

EU Declaration of Conformity No. SAR/D001



Specialist Access & Rescue
Products Ltd.

This declaration of conformity is issued by Specialist Access & Rescue Products Ltd.
Of Sarena House, Vulcan Street, Oldham, OL1 4LQ

We hereby declare that:

Equipment: A-B Descender
Models: RA002

is in conformity with PPE EU Regulations 2016/425, as well as the applicable requirements of
the following standards (where applicable)

Ref No.

EN341-B:1993
EN12841-C:2006

Notified body: SGS FIMKO OY, Takomotie 8, FI-00380 Helsinki, Finland.
Notified Body No: CE 0598

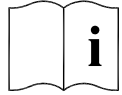
Performed the EU type examination and issued the EC type examination certificate number:

GB06/68096

The PPE is subject to the conformity assessment procedure. Conformity to type based on quality
assurance of the production process module D. Under the surveillance of the above Notified Body.

Signed by:

Name: Lee Allport
Position: Operations Director
Done At: SAR Products - Sarena House, Vulcan Street, Oldham, OL1 4LQ
On: 17/10/18



Specialist Access & Rescue Products Ltd.
Sarena House, Vulcan Street,
Oldham, OL1 4LQ

A-B Descender

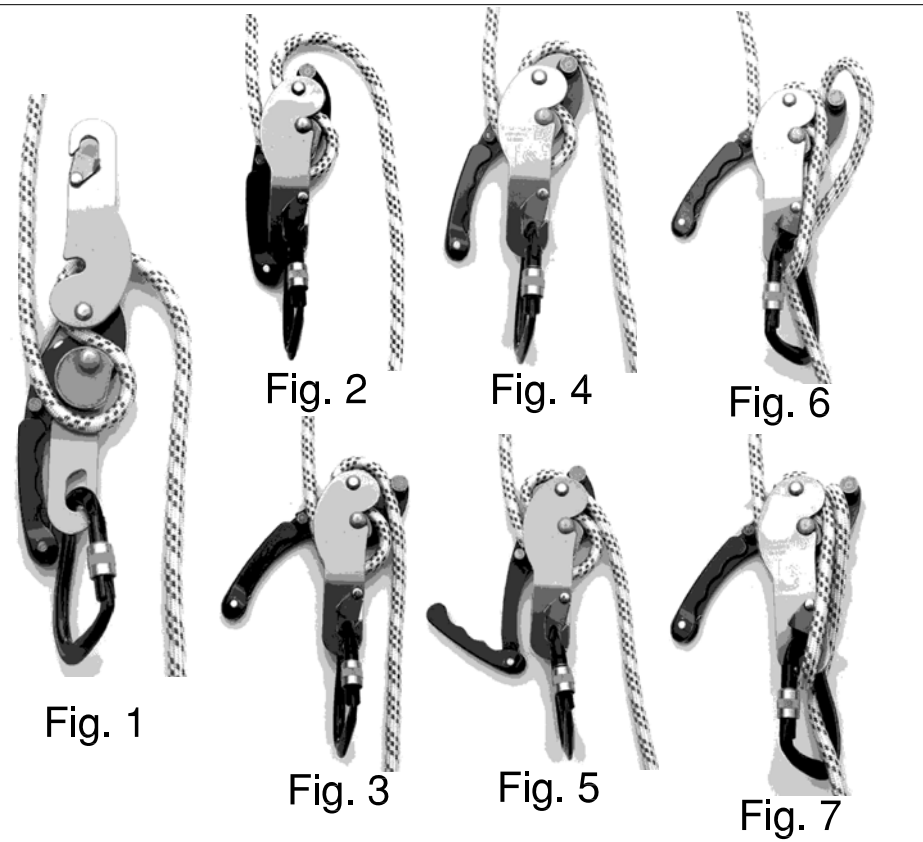
Instruction for use

- EN 12841-C -
Rope access systems
Rope adjustment devices

- EN 341-B -
Descender devices



Serial No:



CERTIFICATE OF CONFORMITY
WE CERTIFY THAT THE SAR A-B DESCENDER CONFORMS TO
EN12841-C Rope Adjust Devices & EN341-B Descender for Rescue

Signature:.....for SAR products Ltd Dave Allport

Periodical check
Controllo periodico
Examen periodique
Periodische Kontrolle
Revisión Periódica

Date - Data - Date - Datum - Fecha

2.	3.
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Ground (periodical check)
Motivo (controllo periodico)
Motif (examen periodique)
Grund (periodische Kontrolle)
Motivos (revisión periódica)

Any defect found or any other pertinent information
Difetti verificati, così come ogni altra informazione pertinente
Défauts remarqués ainsi que toute autre information pertinente
Fehler gefunden jede andere gehoerige Information
Defectos detectados o cualquier otra información pertinente

Name and signature of the competent person
Nome e firma della persona competente
Nom et signature de la personne compétente
Name und Unterschrift der Person, die kompetent ist
Nombre y Firma de la persona autorizada

Expected date for the following check
Data previsto per il controllo successivo
Date du prochain examen periodique prévu
Erwartetes Datum der naechste Kontrolle
Fecha prevista para la próxima revisión

EN

IMPORTANT:
In order to ensure optimum safety and performance, please study and understand these instructions before using the product.

The A-B DESCENDER is a DESCENDER designed specifically for Technical Rope Access and Intervention purposes by Police and Special Forces, who require a multi-use rope adjustment device that allows taking the load of two people for the purposes of rescue and with a Panic Grab Brake (PGB). In Technical Access it must always be used in conjunction with an EN12841 Type A device or EN353-2 back-up device's this is not always required in Intervention or Rescue.

FUNCTIONS: The A-B DESCENDER can be used in the following ways but SAR recommend that users be trained in its many uses and learn about its practical and physical strengths and weaknesses.

- Controlled descent with PGB engaged.
- Controlled speed descent - PGB disengaged.
- Ascender.
- Hauling system brake.
- Tensioned line brake.
- Work positioning adjustment element.

TESTING: The A-B DESCENDER was tested to EN12841-C Rope Adjustment Devices using 10.5mm x 22 plait Singing Rock route 44, 11mm SAR & 12.5mm 20 plait Cousin ropes. This allows all other sizes between these to be acceptable. Users must be aware that rope conditioning such as wet, snow, ice, dirt, etc., different diameters and rope manufacturers will all produce differing results to any testing or use undertaken.

IMMEDIATELY PRIOR TO USE: Check your A-B DESCENDER for any damage or malfunction. Do this prior to and immediately after all use. If there is any doubt about the safe condition of the A-B DESCENDER it should be withdrawn from use and inspected by a competent person recommended by the manufacturer or returned to the manufacturer. A record of inspections should be completed at regular intervals dependent on usage. It is recommended that a minimum yearly examination be carried out by a competent person.

CLEANING: Keep the product clean and dry. Remove any excess moisture with a clean cloth then allow to dry naturally in a warm room away from direct heat. First, rinse in clean cold water. Clean off tar based products with appropriate petroleum solvents following the instructions for use for such products. Afterwards wash, rinse and dry as described above.

CHEMICALS: Avoid all contact with any chemicals which could affect the performance of the product, e.g. these include all acids and strong caustic substances (e.g. vehicle battery acid, bleach, etc.). If used in a marine environment always rinse the product in clean cold water after each use and thoroughly dry.

LUBRICATION: After cleaning and drying and before storing, metal components, particularly those with moving parts should be lubricated sparingly using a light oil, or they may be lightly greased making sure that lubrication does not come into contact with any parts that rely on friction with rope.

STORAGE: After any necessary cleaning dry completely, store packed in a dry place in a chemically neutral environment away from excessively high humidity, corrosives or other possible causes of damage. Do not store wet.

TRANSPORTATION: Care should be taken to protect the equipment against risks such as those detailed under Lifespan. SAR recommend that the A-B Descender is carried on the side gear loops of the harness when not in use.

LIFESPAN: It is difficult to estimate this but as a guide we advise as follows: Maximum life indefinite. However working life will be reduced through age, general wear and tear, damage to component parts, inappropriate ancillary equipment, high impact load, prolonged exposure to corrosive atmosphere or chemical agents or failure to store and maintain as recommended. This statement does not remove the need for users to check these items before and after every use, and retire the device if it is not in a satisfactory condition, or taken out of service by a competent person. This list is not exhaustive.

EXPLANATION OF MARKING:
CE marking: is in conformity with PPE EU Regulations 2016/425. Includes four digit number of notified body monitoring the quality system.

Conforms to EN12841 type C Rope Adjustment Devices and EN341 type B Descender for rescue.
ID No: Batch or serial number.
Rope Threading Diagram

NOTIFIED BODY:
SGS FILMKO OY, Takomitie 8, FI-00380 Helsinki, Finland.
Notified Body No: 0598

NOTE: All friction brakes create heat which can damage rope if a fall has taken place or on a long fast descent. Any strength quoted is when the product is tested new and is in accordance with the appropriate standards.

The A-B DESCENDER has been tested by the NOTIFIED BODY (SGS) TEST CENTRE in a simulated rescue fall using a 200kg mass as required by EN12841-C on a one metre sling set in a fall factor one scenario with a knot 3M down the rope. It was also tested by SAR in a more realistic rescue scenario using a 100kg mass loaded on the A-B DESCENDER and 100kg mass set at 1M FF1. In both tests the A-B DESCENDER passed. SAR confirms the A-B DESCENDER can be used in RESCUE with two people. Tested to EN341-B for a Descent for Rescue System, 100kg, 20 descents each being 100M

SPECIFICATIONS:
Rope dia: 10.5mm - 12.5mm (dependent on manufacturer and stiffness)
Rope type: Kernmantle
Sample Tests:
Min. Static Slip: 4.5kN-10.5mm x 22plait Route 44 singing Rock, 5.5kN-11mm x 24 plait SAR. 8kN-12.5mm x 20 plait Cousin
Max. Dynamic Impact and slip with 100kg FF1-1M 10.5mm = 5.1kN & 51cm, 11mm = 6.2kN & 26cm, 12.5mm = 7kN & 15cm
Weight of product: 450g

Thank you for taking the time to read this user's guide. The instructions are not exhaustive and CANNOT substitute for comprehensive instruction by trained and/or otherwise competent person. Engaging at heights are dangerous, the consequences of incorrect selection, use and maintenance of the product could result in damage, serious injury or death. It is critical at all times to ensure that the user understands the correct and safe use of the product, uses it only for the purpose for which it is designed and practices all proper safety procedures. SAR can provide the training if required. If you have any ideas how the guide or the product can be improved, we would welcome your views.

FITTING INSTRUCTIONS:

- Connect A-B DESCENDER to karabiner on harness attachment point. (Preferably waist connection). Open swivel cheek (plate) upwards. To allow loading of rope and load rope around main bobbin as in diagram Fig. 1.
- Close swivel plate and lock onto karabiner. Lift handle and fit rope into gap for PGB. Fig. 2 & 3.
- A-B DESCENDER in normal working position and rope engaged in the PGB function. Fig. 3.
- A-B DESCENDER with the rope over the back of the descender PGB bobbin for fast descent and NOT engaged in the PGB function. Fig. 4.
- The A-B DESCENDER has a flip down handle, this gives the user more leverage and control when being used in Intervention or Rescue. Fig. 5.
- To lock off the rope so as not to accidentally activate the descent mode, take a loop from the tail rope and pass it through the karabiner. Loop it over the bobbin arm of the PGB and pull down end of rope to secure it in the groove between the panic bobbin and main body as in Fig. 6 & 7.

IT

IMPORTANTE:
Ai fini di garantirne il massimo della sicurezza e delle prestazioni, siete pregati, prima di procedere all'utilizzo di questo prodotto, di leggere attentamente e di comprendere tutte le istruzioni qui di seguito indicate.

Il A-B DESCENDER trattasi di un DISPOSITIVO DI DISCESA appositamente progettato per l'uso su corda in caso di interventi tecnici ed interventi tecnici di accesso da parte della Polizia e delle Forze Speciali, i quali necessitano di un dispositivo multiscopo di regolazione corda in grado di portare il peso di due persone durante gli interventi di soccorso, nonché provvisto di Freno con Sicurezza Antipanico (FSA).

Durante gli interventi tecnici di accesso il dispositivo deve sempre essere utilizzato unitamente ad un dispositivo EN12841 Tipo A oppure ad un dispositivo di supporto EN353-2, i quali non sempre sono richiesti durante le operazioni di intervento o di salvataggio.

FUNZIONI D'UTILIZZO: Il A-B DESCENDER può essere utilizzato nei modi indicati qui di seguito. La SAR consiglia tuttavia che gli utilizzatori vengano addestrati ad utilizzarlo in tutti i modi d'utilizzo possibili e siano a conoscenza di tutti i relativi punti di forza e debolezza, sia da un punto di vista pratico che fisico.

- Discesa controllata con FBA attivato
- Discesa a velocità controllata - FBA disattivato
- Modalità d'ascensione
- Frenatura sistema di traino

Equipment identifying file - Scheda d'identificazione dell'equipaggiamento - Fiche d'identification de l'equipement - Identifikationskarte der Ausruestung - Ficha de identificación del equipo

User Utilizzatore Utilisateur Benutzer Usuario	Purchase date Data d'acquisto Date d'achat Kaufdatum Fecha de compra	Date of first use Data del primo utilizzo Date de première utilisation Datum der ersten verwendung Fecha de la primera utilización
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THIS DOCUMENTATION SHOULD BE ISSUED WITH AND KEPT FOR EACH ITEM OR SYSTEM

Please see the product label for the details required below.

Consult this guide for advice on inspection, maintenance, lifespan, etc. Other components of personal protective equipment against falls from a height with which this product is used should conform to relevant European Standards (EN's) or in their absence other appropriate standards.

COMMENTS: To fully conform to EN341-B the Descender must be used with the 11mm SAR or Teufelberger 16 plait low stretch rope. EN341-B is a standard for a Rescue/Escape SYSTEM and not an individual item such as EN12841-C Rope Adjustment Device, which is a descender that can be used for all types of rope work including rescue on any kernmantle rope that will suit the device. Account must be taken on the test results on the inside pages.

QUESTA SCHEDA VA EMESSA E CONSERVATA PER OGNI SINGOLO PRODOTTO E/O SISTEMA

Prego consultare l'etichetta prodotto per la compilazione dei dettagli richiesti qui di seguito:

Consultare questa guida all'uso per consigli riguardante l'ispezione, la manutenzione, la longevità, ecc.

Ogni ulteriore componente di presidi ed attrezzature di protezione personale contro le cadute da altezza utilizzabili con il presente prodotto devono essere conformi alle Norme Europee (EN) appropriate oppure, in caso di mancanza delle stesse, ad altre apposite norme.

NOTE: Per essere totalmente conforme alla norma EN341-B il dispositivo di discesa deve essere utilizzato con treccia da 11 mm della SAR oppure con treccia 16 Teufelberger a basso coefficiente di allungamento. La EN341-B trattasi di una norma per un SISTEMA di salvataggio/fuga e non per un prodotto individuale tipo i dispositivi previsti dalla norma EN12841-C, ossia i Dispositivi di Regolazione Corda, i quali trattasi di dispositivi di discesa utilizzabili per tutti i tipi di corda compresi i salvataggi su qualsiasi corda con guaina idonea per il dispositivo. E' necessario tener conto dei risultati delle prove indicati nel testo interno.

CETTE FICHE DOIT ÊTRE ÉTABLIE ET CONSERVÉE POUR CHAQUE PRODUIT ET/OU SYSTÈME

Merci de consulter l'étiquette du produit pour renseigner les détails qui sont demandés ci-dessous.

Consultez ce guide d'utilisation pour tout conseil concernant l'inspection, l'entretien, la durée de vie, etc. de l'équipement

Tout autre composant de dispositifs ou d'équipements de protection individuelle contre les chutes de hauteur susceptibles d'être utilisés avec ce produit doivent être conformes aux normes européennes (EN) correspondantes ou, à défaut, aux normes spécifiques.

REMARQUES : Pour être totalement conforme à la norme EN341-B, le descendeur doit être utilisé avec une corde tressée de 11 mm SAR ou une corde tressée 16 Teufelberger à faible coefficient d'allongement. La EN341-B est une norme relative aux SYSTÈMES de sauvetage et de fuite, non pas à un produit individuel tel que les dispositifs prévus par la norme EN12841-C, c'est-à-dire les dispositifs de réglage de corde qui sont des dispositifs de descente pouvant être utilisés sur tous les types de corde et pour les sauvetages sur n'importe quelle corde gainée adaptée au dispositif. Tenir compte des résultats des essais indiqués à l'intérieur de cette notice.

DIESE KARTE MUSS FÜR JEDES EINZELNE PRODUKT U/O SYSTEM ERFASST UND AUFBEWAHRT WERDEN

Entnehmen Sie die unten anzugebenden Daten dem Etikett des Produktes:

Lesen Sie diese Gebrauchsanweisung für die Ratschläge hinsichtlich der Inspektion, Wartung, Lebensdauer usw. aufmerksam durch.

Alle sonstigen Einrichtungen und Ausrüstungen für den persönlichen Schutz gegen den Sturz von Höhen, die mit dem vorliegenden Produkt benutzt werden können, müssen den treffenden Europäischen Normen (EN), oder, wenn nicht vorhanden, sonstigen zweckmäßigen Vorschriften entsprechen.

BEMERKUNG: Um gänzlich der Norm EN341-B zu entsprechen, muss die Abstiegsvorrichtung mit Geflecht von 11 mm von SAR oder mit Geflecht 16 Teufelberger mit niedrigem Verlängerungskoeffizient benutzt werden. Bei der Norm EN341-B handelt es sich um die Vorschrift für ein Rettungs-/Flucht-SYSTEM und nicht für ein individuelles Produkt, die von der Norm EN12841-C vorgesehen sind, und zwar die Seilregulierungsvorrichtungen, bei denen es sich um Abstiegsysteme handelt, die mit allen Seiltypen, alle für die Vorrichtung passende Rettungsselle mit Ummantelung inbegriffen, benutzt werden können. Es müssen die Resultate der im Text angegebenen Proben berücksichtigt werden.

ESTA FICHA DEBE EMITIRSE Y CONSERVARSE PARA CADA PRODUCTO Y/O SISTEMA

Se ruego consulten la etiqueta de producto para la cumplimentación de los detalles que se piden a continuación: Consultar este manual de uso para recomendaciones sobre la inspección, el mantenimiento, la duración en el tiempo, etc.

Cada componente adicional de los equipos de protección individual contra caídas de altura que se pueda utilizar con este producto debe cumplir con las normas europeas (EN) apropiadas o, en sus defectos, a otras normas especiales. **NOTAS:** Para ser totalmente conforme con la norma EN341-B el dispositivo de descenso debe utilizarse con trencia de 11 mm SAR o con trencia 16

Teufelberger con bajo coeficiente de alargamiento. La EN341-B es una norma para un SISTEMA de salvamento/escape y no para un producto individual del tipo de los dispositivos previstos por la norma EN12841-C, es decir los Dispositivos de Regulación de Cable, que son dispositivos de descenso utilizables para todos los tipos de cable, incluidos los de salvamento sobre cualquier cable con vaina adecuado para el dispositivo. Es necesario tener en cuenta los resultados de las pruebas indicadas en el texto interno.

