



# Supplemental Type Certificate

**Number: SVR 508**

**This certificate issued to:** Ascent Helicopters (Australia) Pty Ltd  
358 Main St  
MORNINGTON, VIC 3931

**certifies that the change in the type design for the following product when installed in accordance with the limitations and conditions specified herein meets the airworthiness requirements of FAR 29.**

<b>Original Product:</b>	Type Acceptance Certificate Number:	R11
	Referenced TC Number (if applicable):	FAA H4SW
	Make:	Bell Helicopter Textron
	Model:	212

**Description of Type Design Change:** Installation of Ascent Aerospace AS50001C Fire Suppression System (FSS) (Fire Tank Assembly P/No AS 50001C-1000-1000 Serial No 0001C) in accordance with Installation Instructions ADS 091207-1-60 Issue 0.

**Limitations and conditions:**

Prior to incorporating this design change, the installer shall establish that the interrelationship between this change and any other modifications incorporated into the aircraft will not adversely affect the airworthiness of the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until suspended, cancelled or a termination date is otherwise established by the Civil Aviation Safety Authority.

For additional limitations and conditions refer to STC SVR 508 Continuation Sheet

Date of application:	8 October 2010	Date Amended	29 October 2013
Date of issuance:	19 June 2013		

**This certificate is issued pursuant to Regulation 21.113A of the Civil Aviation Safety Regulations.**

Peter Nikoilo  
**Delegate of the Authority**



This certificate may be transferred in accordance with CASR (1998) 21.47

# Supplemental Type Certificate

(Continuation sheet)

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## Limitations and Conditions: (continued)

### Airspeed Limitations

Maximum forward speed with tank installed and unpowered (VNE decreases 3 knots per 1,000 feet above 3,000 HD)	110 KIAS
Maximum forward speed with tank installed and powered	90 KIAS
Maximum speed on-load hose down	70 KIAS
Maximum speed when deploying or retracting on-load	10 KIAS
Maximum speed with on-load pump in water	0 KIAS
Maximum speed with external cargo at or below 10,000 HD (VNE decreases 3 knots per 1,000 feet above 10,000 HD)	80 KIAS

### Weight Limitations

Maximum weight on external cargo hook	3,000 lb
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### Operating Limitations

All external surfaces on the tank which will be exposed to direct sunlight when the tank is installed on the aircraft must be painted White.

Outside Air Temperature must never exceed 38 degrees C for tank operation.

No water may be carried in the fire suppression system tank during external cargo operations.

During fire suppression operations or external cargo operations, only the essential crew may be carried. Essential crew for water deployment operations or for external cargo operations consists of the pilot and, if required for the mission, a helicopter operations technician.

Normal helicopter operations with passengers may be conducted with the FSS installed, as long as the tank is empty and disarmed.

Operations with the FSS tank installed are limited to DAY/VFR only.

If Fire Tank Contents Indication system is unserviceable, water operations must not be conducted unless fuel weight will allow the water tank to be filled without overloading the aircraft.

For the purposes of calculating the Retirement Index Number as required by FAA Airworthiness Directive 2000-15-52 Main Rotor Mast/ Bell Textron Service Alert Bulletin 212-00-106, each water on-load shall be considered to be the equivalent of an external load lift.

### Required Equipment

To operate the Aerial Fire Suppression System, the following Supplementary Type Certificates must be installed and the representative flight manual supplements must be included in the Rotorcraft Flight Manual for the aircraft.

- 1) Kawak (Ag-Air) Hydraulic System FAA STC SR00876SE
- 2) Dart Aerospace Ltd, 39 inch Extended Height Landing Gear TCCA STC SH03-06
- 3) Boundary Layer Research Inc. BLR Tail Boom Strake System TCCA STC SH01-28 (FAA STC SR00798SE)

In addition, for fire suppression operation the following equipment is required

- 4) Approved external cargo mirrors for both crew members.
- 5) Functioning Windshield wiper on the pilot's side.
- 6) Functional FSS tank contents indication system unless fuel weight will allow the water tank to be filled without overloading the aircraft.

END