



Subject : Cargo Area Cover Systems  
 Type : Canopy, Fastback Canopy, Storm-Lid, Pop-Up-Lid, Outback Lid  
 Manufacturer : SJS Pro-products Co. Ltd, Thailand

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## TECHNICAL REPORT

No. TR-SJS-01792/08

This technical report does describe the suitability of the components to be used with certain vehicle types once they have been properly installed. This report is not intended to be used to prove compliance with legal requirements which might be required from certain national vehicle registration rules.

for the component / scope of modification : Cargo Area Cover Systems

type : Canopy, Fastback Canopy, Storm-Lid, Pop-Up-Lid, Outback-Lid

Information Document : SJS Pro Products Co. Ltd. Rev. 00, Dated 31.03.2008

from the manufacturer (office) : SJS PRO-PRODUCTS CO LTD  
 60/2-3 Moo 2, Soi Udomsuk  
 Sukhumvit Road  
 Kwang Nong Bon, Khet Pravet  
 Bangkok 10250  
 Thailand

from the manufacturer (manufacturing location) : SJS PRO-PRODUCTS CO LTD  
 Latkrabang Industrial Estate Export Processing Zone 3  
 No 140 Moo 4 Chalong Krung Rd.  
 Lamplathiew Sub- District, Latkrabang District  
 Bangkok 10520  
 THAILAND

### 0. Notes to the owner of the vehicle

#### Guidance information to be noted and requirements to be complied with:

The installation of the cargo area cover systems shall be in accordance to the installation manual. It is the responsibility of the vehicle owner and driver that the vehicle is in compliance with the national registration requirements. This report does not cover any legal vehicle registration or homologation requirements.

Documents the driver is required to carry with him/her:

According to the applicable national requirements in the country where the vehicle is used.



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#### Revision of vehicle papers:

According to the applicable national requirements in the country where the vehicle is used.

### I. Application range/ Application Matrix:

The cargo area cover systems are designed for the installation on the following vehicles:

Vehicle manufacturer	Vehicle type *)	Trade name	Type of Cargo Area Cover Systems				
			1)	2)	3)	4)	5)
Ford Motor Company	2AW	Ranger	X	X	X	X	X
Isuzu Motors Limited (J)	TF	DMax	X	-	X	X	X
Mahindra Mahindra, India	Bolero	Bolero Camper	X	-	X	X	X
Mazda Motor Corporation (J)	UN	BT 50	X	X	X	X	X
Mitsubishi (J)	Triton	Triton	X	X	X	X	X
Nissan Motor Iberica S.A.	D 40	Navara	X	X	X	X	X
Toyota	Hilux Vigo	Hilux Vigo	X	X	X	X	X
Ssangyong Motor Company, Korea	Actyon Q1	Actyon Sports	X	-	X	X	X

1): Canopy  
 2): Fastback Canopy  
 3): Lid-Storm  
 4): Lid-Pop-Up  
 5): Outback Lid

\*) : only double Cab versions applicable and tested



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## II. Description of the component / scope of modification

Mounting of an cargo area cover system on the standard vehicle cargo box.

### A): Canopy

Kind : Cargo Area Cover System  
 Type : Canopy  
 Manufacturer : SJS PRO-PRODUCTS CO LTD  
 Latkrabang Industrial Estate Export Processing  
 Zone 3  
 No 140 Moo 4 Chalong Krung Rd.  
 Lamplathiew Sub- District, Latkrabang District  
 Bangkok 10520, Thailand

### Specification Matrix of Canopy:

Vehicle	Material	Length [mm]	Width [mm]	Height [mm] *)	Weight [kg]	Windows
Ford Ranger	Laminated fibre glass	1590	1535	518	65	E13-43R-000129 E4-43R-000008
Isuzu DMax	Laminated fibre glass	1465	1575	510	64	E13-43R-000129 E4-43R-000008
Mahindra Bolero	Laminated fibre glass	1585	1630	675	71	E13-43R-000129 E4-43R-000008
Mazda BT50	Laminated fibre glass	1590	1535	518	65	E13-43R-000129 E4-43R-000008
Mitsubishi TRITON	Laminated fibre glass	1490	1560	480	61	E13-43R-000129 E4-43R-000008
Nissan D40	Laminated fibre glass	1575	1670	560	69	E13-43R-000129 E4-43R-000008
Toyota Hilux Vigo	Laminated fibre glass	1620	1610	515	65	E13-43R-000129 E4-43R-000008
Ssangyong Actyon	Laminated fibre glass	1380	1675	515	60	E13-43R-000129 E4-43R-000008

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\*) +60mm with optional Roof Rack  
 No other optional items for the Canopy covered with this technical report.

### B): Fastback Canopy

Kind : Cargo Area Cover System  
 Type : Fastback Canopy  
 Manufacturer : SJS PRO-PRODUCTS CO LTD  
 Latkrabang Industrial Estate Export Processing  
 Zone 3  
 No 140 Moo 4 Chalong Krung Rd.  
 Lamplathiew Sub- District, Latkrabang District  
 Bangkok 10520, Thailand

### Specification Matrix of Fastback Canopy:

Vehicle	Material	Length [mm]	Width [mm]	Height [mm] *)	Weight [kg]	Windows
Ford Ranger	Laminated fibre glass	1590	1535	518	64	E13-43R-000129 E4-43R-000008
Mazda BT50	Laminated fibre glass	1590	1535	518	64	E13-43R-000129 E4-43R-000008
Mitsubishi TRITON	Laminated fibre glass	1490	1560	480	59	E13-43R-000129 E4-43R-000008
Nissan D40	Laminated fibre glass	1575	1670	560	67	E13-43R-000129 E4-43R-000008
Toyota Hilux Vigo	Laminated fibre glass	1620	1610	515	63	E13-43R-000129 E4-43R-000008

\*) +60mm with optional Roof Rack  
 No other optional items for the Fastback Canopy covered with this technical report.



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**C): Storm-Lid**

Kind : Cargo Area Cover System  
 Type : Storm-Lid  
 Manufacturer : SJS PRO-PRODUCTS CO LTD  
 Latkrabang Industrial Estate Export Processing  
 Zone 3  
 No 140 Moo 4 Chalong Krung Rd.  
 Lamplathiew Sub- District, Latkrabang District  
 Bangkok 10520, Thailand

## Specification Matrix of Storm-Lid:

Vehicle	Material	Length [mm]	Width [mm]	Height [mm]	Weight [kg]	Windows
Ford Ranger	Laminated fibre glass	1590	1535	518	46	-
Mazda BT50	Laminated fibre glass	1590	1535	518	46	-
Mitsubishi TRITON	Laminated fibre glass	1490	1560	480	45	-
Nissan D40	Laminated fibre glass	1575	1670	560	47	-
Toyota Hilux Vigo	Laminated fibre glass	1620	1610	515	46	-

Optional Item: Roof rack which can be mounted on the lower Roof of the Storm-Lid.  
 No other optional items for the Storm-Lid covered with this technical report.

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**D): Pop-Up-Lid**

Kind : Cargo Area Cover System  
 Type : Pop-Up-Lid  
 Manufacturer : SJS PRO-PRODUCTS CO LTD  
 Latkrabang Industrial Estate Export Processing  
 Zone 3  
 No 140 Moo 4 Chalong Krung Rd.  
 Lamplathiew Sub- District, Latkrabang District  
 Bangkok 10520, Thailand

## Specification Matrix of Pop-Up-Lid:

Vehicle	Material	Length [mm]	Width [mm]	Height [mm]	Weight [kg]	Windows
Ford Ranger	Laminated fibre glass	1590	1535	50	39	-
Isuzu DMax	Laminated fibre glass	1465	1575	50	39	-
Mazda BT50	Laminated fibre glass	1590	1535	50	39	-
Mitsubishi TRITON	Laminated fibre glass	1490	1560	50	38	-
Nissan D40	Laminated fibre glass	1575	1670	50	40	-
Toyota Hilux Vigo	Laminated fibre glass	1620	1610	50	39	-

No optional items for the Pop-Up-Lid covered with this technical report.



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## E): Outback-Lid

Kind : Cargo Area Cover System  
 Type : Outback-Lid  
 Manufacturer : SJS PRO-PRODUCTS CO LTD  
 Latkrabang Industrial Estate Export Processing  
 Zone 3  
 No 140 Moo 4 Chalong Krung Rd.  
 Lamplathiew Sub- District, Latkrabang District  
 Bangkok 10520, Thailand

## Specification Matrix of Outback-Lid:

Vehicle	Material	Length [mm]	Width [mm]	Height [mm]	Weight [kg]	Windows
Ford Ranger	Aluminum	1600	1535	45	28	-
Isuzu DMax	Aluminum	1460	1500	45	27	-
Mazda BT50	Aluminum	1600	1535	45	28	-
Mitsubishi TRITON	Aluminum	1540	1415	45	27	-
Nissan D40	Aluminum	1555	1665	45	29	-
Toyota Hilux Vigo	Aluminum	1620	1620	45	31	-

No optional items for the Outback-Lid covered with this technical report.

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## Marking (all products)

Kind : Adhesive label  
 (If adhesive label removed, it must be destroyed)

Place : in the inner side under the roof

Name : see section II. Description of the component / scope of modification

Manufacturer : SJS Pro-Products Co. Ltd.,  
 Type : see section II. Description of the component / scope of modification

Test carried out on : March 31 and April 1, 2008

Testlocation : SJS PRO-PRODUCTS CO LTD  
 Latkrabang Industrial Estate Export Processing  
 Zone 3  
 No 140 Moo 4 Chalong Krung Rd.  
 Lamplathiew Sub- District, Latkrabang District  
 Bangkok 10520, Thailand

## III. Guidance information on compatibility with further modifications

Further modifications have not been tested. However, under the provision that all legal and technical requirements are fulfilled (must be tested separately) there are no objections, from a technical point of view, to use standard and/or further aerodynamic vehicle parts in conjunction with the described Cargo Area Cover Systems.

## IV. Guidance information and further requirements

## IV.1. Requirements for the manufacturer / Installation operations:

The Cargo Area Cover systems to be securely and durable screwed on the vehicle according to the installation manual. The manufacturer delivers one assembly instruction in connection with each vehicle part including all necessary items for fitting the systems onto the vehicle.





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#### IV.2. Guidance information and requirements for installation:

Installation must follow the manufacturer's instructions. Every 5000km, all nuts and screws to be checked if properly fitting and not got loosen.

#### IV.2. Guidance information and requirements for loading the vehicle:

Due to the weight of the cargo area cover system, the loading capacity is reduced by the weight of the cargo area cover system. It is the responsibility of the vehicle driver and vehicle owner that the maximum permissible weights of the vehicle not get over loaded.

#### Revision of vehicle papers:

The revision of the vehicle papers depend on the national requirements of the country in which the vehicle is registered. Legal aspects are not covered with this report.

### V. Test requirements and test results

#### Test Requirements:

TA 29 for material testing of breaking strength and fire safety  
 87/354/EEC for external projections

#### Tests and tests results

##### Shape and Material

The Cargo Area Cover Systems fulfilled in its form the regulations the Council Directive 74/83/EEC (87/354/EEC). Cargo Area Cover Systems are manufactured with splinter-safe material and low flammability rating.

##### Attachment to the vehicle

The Cargo Area Cover Systems are securely and durable screwed onto the vehicle according to the installation manual which are delivered with each of the products.

##### Lighting systems

The effectiveness of the lighting systems is not influenced after mounting the Cargo Area Cover Systems.

##### Paint

Painting of the Cargo Area Cover Systems are allowed provided that the identification described in section II. remains legible.



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##### Vehicle dimensions

Vehicle dimensions length and width are not effected by the installation of the Cargo Area Cover Systems. The vehicle height is increasing by 60mm when using the types Canopy and Fastback Canopy in combination with the optional Roof Rack.

##### Vehicle weight

The vehicle weight increases by the weight of the cargo area cover system listed under section II.

##### License plate

The rear license-plate position is not effected by the installation of the cargo area cover system.

##### Rear towing device

The usability of the rear towing hook is not effected by the installation of the cargo area cover system.

##### Maximum speed

The maximum speed of the vehicle after mounting the cargo area cover systems remains within precision of measurements.

#### Validity of test results

The test results relate only to the components described in section II. taking into account the scope of application detailed in I.

### VI. Annexes

F Photographic documentation : 5 Sheets



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## VII. Final Statement

This is to certify that, taking account of the guidance information / requirements detailed in this technical report, the vehicles listed in the application matrix meet the technical requirements for being suitable for installation of the cargo area cover system.

This technical report expires in case technical modifications are made to the components or in case modifications made to the vehicle type listed affect the use of the components.

This technical report is not a substitute for a legal compliance report and may not be used as such.

USJ, 09.05.2008



Dipl.-Ing. Manfred Lottig

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Annex F

## Canopy:



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**Fastback Canopy:**



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**Lid-Storm:**





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**Lid-Pop-Up:**



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**Outback-Lid:**

