

**BAE SYSTEMS**

INSPIRED WORK

**KEY FEATURES**

- Energy-absorbing
- Five-point restraint
- Guarded rotary buckle
- Armored bucket
- Adjustable armored wing
- Interface load-limiting design
- Weapons mount



# Bell 412

Energy-absorbing  
armored crew seat

## STANDARD FEATURES

### Crew Seat Assembly

- These floor-mounted crew seats adjust vertically and in the fore/aft directions
- Energy-absorbing stroke provided both vertically (to protect the occupant) and in the forward direction (to reduce floor loading)
- An armored wing panel may be mounted on either side of the seat

### Vertical Energy-Absorption System

- The seat uses Variable-Load Energy Absorbers (VLEAs), permitting occupants to customize the energy-absorbing feature to their mission-equipped weight. The vertical energy-absorption system can be set to decelerate any equipped occupant weight from 160 to 260 pounds (73 to 118 kg)

### Available Stroke

Varies according to seat vertical adjustment position

- 4 inches (10 cm) minimum
- 9 inches (23 cm) maximum

### Armor System

- Kevlar® Laminated Boron Carbide ceramic

### Ballistic Protection

- Armored bucket provides 30-cal AP ballistic protection

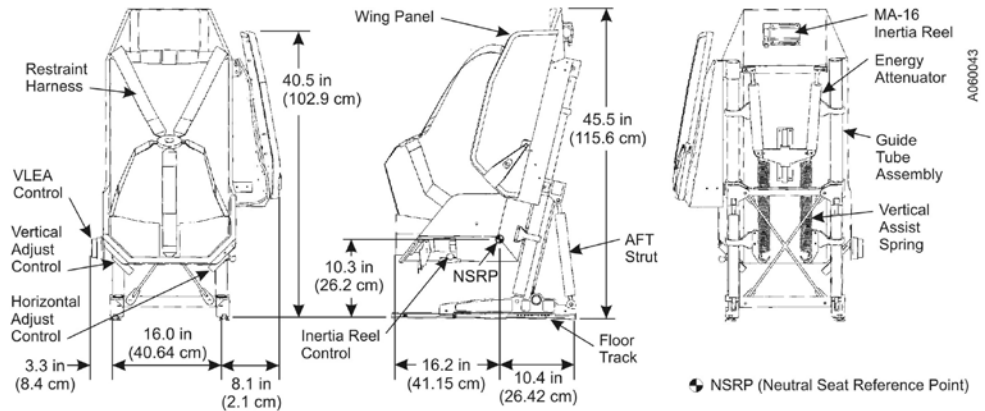
### Floor Reinforcement

- Kit available

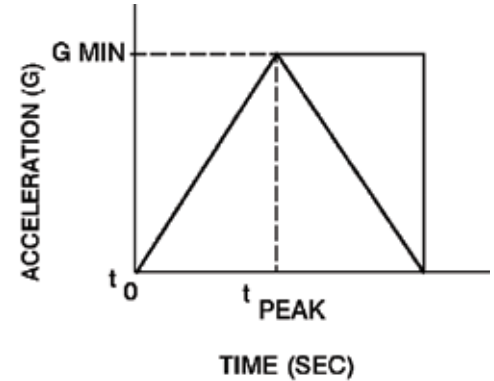
### Seat Weight

- 131 pounds (59 kg)

## BELL 412 SEAT OUTLINE AND INSTALLATION INFORMATION



## TEST PULSE



## TEST CONDITIONS AND ORIENTATION

TEST	CONFIGURATION	PARAMETER	MAGNITUDE
1	<p>DUMMY INERTIAL LOAD</p>	$t_{PEAK}(SEC)$	0.0515
		G MIN	38.0
		$\Delta V$ MIN (FT/SEC)	(31.5)
		(M/SEC)	(9.6)
2	<p>DUMMY INERTIAL LOAD</p>	$t_{PEAK}(SEC)$	0.080
		G MIN	23.3
		$\Delta V$ MIN (FT/SEC)	(30.0)
		(M/SEC)	(9.1)

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