



2699, 5^e Avenue, Local 14,
Shawinigan, Qc, Canada
G9T 2P7
Telephone (819) 533-5788
Fax (819) 533-3494

CAGE CODE 3AR20

DK-582-ISI-001
Rev. 4

Installation Instructions

Robinson R22 & R44 Helicopter Floor Protectors

2022-11-02

PROPRIETARY RIGHT

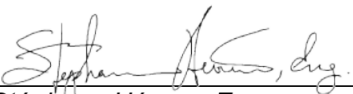
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APPROVAL / SIGNATURE

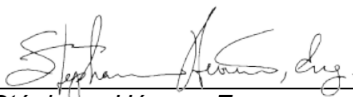
Prepared:  LM

Ricardo Leonel Murguia
Mechanical Engineering Technician

Date: 2022-01-12

Checked: 
Stéphane Héroux, Eng.
Mechanical Engineer


Date: 2022-01-12

Approved: 
Stéphane Héroux, Eng.
Mechanical Engineer



Date: 2022-01-12

REVISION LOG

REV.	DATE	REVISED BY	APPROVED BY	PAGES AFFECTED	REMARKS
NC	2006-03-11		DAR 310	All	Initial release
1	2022-01-12	Ricardo Leonel Murguia	S. Héroux, Eng.	All	See explanation Below
2	2022-01-28	Ricardo Leonel Murguia	S. Héroux, Eng.	All	See explanation Below
3	2022-04-08	Ricardo Leonel Murguia	S. Héroux, Eng.	14	See explanation Below
4	2022-11-02	Thierry Fokam		10, 11, 12, 13	Figure 1, Figure 2, Table 2 and Table 3 updated

Revision NC:

Initial Installation Instructions prepared by Helico design in 2006-03-11
 Report: ISI-R-22/44-1000 REV NC available in Delastek archive.

Revision 1:

The STC Holder changed. Was Helico Design. Now is Delastek.

Revision 2:

The document name changes form ISI-R-22/44-1000 to DK-582-ISI-001
 The template changes to conform to Delastek standards.

Revision 3:

The installation weight for the complete kits changes. Was 3 Lb for R44 and 1.5 Lbs for R22.
 Now is 3.3 Lbs for R44 and 1.7 Lbs for R22.

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LIST OF ABBREVIATION AND ACRONYMS

- FAA: Federal Aviation Administration
- L/H: Left-hand
- R/H: Right-hand
- STC: Supplemental Type Certificate
- TCCA: Transport Canada
- TCDS: Type Certificate Data Sheet
- TEL: Telephone

1 INTRODUCTION

1.1 PURPOSE OF THE DOCUMENT

The purpose of this document is to describe the method to install the Delastek Floor Protectors in helicopters Robinson R22 and R44

1.2 General

The Delastek Floor Protection system is made of molded LEXAN, a polycarbonate sheet widely used in aerospace applications. This material combines high-impact performance with good stiffness over a wide range of temperature of -40°F up 200°F. Its high durability will provide superior protection to your Robinson helicopter. Any question regarding the Delastek floor protection system shall be directed to:

DELASTEK
Customer Support
2699 5e Avenue, Local 14
Shawinigan, Qc, Canada
G9T 2P7

TEL: (819) 533-5788
FAX: (819) 533-3494

1.3 Applicability

This installation instruction applies to the following Robinson Helicopters:

Table 1 - Applicability

A/C Model	Ser #	TCDS
R22	0002 thru 0300 0302 thru 0349 0352 thru 0356	H10WE Rev 17 2020-10-30
R22 Alpha	0301, 0350, 0351 0357 thru 0500, excluding 0364	H10WE Rev 17 2020-10-30
R22 Beta	0501 and subsequent	H10WE Rev 17 2020-10-30
R22 Mariner	0364, 0501 and subsequent (Suffix "M" added to all Mariners)	H10WE Rev 17 2020-10-30
R44	002, 0004 thru 9999 except 1140, 30001 and subsequent.	H11NM Rev 10 2020-10-06
R44 II	1140, 10001 thru 29999.	H11NM Rev 10 2020-10-06

2 APPLICABLE DOCUMENTS

This section lists the related documents.

2.1 Delastek Documents

- DK-582-010 ROBINSON R44 FLOOR PROTECTORS
INSTALLATION Drawing
- DK-582-020 ROBINSON R22 FLOOR PROTECTORS
INSTALLATION Drawing

2.2 Government and Other Documents

- TCDS H10WE FAA, TYPE CERTIFICATE DATA SHEET Robinson R22,
R22 ALPHA, R22 BETA, R22 MARINER, REVISION 17
2020-10-30
- TCDS H11NM FAA, TYPE CERTIFICATE DATA SHEET Robinson R44 and
R44 II, REVISION 10
2020-10-06
- TCDS H97 TCCA, TYPE CERTIFICATE DATA SHEET Robinson R44
and R44 II, Issue no 8
2017-05-18
- R22 Maintenance Manual R22 Maintenance Manual and Instructions for Continued
Airworthiness
- R44 Maintenance Manual R44 Maintenance Manual and Instructions for Continued
Airworthiness

3 INSTALLATION INSTRUCTIONS

3.1 Initial Aircraft Preparation

- Ensure the rotorcraft is safe for maintenance;
- Clean up the helicopter floor and carpet and ensure that all carpets are free for visible dirt;
- Clean the helicopter L/H and R/H middle console in the pedal areas to remove any dirt and grease.

3.2 Installation of Floor Protectors

- Clean each side of the forward lower portion of the center console side wall with isopropyl alcohol. Refer to Robinson floor protectors' installation drawings below.
- Bond the loop fasteners as indicated in the installation drawings below.
- Unpack floor protectors; ensure that all floor protectors are free from visible damage or cracks.
- Install each floor protector on proper side as shown in installation drawings below.
- Install the button extension with double sided tape. Prior bonding, clean surfaces with isopropyl alcohol.
- Ensure the floor protectors are properly secured.

Figure 1 - ROBINSON R22 FLOOR PROTECTORS INSTALLATION Drawing

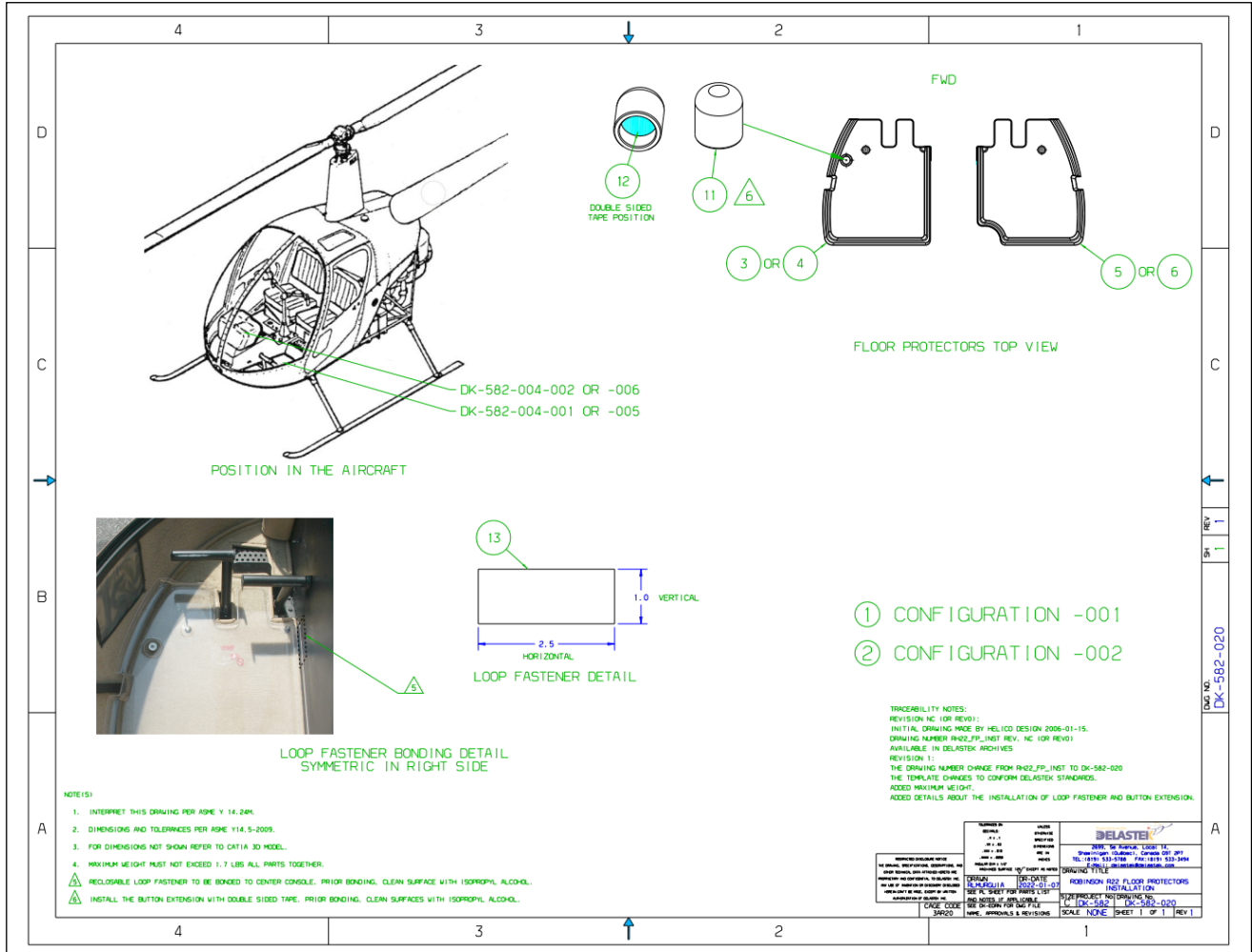


Table 2 - ROBINSON R22 FLOOR PROTECTORS INSTALLATION Part List


 2699, 5e Avenue, Local 14, Shawinigan (Québec), Canada G9T 2P7 TEL: (819) 533-5788 FAX: (819) 533-3494 E-Mail: delastek@delastek.com				DRAWN BY: RLMURGUJA	SHEET 1 OF 1	PL DK-582-020	REV 1
TITLE ROBINSON R22 FLOOR PROTECTORS INSTALLATION							
CAGE CODE: 3AR20							
QTY PER	REQ'D PER	FIND NO.	ZONE SHEET	PART, DASH OR IDENTIFYING NO.	DESCRIPTION	MATERIAL SPEC	
RH	LH						
				FOR EARLIER DRAWING SEE RH22_FP_INST	REV. NC (OR REV0)		
		1		DK-582-020-001	ROBINSON R22 FLOOR PROTECTORS INSTALLATION		
		1	3	DK-582-004-001	LH FWD FLOOR PROTECTO FOR ROBINSON R22 ASSY CLEAR		
1		5		DK-582-004-002	RH FWD FLOOR PROTECTO FOR ROBINSON R22 ASSY CLEAR		
		1	11	DK-582-005-001	INTERCOM BUTTON EXTENSION FOR ROBINSON HELICOPTER	ALUMINUM 6061-T6	
	AR	12		AIRHOLD 1 CBS	DOUBLE-BACKED HOLDING TAPE	AIRTECH AIRHOLD 1 CBS	
AR	AR	13		SJ3518FR	FLAME RESISTANT LOOP FASTENER	3M SJ3518FR	
			2	DK-582-020-002	ROBINSON R22 FLOOR PROTECTORS INSTALLATION		
		1	4	DK-582-004-005	LH FWD FLOOR PROTECTO FOR ROBINSON R22 ASSY		
1		6		DK-582-004-006	RH FWD FLOOR PROTECTO FOR ROBINSON R22 ASSY		
		1	11	DK-582-005-001	INTERCOM BUTTON EXTENSION FOR ROBINSON HELICOPTER	ALUMINUM 6061-T6	
	AR	12		AIRHOLD 1 CBS	DOUBLE-BACKED HOLDING TAPE	AIRTECH AIRHOLD 1 CBS	
AR	AR	13		SJ3518FR	FLAME RESISTANT LOOP FASTENER	3M SJ3518FR	

Figure 2 - ROBINSON R44 FLOOR PROTECTORS INSTALLATION Drawing

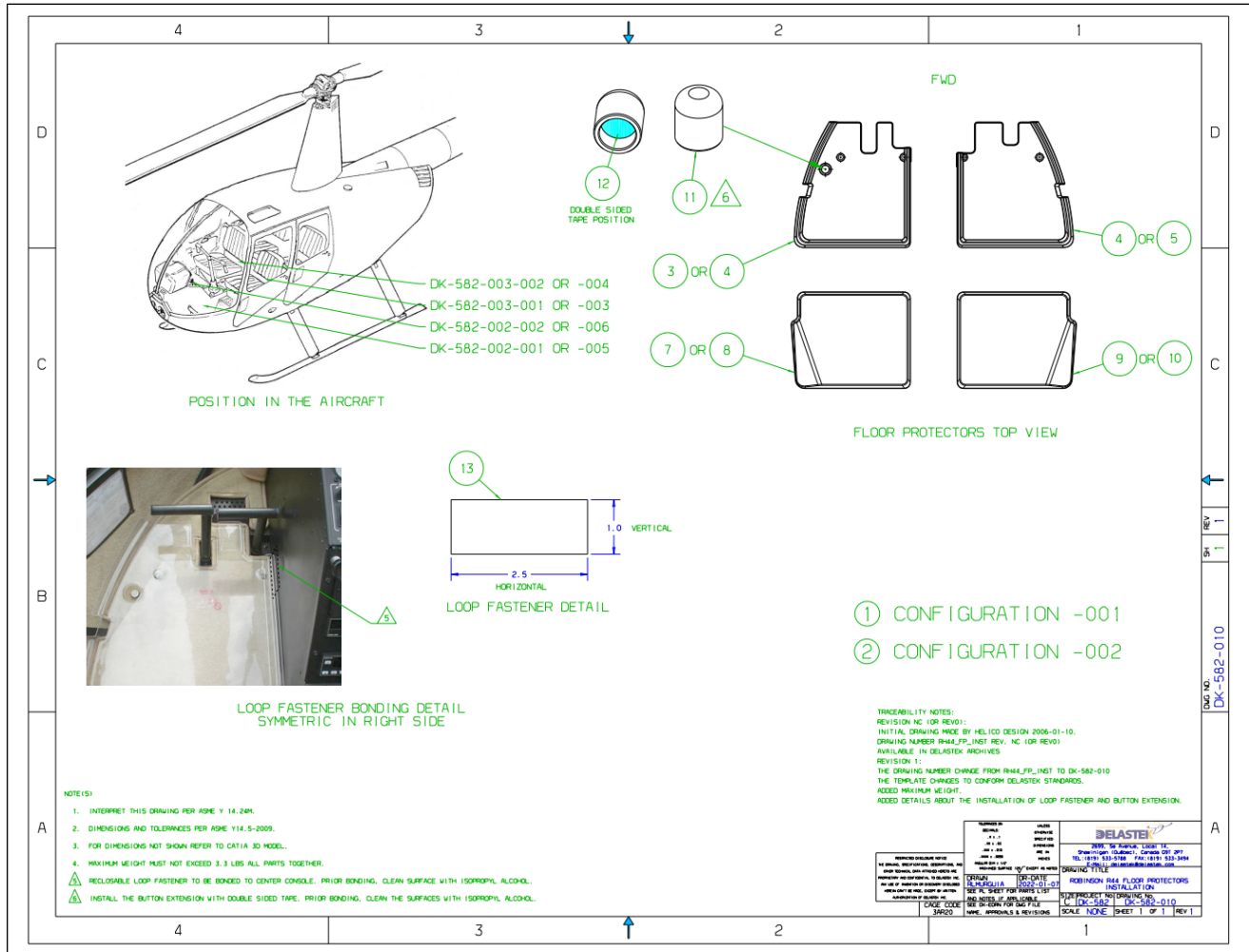



Table 3 - ROBINSON R44 FLOOR PROTECTORS INSTALLATION Part List

 2699, 5e Avenue, Local 14, Shawinigan (Québec), Canada G9T 2P7 TEL: (819) 533-5780 - FAX: (819) 533-3494 E-Mail: delastek@delastek.com				DRAWN BY: RLMURGUIA		SHEET 1 OF 1		PL DK-582-010		REV 1	
				TITLE ROBINSON R44 FLOOR PROTECTORS INSTALLATION							
				CAGE CODE: 3AR20							
QTY REQ'D PER	FIND NO.	ZONE SHEET	PART, DASH OR IDENTIFYING NO.	DESCRIPTION				MATERIAL SPEC			
RH	LH										
				FOR EARLIER DRAWING SEE RH44_FP_INST REV. NC (OR REV0)							
		1	DK-582-010-001	ROBINSON R44 FLOOR PROTECTORS INSTALLATION							
	1	3	DK-582-002-001	LH FWD FLOOR PROTECTO FOR ROBINSON R44 ASSY CLEAR							
1		5	DK-582-002-002	RH FWD FLOOR PROTECTO FOR ROBINSON R44 ASSY CLEAR							
	1	7	DK-582-003-001	LH AFT FLOOR PROTECTO FOR ROBINSON R44 CLEAR				LEXAN 9604 0.06" THK			
1		9	DK-582-003-002	RH AFT FLOOR PROTECTO FOR ROBINSON R44 CLEAR				LEXAN 9604 0.06" THK			
	1	11	DK-582-005-001	INTERCOM BUTTON EXTENSION FOR ROBINSON HELICOPTER				ALUMINUM 6061-T6			
	AR	12	AIRHOLD 1 CBS	DOUBLE-BACKED HOLDING TAPE				AIRTECH AIRHOLD 1 CBS			
AR	AR	13	SJ3518FR	FLAME RESISTANT LOOP FASTENER				3M SJ3518FR			
		2	DK-582-010-002	ROBINSON R44 FLOOR PROTECTORS INSTALLATION							
	1	4	DK-582-002-005	LH FWD FLOOR PROTECTO FOR ROBINSON R44 ASSY							
1		6	DK-582-002-006	RH FWD FLOOR PROTECTO FOR ROBINSON R44 ASSY							
	1	8	DK-582-003-003	LH AFT FLOOR PROTECTO FOR ROBINSON R44				LEXAN F6000 SERIES .06"THK ANY COLOR			
1		10	DK-582-003-004	RH AFT FLOOR PROTECTO FOR ROBINSON R44				LEXAN F6000 SERIES .06"THK ANY COLOR			
	1	11	DK-582-005-001	INTERCOM BUTTON EXTENSION FOR ROBINSON HELICOPTER				ALUMINUM 6061-T6			
	AR	12	AIRHOLD 1 CBS	DOUBLE-BACKED HOLDING TAPE				AIRTECH AIRHOLD 1 CBS			
AR	AR	13	SJ3518FR	FLAME RESISTANT LOOP FASTENER				3M SJ3518FR			

3.3 Weight & Balance Amendment

- Update as required, the aircraft's empty weight and balance data to reflect the floor protectors installation.

Table 4 - Longitudinal Center of Gravity.

Component	Weight (lbs)	Arm X (in)	Moment (in-lbs)
R22 FULL KIT INSTALL	1.7	70.0	119.0

Component	Weight (lbs)	Arm X (in)	Moment (in-lbs)
R44 FULL KIT INSTALL	3.3	49.5	163.4

- Lateral Center of Gravity variation is negligible.

3.4 Inspection & Maintenance

- Before Each flight:
 - Before each flight the floor protector shall be visually inspected to ensure adequate positioning.
- Annual Inspection:
 - Combined with the rotorcraft annual inspection the floor protector shall be inspected for general condition and damage.
- Allowable Damage:
 - Wear scratches are acceptable until considered esthetically unacceptable.
 - Any thought the thickness cracks are unacceptable. Unit replacement is required.
- Cleaning:
 - The Delastek Floor Protectors can be cleaned as required using a mild soap and a nonabrasive cloth.