

## OPTIONAL SERVICE BULLETIN

OSB 42-078

OSB 42NG-008

### **I TECHNICAL DETAILS**

#### **I.1 Category**

Optional.

#### **I.2 Airplanes affected**

Type: DA 42, DA 42 M, DA 42 NG, DA 42 M-NG  
Serial numbers: 42.004 and subsequent  
42.AC001 and subsequent  
42.M001 and subsequent  
42.N001 and subsequent  
42.MN001 and subsequent

#### **I.3 Date of effectivity**

22-Apr-2010

#### **I.4 Time of Compliance**

At owner's discretion.

#### **I.5 Subject**

Installation of a coated safety walk.

ATA-Code: 11-20

#### **I.6 Reason**

An optional painted safety walk for the DA 42 Series has been developed which withstands extreme weather conditions. With this Service Bulletin the retrofit installation of the coated Safety Walk is possible on aircraft already in operation.

#### **I.7 Concurrent Documents**

None.

### **I.8 Approval**

The technical information or instructions contained in this document relate to the Design Change Advisory No. OÄM 42-187, which has been approved under the authority of EASA Design Organization Approval ref. EASA.21J.052.

The technical content of this document has been approved under the authority of DOA ref. EASA.21J.052.

This Service Bulletin is in compliance with AD A-2005-003 4. C. i).

### **I.9 Accomplishments / Instructions**

Comply with WI-OSB 42-078 / WI-OSB 42NG-008, latest effective issue.

### **I.10 Mass (Weight) and CG**

Negligible.

## **II PLANNING INFORMATION**

### **II.1 Material and Availability**

See WI-OSB 42-078 / WI-OSB 42NG-008, latest effective issue.

### **II.2 Special Tools**

None.

### **II.3 Labour Effort**

Approx. 4 hours.

### **II.4 Credit**

None.

### **II.5 Reference Documents**

Diamond Aircraft DA 42 Series Airplane Maintenance Manual, Doc. No. 7.02.01, latest effective issue.

Diamond Aircraft 42 NG Airplane Maintenance Manual, Doc. No. 7.02.15, latest effective issue.

### **III REMARKS**

- a) The work must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic.
- b) All works, particular those that are not especially described in this work instruction, must be carried out in accordance with the referenced maintenance manual.
- c) In case of doubt, contact Diamond Aircraft Industries GmbH.

**EXECUTION REPORT TO  
SERVICE BULLETIN  
OSB 42-078  
OSB 42NG-008**

## AIRPLANE DATA

Airplane Serial Number: \_\_\_\_\_

Airplane Registration: \_\_\_\_\_

Airplane Operator: \_\_\_\_\_

Hours of operation of airplane: \_\_\_\_\_

No. of landings: \_\_\_\_\_

Hours of operation-engine \_\_\_\_\_

Typical operation of airplane: private, club, training, other \_\_\_\_\_

\_\_\_\_\_  
Date, Name, SignPlease fax the completed form to Fax No. +43-2622-26700-1369 or e-mail to  
airworthiness@diamond-air.at

# WORK INSTRUCTION

WI-OSB 42-078

WI-OSB 42NG-008

„ Coated Safety Walk “

## **I GENERAL INFORMATION**

### **I.1 Subject:**

Installation of Safety Walk by coating with non slip paint on DA 42, Series Aircraft.

### **I.2 Reference Documents:**

Diamond Aircraft DA 42 Series Airplane Maintenance Manual, Doc. No. 7.02.01, latest effective issue.

Diamond Aircraft DA 42 NG Airplane Maintenance Manual, Doc. No. 7.02.15, latest effective issue.

### **I.3 Remarks:**

- a) The work must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic.
- b) All works, particular those that are not especially described in this work instruction, must be carried out in accordance with the referenced maintenance manual.
- c) The work must be performed in Workshop conditions, acc. to Airplane Maintenance Manual Section 51-00.
- d) In case of doubt, contact Diamond Aircraft Industries GmbH.
- e) It is recommended to print this Work Instruction in color.

## **II DRAWINGS, SPECIAL TOOLS & MATERIALS**

### **II.1 Drawings:**

D60-1120-20-00X03

### **II.2 Special Tools:**

Safety Walk Substrate Sprinkler      P/N: DAI-9011-20-03\_LV

Plastic Spattle      commercial

### **II.3 Material:**

Quantity	Part No.	Description
1	D60-1120-20-01_LV	Safety Walk masking foil LH
1	D60-1120-20-02_LV	Safety Walk masking foil RH
3	22101980	Fill-in 2 K 400ml RAL 7038
0,5 kg (1.1 lb)	DAI-9011-20-03	Safety Walk Substrate


Materials including special tools are available from Diamond Aircraft Industries.




### **II.4 Consumable Material:**

Quantity	Part No.	Description
a. r.	40 325 0 632	Sandpaper grit 320
a. r.	40 720 0 47	Red Scotch-Brite
a. r.	N000 146	Silicon remover
a. r.	N000 148	Acetone
a. r.	29003/C86/C10	Socomore® Dienstone DLS Satwipes

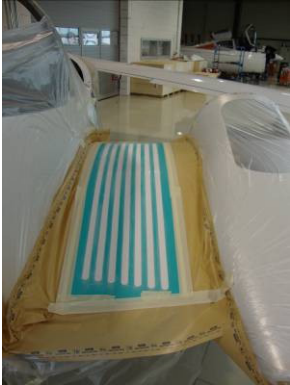

Consumable materials may be procured locally or from Diamond Aircraft Industries


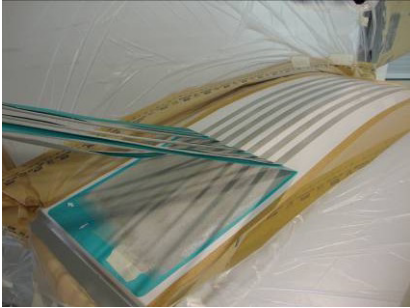
### III INSTRUCTIONS

1	<p>Remove the old Safety Walk: Warm up the old Safety Walk with a heat gun. Start removing the Safety Walk by lifting up from one corner. Carefully pull off the Safety Walk.</p> <p><b>CAUTION:</b> Do not exceed 60° Celsius (140°F) surface temperature.</p>
2	<p>Remove the adhesives layer of old Safety Walk from surface. Use fresh acetone or Socomore® cleaning cloth (P/N 29003/C86/C10) to remove the old adhesive layer.</p> <p><b>NOTE:</b> Do not use cleaning or polishing agents which contain silicone.</p> <p><b>WARNING:</b> When handling chemicals always observe Health and Safety Regulations given by the manufacturer of the chemicals.</p>
3	<p>Clean the entire area between fuselage and nacelle. Use water to remove dirt from the surface. If necessary, add a mild cleaning agent to the water. Refer to AMM Section 12-30.</p>
4	<p>Use a commercial solvent to remove grease from the surface. The surface must be totally clean from grease or dirt.</p>
5	<p>Place the Safety Walk masking foil on the Center Wing according to photograph and mark the position with a pencil on the middle wing surface.</p> 
6	<p>Make visual inspection that masking foil orientation is parallel to flight direction.</p>

7	<p>Remove the protective layer from the Safety Walk masking foil.</p> 
8	<p>Positioning the Safety Walk masking foil according to the markings on middle wing (don't use soap water) and remove the transfer foil smoothly.</p>
9	<p>Remove air bubbles from the edges of the cutouts with the aid of a plastic spatula.</p> 
10	<p>Prepare the surface in the cutouts of the Safety Walk masking foil by carefully roughening the paint with sandpaper (grit 320). Prepare the ends of strips cut out with red Scotch-Brite.</p> 
11	<p>Clean the surface of Safety Walk cutouts with vacuum and silicone remover.</p>

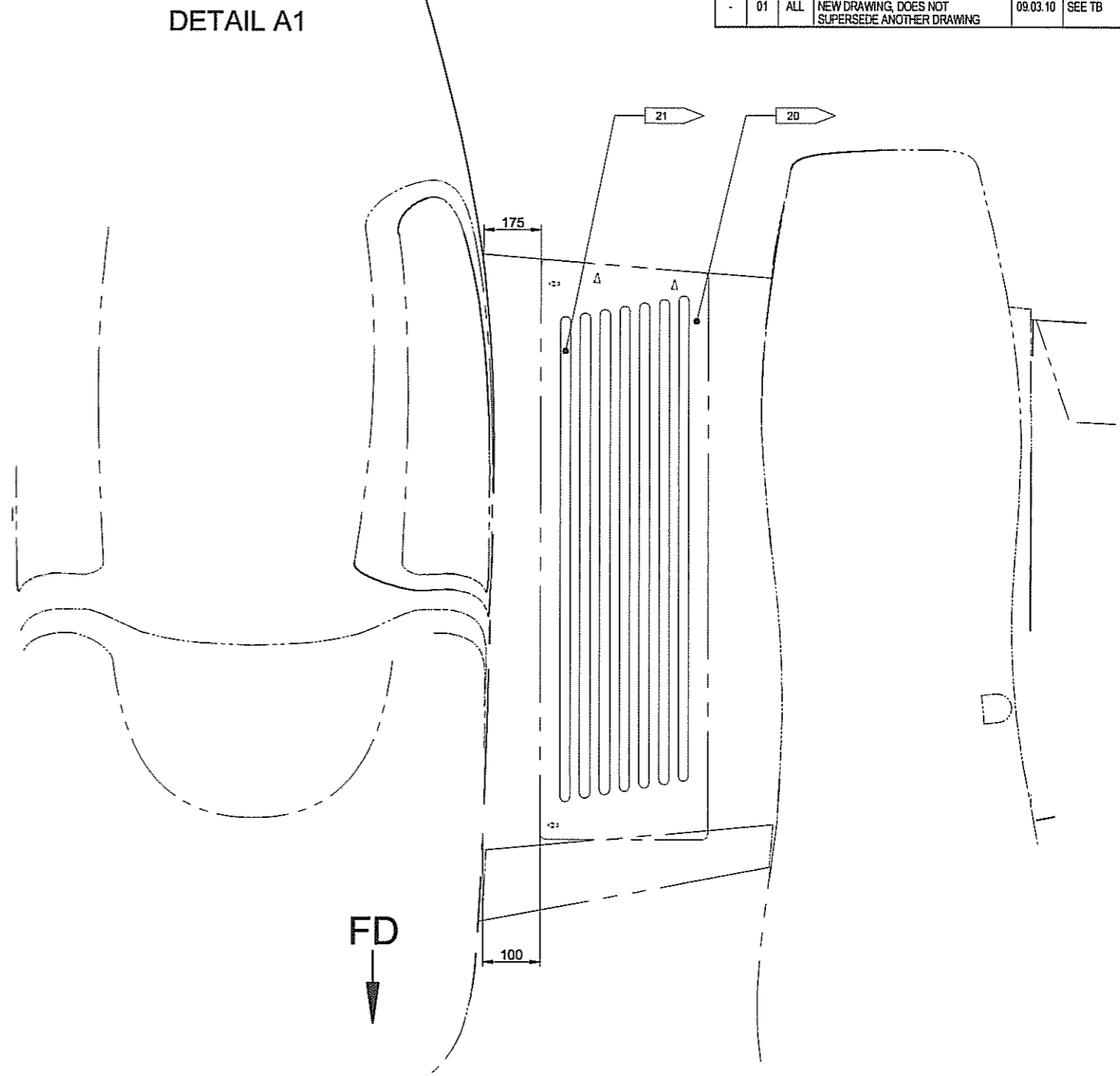
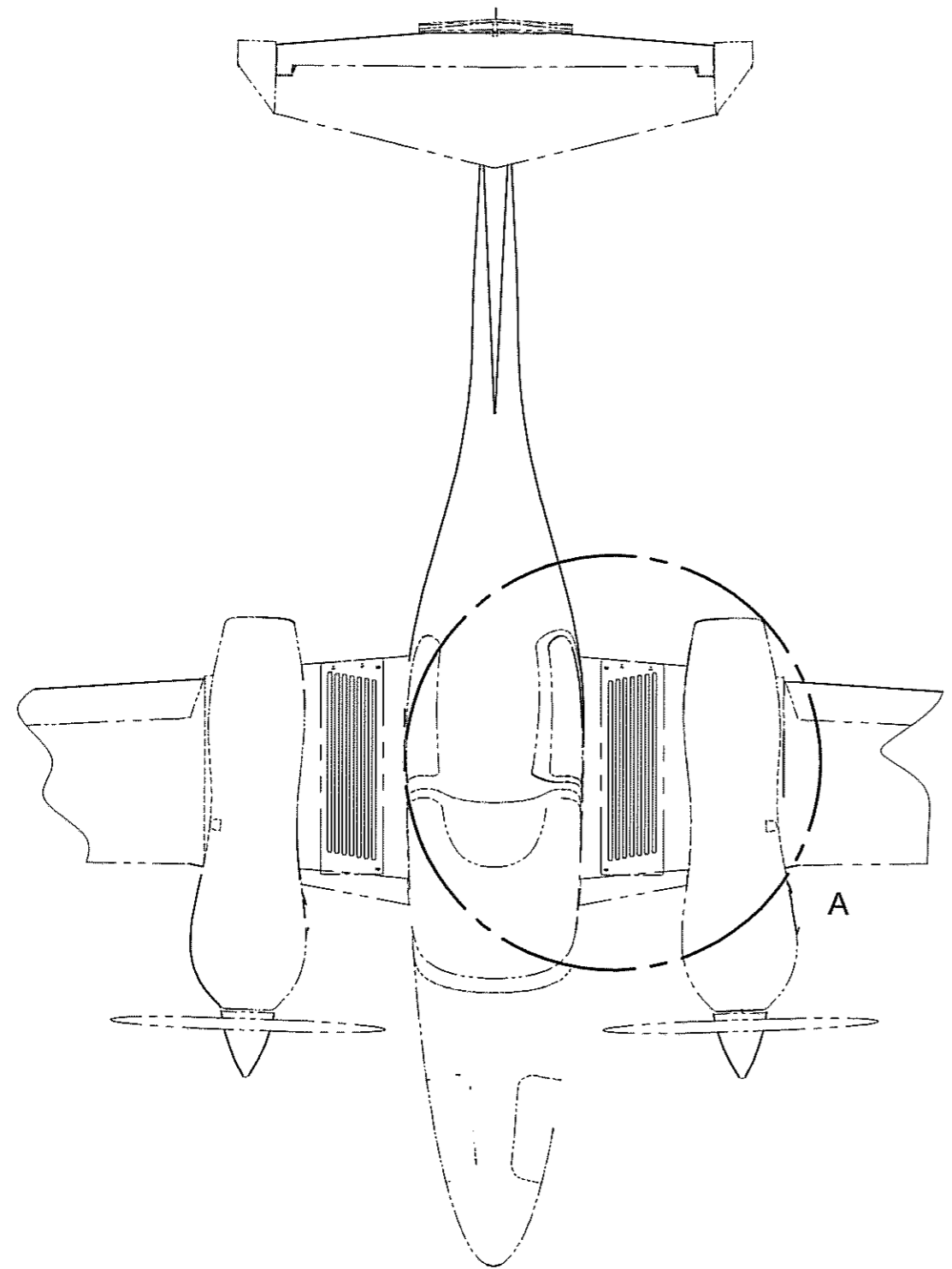


12	<p>Cover the surface around the Safety Walk masking foil.</p> 
13	<p>Prepare lacquer P/N 22101980 in acc. with the technical information sheet. Shake 2 minutes before and after operating the red button. Press red button with the ball of your hand until stop is reached.</p>
14	<p>Spray a thick film into the cutouts of the Safety Walk masking foil.</p>
15	<p>Use Safety Walk Substrate Sprinkler P/N DAI-9011-20-03-LV to apply the Safety Walk Substrate P/N DAI-9011-20-03 evenly over cutouts.</p> 

16	<p>Apply a second layer of lacquer P/N 22101980 Make sure the whole substrate is evenly covered with a sufficient amount of paint.</p> 
17	<p>Carefully pull off the Safety Walk masking foil starting from one edge. Remove the cover in direction of the strips.</p> 
18	<p>Let the system dry for 12h in a dry, weather protected area at temperatures from 20°C (68°F) to 30°C (86°F).</p>
19	<p>Remove the covering from the surface.</p>
20	<p>Clean the working area and check for foreign objects.</p>
21	<p>Make necessary entries into aircraft logs.</p>

REVISION					
REV	SH	ZONE	DESCRIPTION	DATE	APPROVAL
-	01	ALL	OAM 42-187 NEW DRAWING, DOES NOT SUPERSEDE ANOTHER DRAWING	09.03.10	SEE TB

DETAIL A1



**GENERAL NOTES**  
 1. DIMENSIONS AND FURTHER INFORMATIONS SHOWN  
 ON DRAWING D60-1120-20-00\_2  
 REFER TO LAST VALID REVISION.

**FLAG NOTES**

20 → D60-1120-20-01LV  
 D60-1120-20-02LV

21 → PAINT ACCORDING TO  
 DPS 14 CHAPTER 4

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 OR DISCLOSED TO THIRD PARTIES WITHOUT THE PRIOR WRITTEN CONSENT OF  
 DIAMOND AIRCRAFT INDUSTRIES

<b>DIMENSIONS METRIC</b> FIRST ANGLE PROJECTION 		<b>IDENTIFICATION MARKINGS</b> DE-S-10-00003 CLASSIFICATION: NONE INTERCHANGEABLE PART: NO THIS DRAWING WAS PRODUCED USING: SOLID EDGE V18 FILENAME: D60-1120-20-00X03.dft		Diamond Aircraft Industries N. A. Otto-Straße 5 A-2700 Wiener Neustadt	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM DIMENSION TOLERANCES 2 DECIMAL ±0,25 1 DECIMAL ±0,5 ANGLE ±1° RAD ±0,5 FINISH IN MICRO-METER 3.2		DEPARTMENT: SIGN: DATE: 09.03.10 DRAWN: S. Posch CHECKED: M. Volck QA: N/A STRESS: N/A MANUF.: N/A SYSTEM: N/A APPROVED: C. Jütte		PROJECT: DA 42 TWIN TITLE: <b>COATED SAFETY WALK</b> DWG. ORIG: DAIA DWG. NO: D60-1120-20-00X03 CODE: 710197 SCALE: 1:30 SH: 01 OF 01	