplement Modification 2023625-1950
14. Technical Manual: DORNIER Do 28D-2 Maintenance Manual
WALTER Maintenance Manual for M 601 D-2 engine
AVIA PROPELLER Operation and Installation Manual – V 508 D-2
3. Repair Manual: None
4. Manual for Operation: None
5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
6. Table of Dimensions, Limits and Clearances: Refer to AFM
7. Instruments and aggregates: None

G.V. Notes:

None

SECTION H: DO28-D2 (DO28-G92-EF-B-1950)

H.I. General

1. Data Sheet No.: 10015031
2. a) Type: Do28
b) Model: Do28-D2
c) Variant: Do28-D2
d) Version (STC): G92-EF-B-1950
3. Airworthiness Category: Normal
4. a) Type Certificate Holder
RUAG Aerospace Services GmbH
P.O.Box 1253
D-82231 Wessling
Federal Republic of Germany

b) Supplemental Type
Certificate Holder
GOMOLZIG Flugzeug- und Maschinenbau GmbH
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
5. Manufacturer of STC: GOMOLZIG Flugzeug- und Maschinenbau GmbH
POA Certificate holder No: DE.21G.
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany
6. Certification Application
Date: 28.07.2010
7. (Reserved) National
Certifying Authority
8. (Reserved) National
Authority Type Certificate
Date:

H.II. EASA Certification Basis

1. Reference Date for
determining the applicable
requirements: 28.07.2010
2. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1.
February 1965, Amendment 23-1 thru 23-38
3. Special Conditions: None

- 3. Exemptions: None
- 4. Deviations: None
- 5. Equivalent Safety Findings: None
- 6. Requirements elected to comply: None
- 7. Environmental Standards: **Noise:** ICAO Annex 16, Volume I
(further details refer to EASA noise database)
Emission: ICAO Annex 16, Volume II, Part II
- 8. (Reserved) Additional National Requirements:
- 9. (Reserved)

H.III. Technical Characteristics and Operational Limitations

- 1. Type Design Definition: Master Drawing List G92
- 2. Description: Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
- 3. Equipment: Refer to AFM
- 4. Dimensions: Refer to AFM
- 5. Engine: Two (2x)
 - 5.1.1 Model: WALTER M 601 D-2 turboprop engines
 - 5.1.2 Type Certificate: EASA.E.070
 - 5.1.3 Limitations: According to AFM and AFM-Supplement Modification 2023625-1950
- 6. (reserved)
- 7. Propeller: Two (2x)
 - 7.1 Model: AVIA PROPELLER V508 D-2-99B
 - 7.2 Type Certificate: EASA.P.028
 - 7.3 Number of blades: 3
 - 7.4 Diameter: Diameter 2500 mm
 - 7.5 Sense of Rotation: Right-Hand Tractor
- 8. Fluids:
 - 8.1 Fuel: Commercial Kerosene Jet A-1
 - 8.2 Oil: Refer to AFM
 - 8.3 Coolant: None
- 9. Fluid capacities:
 - 9.1 Fuel: Two Main Fuel Tanks

	Total:	2 x 452 Litres each, total 904 Litres
	Usable:	2 x 447 Litres each, total 894 Litres
	Two external Fuel Tanks	
	Total:	2x 246 Litres each, total 492 Litres
	Usable:	2x 236 Litres each, total 472 Litres
9.2 Oil:	One Engine Oil Tank	
	Maximum:	7,0 Litres, min. 5,5 Litres
	Total Oil in Tank and in Engine max. 11,0 Litres	
9.3 Coolant system capacity:	None	
10. Air Speeds:	Design Manoevring Speed V_A :	129 KCAS
	Flap Extended Speed V_{FE} :	110 KCAS
	Maximum Operating Speed V_{MO}	155 KCAS
	Minimum Control Speed V_{MC}	65 KCAS
	Min. Safety Speed, Single Engine V_{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft	
12. All-weather Operations Capability:	Refer to AFM	
13. Maximum Weights:	Take-Off:	3 850 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
	Maximum Masses during parachute jumper drop operation only:	
	Take-Off:	4 015 kg
	Landing Mass:	3 650 kg
	Empty Mass:	refer to AFM
14. Centre of Gravity Range:	Aft Limit:	4.036 m (158,9 inches) aft of reference datum at 3850 kg (8,497 lbs) or less.
	Forward Limit:	3,81 m (148.7 inches) aft of reference datum at 4,015 kg (8,865 lbs), 3,776 m (148.7 inches) aft of reference datum at 3,850 kg (8,497 lbs), 3,656 m (152.9 inches) aft of reference datum at 2,750 kg (6,069 lbs) or less.

- 15. Datum: No Changes to Basic Do 28 D-2
- 16. Control surface deflections: No Changes to Basic Do 28 D-2
- 17. Levelling Means: No Changes to Basic Do 28 D-2
- 18. Minimum Flight Crew: 1
- 19. Maximum Passenger Seating Capacity: 14
For Parachute Jumper Drop Operation: 15
- 20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)
- 21. Wheels and Tyres: No Changes to Basic Do 28 D-2
- 22. (Reserved):

[insert additional rows as applicable]

H.IV. Operating and Service Instructions

- 15. Flight Manual: DORNIER Do 28G92 Airplane Flight Manual approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions and AFM-Supplement Modification 2023625-1950
- 16. Technical Manual: DORNIER Do 28D-2 Maintenance Manual
WALTER Maintenance Manual for M 601 D-2 engine
AVIA PROPELLER Operation and Installation Manual – V 508 D-2
- 3. Repair Manual: None
- 4. Manual for Operation: None
- 5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
- 6. Table of Dimensions, Limits and Clearances: Refer to AFM
- 7. Instruments and aggregates: None

H.V. Notes:

External fuel tanks have to be removed for parachute jumper drop operation.

ADMINISTRATIVE SECTION

I. Acronyms

II. Type Certificate Holder Record

Dornier Luftfahrt GmbH
LBA Approved Design Organisation
Certificate No.: LBA.JA.002
D-82230 Wessling
Federal Republic of Germany

*01 June 2000 –
27 July 2003:*

Fairchild Dornier GmbH
LBA DOA Certificate No.: LBA.JA.002
D-82230 Wessling
Federal Republic of Germany

Since 28 July 2003:

RUAG Aerospace Services GmbH
DOA Certificate No: EASA.21J.038
Oberpfaffenhofen Airfield
P.O. Box 1253
D-82231 Wessling
Federal Republic of Germany

III. Supplemental Certificate Holder Record

Gomolzig Flugzeug- und Maschinenbau GmbH
DOA Certificate No: EASA.21J.274
Eisenwerkstr. 9
D-58332 Schwelm
Federal Republic of Germany

IV. Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 01	19 Feb 2008	Initial Issue	EASA.A.S.03343
Issue 02	04 Apr 2008	Corrections	EASA.A.S.03343
Issue 03	30 Nov 2010	New (S)TCDS Format, adding of new Propeller Types, corrections and adding Manufacturer	10015031 30 Nov 2010