
This document provides technical characteristics for RescueStreamer® Signal Marker products manufactured by Rescue Technologies Corporation, CAGE Code 1CFD4. Characteristics common to all products are listed first followed by characteristics specific to individual products.

Film used for all RescueStreamer® products is

- High Density Polyethylene Extruded (HDPE)
 - Thickness .003 inches or 3 MILs
 - Color bright orange (NBS Special Pub 440, color 34)
 - Bright yellow available on special orders
 - Positively buoyant
 - Inert, non-hazardous
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Flotation struts used on RescueStreamer® products are hollow, air filled and sealed providing additional buoyancy and enhancing the overall flotation and stability of the deployed RescueStreamer® Signal Marker. Each product may use a different diameter struts defined in the specific product sections below. Flotation struts are welded to the film at optimal locations and perpendicular to the deployed length of the RescueStreamer®. This configuration resists twisting of the film when deployed.

Attachment bridles on SAR series products are manufactured using heavy duty monofilament line, double barrel copper sleeves injection molded nylon shock cord clips.

Passive light reflectors are SOLAS grade retro-reflective tapes installed at optimal locations on both side of the RescueStreamer® film. Retro-reflectors are standard on SAR 6/25 RR and can be installed on any RescueStreamer® product.

All RescueStreamer® Signal Marker products are Berry and Kissell Amendment compliant.

SAR 6/25 MIL is the most compact RescueStreamer®. SAR 6/25 MIL provides passive day signaling capability on land, ice and at sea.

Typical uses include person mounted applications such as flight vests, PFD's and tactical load bearing equipment.

4240 01 451 8752

- Diameter 1.5 inches
 - Length 6 inches
-
- Length 25 feet
 - Width 6 inches
-
- 5 ounces
-
- Quantity 10
 - Diameter .2 inches
 - Spacing on film 30 inches
-

Visual acuity or detection range is 1.3 miles at 1500 feet altitude.

Once deployed, SAR 6/25 MIL provides indefinite day signaling capability until retrieved by the survivor. It will not sink, dissipate, fade or drift away.

SAR 6/25 MIL floats when stowed and deployed.

SAR 6/25 RR is identical in all respects to SAR 6/25 MIL with the one exception of installed retro-reflectors. SAR 6/25 RR provides passive day and night signaling capability on land, ice and at sea. Installed retro-reflectors reflect back aimed or ambient visible and infrared light sources.

Typical uses include person mounted applications such as flight vests, PFD's and tactical load bearing equipment.

4240 01 451 8734

- Diameter 1.5 inches
 - Length 6 inches
-
- Length 25 feet
 - Width 6 inches
-
- 5 ounces
 - Quantity 10
-

nt the same

SAR 6 MIL is a compact RescueStreamer® Signal Marker. SAR 6 MIL provides passive day signaling capability on land, ice and at sea.

Typical uses include one and two person life rafts or land based accessory survival kits installed in small aircraft or back country packs.

4240 01 451 8756

- Diameter 2 inches
 - Length 6 inches
-

- Length 40 feet
 - Width 6 inches
-

- 6 ounces
-

- Quantity 16
 - Diameter .2 inches
 - Spacing on film every 30 inches
-

Visual acuity or detection range is 1.3 miles at 1500 feet altitude.

Once deployed, SAR 6 MIL provides indefinite day signaling capability until retrieved by the survivor. It will not sink, dissipate, fade or drift away.

SAR 6 MIL floats when stowed and deployed.

SAR 11 MIL is the mid-sized RescueStreamer® Signal Marker. SAR 11 MIL provides passive day signaling capability on land, ice and at sea.

Typical uses include 7 through 16 person multi-place life rafts or accessory survival kits installed in small aircraft, helicopters and light armored vehicles.

4240 01 451 8760

- Diameter 2 inches
 - Length 11 inches
-

- Length 40 feet
 - Width 11 inches
-

- 11 ounces
-

- Quantity 16
 - Diameter .2 inches
 - Spacing on film every 30 inches
-

Visual acuity or detection range is 1.5 miles at 1500 feet altitude.

Once deployed, SAR 11 MIL provides indefinite day signaling capability until retrieved by the survivor. It will not sink, dissipate, fade or drift away.

SAR 11 MIL floats when stowed and deployed.

This section provides technical characteristics for lighted RescueStreamer® Signal Marker products. The Manual Deploy Lighted RescueStreamer® and the Self Deploying Infrared Streamer are discussed below. These two products, in addition to indefinite passive day signaling capability, provide active night signaling capability through the use of installed LiteTubes™. Characteristics common to both products are listed first followed by specific characteristics in separate sections below.

Attachment bridles used on lighted RescueStreamer® products are manufactured using Type 3 nylon cord and stainless steel dual ring swivels pull tested to 200 pounds.

LiteTubes™ have the following characteristics

- Length 10 1/8 inches
 - Diameter 1.1 inches
 - Weight 4.8 ounces
 - Light output high intensity red / orange light emitting diode array
 - Flashes S O S 60 times per minute
 - Alternating bright then dim display
 - Never fully extinguishes when actively flashing
 - Light signal duration Minimum of 3 night cycles
 - Armed for illumination during film deployment
 - Once armed, automatically switches on at atmospheric dusk and automatically switches off at atmospheric twilight
 - Batteries four CR 123 lithium cells
 - Battery life Four years from date of manufacture
 - Buoyancy Inherent positive buoyancy
 - Visual acuity or detection range Six miles at 3000 feet altitude
 - On/off capable
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Manual Deploy Lighted RescueStreamer® Signal Marker is the mid-sized RescueStreamer® designed specifically for integration in ejection seat survival kits where space limitations require small or compressible signaling configurations. The Manual Deploy Lighted RescueStreamer® is a capability consolidator due to the dual day and night signaling functionality. User organizations may remove dye markers, strobe lights, chemical light sticks and possibly pyrotechnics when the Manual Deploy Lighted RescueStreamer® is installed.

Designed for the Naval Aircrew Common Ejection Seat for installation in the life raft compartment. Typical uses include 7 through 16 person multi-place life rafts or accessory survival kits installed in small aircraft, helicopters and light armored vehicles.

NB-1140RR-1LT

Not assigned

- Depth 1.75 inches
 - Width 3.75 inches
 - Length 11 inches
-

- Length 40 feet
 - Width 11 inches
-

- Compressible Diameter to 8 1/4 inches
-

- 18.8 ounces
-

- Quantity 16
 - Diameter .2 inches
 - Spacing on film every 30 inches
-

- Quantity 1
-

- Visual acuity or detection range
 - Day 1.5 miles at 1500 feet altitude
 - Night over 3 miles at 3000 feet altitude
 - Once deployed, NB-1140RR-1LT provides signaling capability until retrieved by the survivor. It will not sink, dissipate, fade or drift away.
 - NB-1140RR-1LT floats when stowed and deployed.
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SDIRS is a mid-sized RescueStreamer® Signal Marker designed specifically for integration in the U. S. Air Force aircrew common ejection (ACES II) seat survival kit. This Signal Marker is a capability consolidator due to the dual day and night signaling functionality. User organizations may remove dye markers, strobe lights, chemical light sticks and possibly pyrotechnics when SDIRS is installed.

Typical uses include installation in tactical aircraft using the ACES II ejection seat. SDIRS is an ideal signaling solution for use in multi-place life raft assemblies.

SDIRS 11/40 MIL

Not assigned

- Length 16 inches
 - Width: 11 1/2 inches
 - Height: 1 3/8 inches
-
- Length 40 feet
 - Width 11 inches
-
- Flat install
 - Length 16 inches
 - Width 11 1/2 inches
 - Height 1 3/8 inches
 - Bi-fold install
 - Length 7 1/2 inches
 - Width 11 1/2 inches
 - Height 2 1/4 inches
 - Tri-fold install
 - Length 5 1/2 inches
 - Width 11 1/2 inches
 - Height 3 inches
-

- 31.2 ounces
-

- Quantity 28
 - Diameter .28 inches
 - Spacing on film every 17 inches
-

- Quantity 2
 - Spacing on film 30 feet, first LiteTube™ installed 3 feet from attachment bridle
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SDIRS is packed in a black fabric valise that uses water soluble closure ties to secure the valise around the assembled Signal Marker. The water soluble ties are custom spun to close tolerance diameters designed provide a 13 minute time delay before deployment initiates. This 13 minute window allows the conscious pilot complete discretion to prevent deployment in the case where detection by enemy forces may occur. If the pilot is unconscious, incapacitated or otherwise unable to exercise deployment discretion, SDIRS will open and deploy automatically providing day and night signaling capability.

- Visual acuity or detection range
 - Day 1.5 miles at 1500 feet altitude
 - Night 6 miles at 3000 feet altitude
 - Once deployed, SDIRS provides signaling capability until retrieved by the survivor. It will not sink, dissipate, fade or drift away.
 - SDIRS floats when stowed and deployed.
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