PROTON X90



Variant STANDARD

Year Built 2023

Model Year 2023

Vehicle Category SUV

Engine Capacity 1.5 L

Kerb Mass 1730 kg

No. of Airbags

Test Lab

TESTED VARIANT ORIGIN

MALAYSIA

FOR

MALAYSIA

OTHER ASEAN PRODUCTION (ALL VARIANTS)

FOR

OR ·

ADULT OCCUPANT PROTECTION

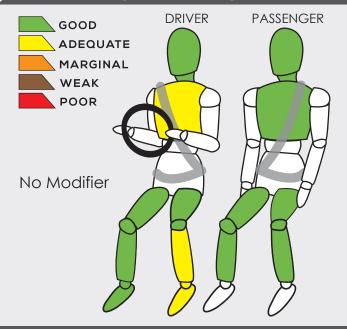


FRONTAL IMPACT

SIDE IMPACT 8.00 HEAD PROTECTION TECHNOLOGY 8.00 TOTAL

30.20

FRONTAL IMPACT



The vehicle's occupant compartment remained stable during the frontal offset test. Data obtained from the assessment showed there was adequate protection given to the driver's chest and lower leg.

GOOD
ADEQUATE
MARGINAL
WEAK
POOR

No Modifier

The performance of HPT was confirmed with additional deployment test and its score was determined by Fitment Rating System (FRS).

SAFETY ITEMS (PASSIVE)

ITEMS	REGION	ASEAN
Airbags :	Driver	Standard on all variants
	Passenger	Standard on all variants
	Side (2)	Standard on all variants
	Curtain (2)	Standard on all variants
	Knee	Not available
Seatbelts	Retractor Pre-tensioner & Load Limiter for Driver	Standard on all variants
	Retractor Pre-tensioner & Load Limiter for Passenger	Standard on all variants

CHILD OCCUPANT PROTECTION

DYNAMIC TEST

24.00

VEHICLE BASED

INSTALLATION

CHILD DETECTION

1.00

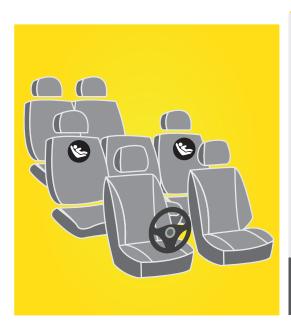
TOTAL

9.00

11.37

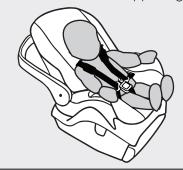
45.37

DYNAMIC TEST ASSESSMENT



18-MONTH-OLD CHILD

Restraint : Britax Baby Safe Plus Facing : Rearward Facing Installation : ISOFIX & Supportleg



Frontal Impact: 8.00 Side Impact: 4.00 Total Performance: 12.00

3-YEAR-OLD CHILD

Restraint : Joie Stages Isofix
Facing : Rearward Facing
Installation : ISOFIX & Supportleg



Frontal Impact: 8.00
Side Impact: 4.00
Total Performance: 12.00

CRS INSTALLATION ASSESSMENT

		SEAT POSITION									
CRS	DIRECTION	FRONT	2ND ROW			3RD ROW					
		PASSENGER	LEFT	CENTRE	RIGHT	LEFT	CENTRE	RIGHT			
Peg-Perego Primo Viaggo SL	Rwd	EXEMPT	PASS	PASS	PASS	PASS	N/A	PASS			
Joie Stages	Rwd	EXEMPT	PASS	FAIL	PASS	PASS	N/A	PASS			
Joie Stages	Fwd	PASS	PASS	PASS	PASS	PASS	N/A	PASS			
Combi Buon Junior Air	Fwd	PASS	PASS	PASS	PASS	PASS	N/A	PASS			
Maxi Cosi Cabriofix + Family Fix	Rwd	EXEMPT	PASS	EXEMPT	PASS	EXEMPT	N/A	EXEMPT			
Joie Every Stage Fx	Fwd	EXEMPT	PASS	EXEMPT	PASS	EXEMPT	N/A	EXEMPT			
Joie Every Stage Fx	Rwd	EXEMPT	PASS	FAIL	PASS	PASS	N/A	PASS			
Maxi Cosi Titan Pro	Fwd	EXEMPT	PASS	EXEMPT	PASS	EXEMPT	N/A	EXEMPT			
Britax KidfFix 2 R	Fwd	PASS	PASS	FAIL	PASS	PASS	N/A	PASS			
Britax Baby Safe Plus ISOFIX Base*	Rwd	EXEMPT	PASS	EXEMPT	PASS	EXEMPT	N/A	EXEMPT			
Joie Stages ISOFIX*	Rwd	EXEMPT	PASS	EXEMPT	PASS	EXEMPT	N/A	EXEMPT			



EFFECTIVE BRAKING & AVOIDANCE 6.00

SEATBELT REMINDERS 4.50 AUTONOMOUS EMERGENCY BRAKING 3.00 ADVANCED SATs
3.00

TOTAL 16.50

ITEMS	ASEAN							
Effective Braking & Avoidance								
Anti-lock Braking System	Standard on all variants							
Electronic Stability Control	Standard on all variants							
Seatbelt Reminders								
Driver	Standard on all variants							
Front Passengers	Standard on all variants							
Rear Passengers	Standard on all variants							
Rear Seat Occupant Detection	Not available							
Autonomous Emergency Braking								
City	Available as optional							
Inter-Urban	Available as optional							
Pedestrian	Available as optional							
Advanced Safety Assist Technologies								
Lane Departure Warning System	Available as optional							
Forward Collision Warning System	Available as optional							
Lane Keep Assist	Available as optional							
Rear Cross Traffic Alert	Available as optional							
Emergency Lane Keep Assist	Available as optional							
Traffic Sign Information	Available as optional							
Rear Collision Warning	Available as optional							

AUTONOMOUS EMERGENCY BRAKING ASSESSMENT



ASEAN NCAP is introducing the Autonomous Emergency Braking (AEB) system functionality assessment in its new 2021-2025 protocol. In the protocol, ASEAN NCAP assessed the functionality and effectiveness of AEB City (C2C rear stationary) and AEB Inter-Urban (C2C rear moving) systems fitted inside the vehicle in performing emergency braking at several speeds against another preceding vehicle. The new PROTON X90 offers both the AEB City and Inter-Urban systems as optional across all its variants. In this assessment ASEAN NCAP confirms that the technologies have functioned according to the ASEAN NCAP requirements.



BLIND SPOT DETECTION REAR VISUALIZATION

0.00

HEADLIGHT

PEDESTRIAN

ADVANCED MST

TOTAL

8.00

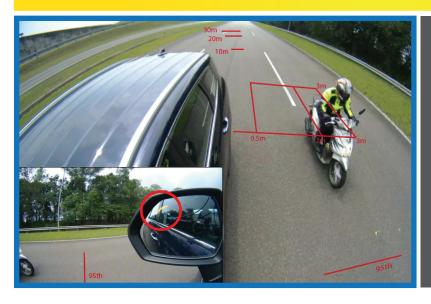
0.00 2.00

0.00

10.00

ITEMS	ASEAN							
Blind Spot Detection								
Nearside	Standard on all variants							
Offside	Standard on all variants							
Rear Visualization								
Advanced Rear Visualization	Not available							
Headlight								
Auto High Beam	Not available							
Pedestrian								
Pedestrian Protection	Standard on all variants							
Advanced Motorcyclist Safety Technology								
Nil	-							

BLIND SPOT DETECTION ASSESSMENT



Starting from the 2017-2020 protocol, ASEAN NCAP had introduced assessment on the functionality of Blind Spot Technology fitted inside the assessed vehicle. ASEAN NCAP continues the assessment under the new Motorcyclist Safety pillar for the 2021-2025 protocol. The newly assessed PROTON X90 is equipped with Blind Spot Detection (BSD) on the driver and passenger sides of the vehicle as standard fitment across all its variants. In this assessment, ASEAN NCAP confirms that the technology has functioned according to the ASEAN NCAP requirements on both sides of the vehicle.



OVERALL RATING

The new PROTON X90 is the tenth model under the PROTON's brand that underwent ASEAN NCAP assessment. The 7-seater SUV is equipped with a standard fitment of 6 airbags, Electronic Stability Control (ESC), Anti-lock Braking System (ABS), Seatbelt Reminder System (SBR) for frontal and rear seats occupant, Blind Spot Detection (BSD) for both the driver and passenger sides, Child Presence Detection (CPD) and Pedestrian Protection technology in all its variants. In addition, the X90 offers advanced safety assist technologies as optional fitment across its variants that consist of Autonomous Emergency Braking (AEB) City, AEB Inter-Urban, AEB Pedestrian, Lane Departure Warning (LDW), Forward Collision Warning (FCW), Lane Keep Assist (LKA), Rear Cross Traffic Alert (RCTA), Emergency Lane Keep Assist (ELKA), Traffic Sign Information (TSI) and Rear Collison Warning (RSW). The PROTON X90 has performed exceptionally well in the assessment with an overall score of 83.75 points. The score has made the model to be eligible to be awarded with 5-Star ASEAN NCAP rating.

	A (\D		COP			CALLTY ACCICT			AAC			
	AOP		COP		SAFETY ASSIST			MS			2021 - 2025 ASEAN NCAP		
PROTON X90 TESTED APRIL 2023	Item	Point	Max	Item	Point	Max	Item	Point	Max	Item	Point	Max	RATING
	ODB	14.20	16.00	FRONTAL	16.00	16.00	EBA	6.00	6.00	BSD/BSV	8.00	8.00	
****	SIDE	8.00	8.00	SIDE	8.00	8.00	SBR	4.50	6.00	ARV	-	4.00	
ASEAN	HPT Evaluation	8.00	8.00	Installation	11.37	12.00	AEB City	1.25	2.50	AHB	-	2.00	
www.eseencep.org				Vehicle Based	9.00	13.00	AEB Inter-Urban	1.75	3.50	Ped. Protection	2.00	2.00	
				CPD	1.00	2.00	Advanced SATs	3.00	3.00	Advanced MST*	-	2.00	
Score		30.20	32.00		45.37	51.00		16.50	21.00		10.00	16.00	
Normalized Score		0.94			0.89			0.79			0.625		
Weighting		40%			20%			20%			20%		OVERALL SCORE
Weighted Score		37.75			17.79			15.71			12.50		83.75
Maximum Star Rating		5			5			5			5		5

*Bonus Point