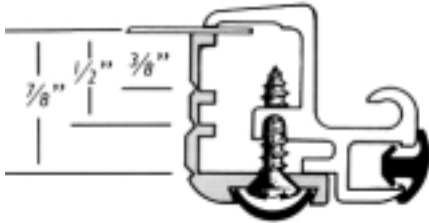


INSTALLATION SPECIFICATIONS AND INFORMATION 2003 MODEL YEAR

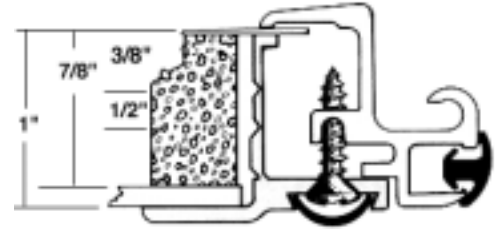
Proper Location of Sunroof

NOTE: These specifications are intended to be guidelines only. Car manufacturers may change specifications without notice. Determine the front to back position of the sunroof by placing the template inside the vehicle and determining the best possible position on the headliner. Transfer this position to the outside roof skin by dimpling the roof with an awl poked through the template at least 4 inches within the cut out area. Establish the vehicle center line by measuring side to side on the vehicle and dividing by two. Center the template on this line using the dimple to establish the front to back position. The depth measurements given in this guide are from where the windshield meets the interior trim at the inside center of the vehicle.

SFC and CRL do not accept responsibility for any sunroof location. Shaded areas reflect a general recommendation. It is the installer's responsibility to check and verify each application before beginning the installation.



All Measurements Are Taken From The Interior And Are Shown With An Accuracy of +/- 1 Inch



T5 Universal Trim Ring

Interior Trim Ring Selection

T6 Molded Trim Ring

The selection of the proper trim ring reflects an installer's choice, technique and ability. The T5 and T6 trim rings are universal, and can be adapted to a variety of headliner thicknesses. Adapting the ring to the desired configuration is shown on the installation instructions provided with the sunroof. The objective is to create a stack dimension which will firmly squeeze the sealant, steel roof top, shim and headliner together (Approx. 7/8 Inch). If a trim ring other than the one pre-assembled to your sunroof is used, be sure to pre-assemble this new ring to the frame for easier installation.

Revised March 12, 2003

NOTE	EXPLANATION OF NOTES
B	A roof bow must be moved, removed or modified in order to properly place the sunroof. The portion of the bow at the edge of the sunroof installation must be trimmed to allow a one inch space between the edge of the sunroof and the cut end of the bow. This allows for proper shimming and a better finished product.
Consoles	Many vehicles, especially with higher trim level options, have overhead consoles. Modifications to this console may be required to install sunroofs in these vehicles. SFC Sunroofs does not provide exact specifications for this modification. Each vehicle may require a customized installation.
D	It is necessary to move the domelight. In most cases, you may reuse the original mounting bow or a section of it. Make sure that this mounting bow is grounded if it had been used as a ground in its original installation. Always remove the domelight fuse before cutting to prevent an electrical short.
Δ	This sunroof will fit in the vehicle listed. It will require expert installation and placement to assure a proper fit. Because of the intricacies of this installation, a setback measurement or notes may not be given.
Ds	A double steel roof is indicated by this symbol. Be aware of this factor when cutting the vehicle's roof and when determining the trim ring that you use.
F	A Newport 1828 (non Dual Contour) sunroof is recommended for this application. This version of the NP1828 is not dual contoured, and fits better in vehicles with flatter roofs.
W	A wrapped headliner installation is recommended by this note. This may allow a closer fit to the side rails or the header of the vehicle, and will give any vehicle an OEM appearance.

2003 Sunroof Application Guide

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SFC and CRL do not accept responsibility for any sunroof location. Shaded areas reflect a general recommendation. Further information is available in our Instructions and Troubleshooting Guide.

2003	1530	1735	1432	1528	1636	1732	1828	ES100	ES300 ES500	2032	2238	Comment
MAKE/MODEL	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	
ACURA	All Inspected Vehicles Have Factory Installed Sunroofs											
AUDI	All Inspected Vehicles Have Factory Installed Sunroofs											
A4 Avant	All Inspected Vehicles Have Factory Installed Sunroofs											
A4,S4	10,B		10,B	10,B		10,B	10,B	12,B	12,B	10,B		
A6, RS6	All Inspected Vehicles Have Factory Installed Sunroofs											
A6 Avant Wagon	10	10	10	10		10	10,F	12	12	10		
A8	All Inspected Vehicles Have Factory Installed Sunroofs											
Allroad	All Inspected Vehicles Have Factory Installed Sunroofs											
TT Coupe							12					
BMW	All Inspected Vehicles Have Factory Installed Sunroofs											
BUICK	All Inspected Vehicles Have Factory Installed Sunroofs											
Century	9,B		9,B	9,B		9,B	12,B	14,B	14,B	12,B		
Le Sabre	14,B	14,B	14,B	14,B	14,B	14,B	14,B	16,B	16,B	14,B		
Park Avenue / Ultra	13,B		13,B	13,B		13,B	13,B	15,B	15,B	13,B		
2004 Rainier	10,B,W		10,B,W	10,B,W		10,B,W	10,B,W	9,B,W	9,B,W	9,B,W		console
Regal	11,B		11,B	11,B		11,B	10,B	13,B	11,D,B	9,D,B		
Rendezvous	11,B,W		11,B,W	11,B,W		11,B,W	11,B,W	12,B,W	12,B,W	9,B,W		console
CADILLAC	All Inspected Vehicles Have Factory Installed Sunroofs											
CTS	12,B		12,B	12,B		12,B	12,B	12,B	12,B	12,B		
DeVille						12,B	12,B,F	14,B	14,B	12,B		
Escalade	10,Ds	10,Ds	10,Ds	10,Ds	10,Ds	10,Ds		9,Ds	8,Ds	8,Ds		console
Escalade ESV			17,B	17,B	17,B							console
Seville						12,B	12,B,F	14,B	14,B	12,B		
CHEVROLET	All Inspected Vehicles Have Factory Installed Sunroofs											
Astro Van			Δ	Δ								flatten ribs
Avalanche			17,B	17,B	17,B							console
Blazer	9	9	9	9	9	9	9	10,D	10,D	8,W,D		console
Cavalier 2 Dr				9,D			10,D					wide side rails
Express Van					Δ							flatten ribs
Impala	12,B		12,B	12,B		12,B	12,B,F	14,B	14,B	12,B		
Malibu	14,D,B		15,D,B	8,B		12,D,B	11,D,B	11,D,B	11,D,B	10,D,B		
Monte Carlo	12,B		12,B	12,B		11,B	10,D,B	12,D,B	12,D,B	16,D,B		deep contour in front
S-10 Pickup Extended Cab	9	9	9	9	9	9	9	11,B	11,B	9,B	9,B,W	
S-10 Pickup Standard Cab	9	9	9	9	9	9	9	11,D	11,D	8,W,D		
Silverado Crew Cab	12B		12B	12B	12							console, ribbed roof
Silverado Extended Cab	12B		12,B	12,B	11,B	11,B		11,B	10,B	10,B		console
Silverado Standard Cab	12B		12,B	12,B	11,B	11,B		11,D,B	10,D,B	10,D,B		console
Suburban	10,B	10,B	10,B	10,B	10,B	10,B		9,B	8,B	8,B		console
Tahoe	10,B	10,B	10,B	10,B	10,B	10,B		9,B	8,B	8,B		console
Trailblazer	10,B,W		10,B,W	10,B,W		10,B,W	10,B,W	9,B,W	9,B,W	9,B,W		console
Tracker	7		7	7		7	7,F	9,D,B	9,D,B			ribbed roof
Venture									13,B	11,B		console
CHRYSLER	All Inspected Vehicles Have Factory Installed Sunroofs											
300M	14,B		14,B	14,B		14,B	14,B	15,B	15,B	14,B		
Concorde	14,B		14,B	14,B		14,B	14,B	15,B	15,B	14,B		console
PT Cruiser	12		12	12		12	12	12	12	12		
Sebring 4 Dr	10		10	10		13,D,B	12,D,B	11,D,B	11,D,B	10,D,B		
Sebring Coupe							12,B					4" drop in headliner
Town & Country, Voyager	10,B		10,B	10,B	10,B	10,B	10,B	12,B	12,B	10,B		console
DODGE	All Inspected Vehicles Have Factory Installed Sunroofs											
Caravan	10,B		10,B	10,B	10,B	10,B	10,B	11,B	11,B	10,B		console
Dakota Pickup Ext Cab	10		10	10	10	10		11				console
Dakota Pickup Quad Cab	No roof recommended											
Dakota Pickup Std Cab	10		10	10	10	10		11				ribs, console
Durango	7,D		7,D		7,D,D	7,D						no genesis, console
Ram Van/Wagon	12				12				12	12	12	
Intrepid	14,B		14,B	14,B		14,B	14,B	15,B	15,B	14,B		
Neon	9,D		9,D	9,D		9,D	9,D,B	9,D,B				
Ram Pickup Quad Cab	14.5,D		14.5,D	14.5,D	14.5,D							console
Ram Pickup Standard Cab	14.5,D		14.5,D	14.5,D	14.5,D							

D=Move Domelight

B=Roof Bow

Ds=Double Steel Roof

W=Wrapped Install Recommended

F=Single Contour 1828 Only

Δ=Difficult Installation (Tight Fit)

Console=Console Modification Required w/some trim packages

2003	1530	1735	1432	1528	1636	1732	1828	ES100	ES300 ES500	2032	2238	Comment	
MAKE/MODEL	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes		
DODGE Continued													
Stratus Coupe							12,B					4" drop in headliner	
Stratus Sedan	10		10	10			13,D,B	12,D,B	11,D,B	11,D,B	10,D,B		
FORD													
Crown Victoria							13,D,B	12,D,B	14,D,B	14,D,B	12,D,B		
Econoline Van			10,D	10,D	10,D							fill roof ridges	
Escape	12,B		12	12			12,B	12,B	13,D,B	13,D,B	15,D,B	ribs, console	
Escort ZX2	7,B		7,B	8,B			11,D,B	10,D,B	10,D,B	10,D,B	8,D,B		
Excursion	11,B		11,B	11,B			13,D,B	12,D,B	13,D,B	13,D,B	11,D,B	ribs, console	
Expedition	11,B		11,B	11,B			13,D,B	12,D,B	13,D,B	13,D,B	11,D,B	ribs, console	
Explorer			12	12			12		12,B	12,B	12,B	ribs, console	
Explorer Sport Trac	12,B		12	12			12,B	12,B	13,D,B	13,D,B	15,D,B	ribs, console	
F-150 Extended Cab	10		10	10	10	10	11	12	12	12	10		
F-150 Standard Cab	10,B		10,B	10,B	10,B	10,B	10,D,B	11,D,B	11,D,B	11,D,B	10,D,B		
F-150 Supercrew					10	10						ribs, console	
F-250 Extended Cab	10,B		10,B	10,B	10,B	10,B	11,B	12,B	12,B	12,B	10,B		
F-250 Standard Cab	10,B		10,B	10,B	10,B	10,B	11,B	12,B	12,B	12,B	10,B		
Focus	10		10	10			10	10	10	10	10		
Superduty Pickup 250/350	10,B		10,B	10,B	10,B	10,B	11,B	12,B	12,B	12,B	10,B		
Mustang	8,B		8,B	8,B			9,D,B	10,D,B	10,D,B	10,D,B	9,D,B		
Ranger Extended Cab	8,B		9,B	9,B	7,B	7,B	11,D,B	9,D,B	9,D,B	9,D,B	9,D,B		
Ranger Standard Cab	9,B		9,B	9,B	8,B	8,B		10,B					
Taurus	9		10	10			12,D,B	10,D,B	12,D,B	11,D,B	10,D,B		
Taurus Wagon	10		10	10			9,D,B		11,D,B				
Windstar Van	10		10	10			10	12,D,B	11,D,B	11,D,B	11,D,B		
GMC													
Envoy	10,B,W		10,B,W	10,B,W			10,B,W	10,B,W	9,B,W	9,B,W	9,B,W	console	
Safari			Δ	Δ									
Savana Van					Δ							flatten ribs	
Sierra Crew Cab	12B		12B	12B	12							console, ribbed roof	
Sierra Extended Cab	12B		12,B	12,B	11,B	11,B		11,B	10,B	10,B		console	
Sierra Standard Cab	12B		12,B	12,B	11,B	11,B		11,D,B	10,D,B	10,D,B		console	
Sonoma Pickup Extended	9	9	9	9	9	9	9	10	10,B	9,B	9,B,W		
Sonoma Pickup Standard	9	9	9	9	9	9	9	10	10,D	8,W,D			
Suburban	10,B	10,B	10,B	10,B	10,B	10,B		9,B	8,B	8,B		console	
Yukon	10,B	10,B	10,B	10,B	10,B	10,B		9,B	8,B	8,B		console	
HONDA													
Accord	14,D,B		15,D,B	10,B			12,D,B	12,D,B	12,D,B	12,D,B	11,D,B	large rear brace (coupe)	
Civic 2 Dr, 3 Dr	11,B		11,B	10,B			9,B	11,D,B	11,D,B	11,D,B	11,D,B		
Civic 4 Dr	10,B		10,B	10,B			13,D,B	12,D,B	12,D,B	12,D,B	10,D,B		
CR-V	11,B		11,B	11,B			11,B	11,B	12,D,B	12,D,B	11,D,B		
Element								16				ribbed roof, console	
Insight	12		12	12			15,D,B	14,D,B	12,D,B	12,D,B	12,D,B		
Odyssey	13,B		13,B	13,B			13,B	13,B	15,B	15,B	13,B	console	
Passport	10	10	10	10	10	10	10	12	12	12	10		
Pilot	11,B	11,B	11,B	11,B	11,B	13,B	13,B	11,B	11,B				
HYUNDAI													
Accent	12,D,B			9			10,D,B						
Elantra	9		9	9			7	13,D,B	11,D,B	11,D,B	11,D,B		
Elantra Wagon	No Sunroof Recommended Due to Multi-level Roof												
Santa Fe								14,B	14,B	14,B		ribbed roof	
Sonata	11,B		11,B	11,B			11,B	10,B	12,D,B	12,D,B	12,D,B		
Tiburon	8,B		8,B	8,B			12,D,B	11,D,B	10,D,B	10,D,B	9,D,B		
XG350								15,D,B	15,D,B	15,D,B	13,D,B		
INFINITI													
G35, I35, FX45, M45, Q45	All Inspected Vehicles Have Factory Installed Sunroofs												
QX4	15,B		15,B	15,B			15,B						
ISUZU													
Ascender	10,B,W		10,B,W	10,B,W			10,B,W	10,B,W	9,B,W	9,B,W	9,B,W	console	
Axiom	13		13	13			13		13,D,B	13,D,B	15,D,B	console	
Rodeo	10	10	10	10	10	10	10	10	12	12	10		
Rodeo Sport	10	10	10	10	10	10	10	10	11	11	10		
JEEP													
Grand Cherokee			15				15		15	15	15	flatten ribs in rear	
Liberty	14,B		14,B	14,B			14,B	14,B,F	15,B	15,B	14,B	console, ribbed roof	
Wrangler	6		6	6			6	6	6	6	6	6	ribs, fiberglass

2003	1530	1735	1432	1528	1636	1732	1828	ES100	ES300 ES500	2032	2238	Comment
MAKE/MODEL	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	
KIA												
Optima	18		13,B	13,B		16,D,B	15,D,B	13,D,B	13,D,B	13,D,B		
Rio	14,D,B		15,D,B	15,D,B		12,D,B	12,D,B	12,D,B	12,D,B	12,D,B		
Sedona			13,B	13,B		13,B	13,B	13,B	13,B	13,B		console
Sorento	12		12	12		12,B	12,B	15,D,B	15,D,B	12,B		console
Spectra	17,D,B						14,D,B					
LAND ROVER												
Discovery II	19	19	19	19	19	19	19	21	21	19		
Freelander	13		13	13		13	13	13	13	13		
Range Rover	All Inspected Vehicles Have Factory Installed Sunroofs											
LEXUS												
All Inspected Vehicles Have Factory Installed Sunroofs												
LINCOLN												
Aviator			12	12		12		12,B	12,B	12,B		ribs, console
LS	15,B		15,B	15,B		15,B	15,B	16,B	16,B	15,B		
Navigator	11,B		11,B	11,B		13,D,B	12,D,B	13,D,B	13,D,B	11,D,B		ribs, console
Town Car	12		12	12		11	11	12,B	12,B	13,B		
MAZDA												
Mazda 6	10	9	10	10		10	9	11,D,B	11,D,B	13,D,B		
MPV		Δ				Δ	Δ					console must be optional fiberglass top
MX-5 Miata	8		8									
Pickup Extended Cab	8,B		9,B	9,B		7,B	7,B	11,D,B	9,D,B	9,D,B	9,D,B	
Pickup Standard Cab	9,B		9,B	9,B		8,B	8,B					
Protégé	13,D,B		9	9		13,D,B	12,D,B	12,D,B	12,D,B	10,D,B		
Tribute	12,B		12	12		12,B	12,B	13,D,B	13,D,B	15,D,B		ribs, console
MERCEDES BENZ												
All Inspected Vehicles Have Factory Installed Sunroofs												
MERCURY												
Grand Marquis		13,D,B				14,D,B	13,D,B	12,D,B	12,D,B	12,D,B	10,D,B	
Maurader		13,D,B				14,D,B	13,D,B	12,D,B	12,D,B	12,D,B	10,D,B	
Mountaineer			12	12		12		12,B	12,B	12,B		ribs, console
Sable	9		10	10		12,D,B	10,D,B	11,D,B	11,D,B	10,D,B		
Sable Wagon	9		10	10		9,D,B						
MINI												
Cooper				15				15,F	15			
MITSUBISHI												
Diamante	10,B		10,B	10,B		10,B	10,B	12,B	12,B	10,B		
Eclipse	11		11	11		11	11	13	13	11		
Galant	10		10	10								heavy brace
Lancer	11		11	11		14,D,B	13,D,B	11,D,B	11,D,B	11,D,B		
Montero Sport	10,B	10,B	10,B	10,B	10,B	10,B	10,B	12,B	12,B	10,B		console
Montero	8.5	8.5	8.5	8.5	8.5	8.5	8.5	10	10	8.5	13,D,B	
Outlander	11		11	12		10	16,D,B	13,D,B	13,D,B	12,D,B		
NISSAN												
Altima	12,B		12,B	12,B		14,D,B	13,D,B	12,D,B	12,D,B	12,D,B		
Frontier Pickup Crew Cab	9, B	9, B	9, B	9, B	9, B	9, B	9, B	9, B	9, B	9, B	9, B	
Frontier Pickup Extended	9	9	9	9	9	9	9	10	10	9		
Frontier Pickup Standard	9	9	9	9	9	9	9	9	9	7.5		
Maxima	12		13	13		17,D,B	16,D,B	15,D,B	15,D,B	14,D,B		
Murano	12	12	12	12		17	17	15,D,B	15,D,B	15,D,B		
Pathfinder	15,B		15,B	15,B		15,B						
Sentra						13,D,B	12,D,B	11,D,B		12,D,B		
Xterra	9		9	9	9	9						
OLDSMOBILE												
Alero	12,D,B		13,D,B	12,D,B		12,D,B	12,D,B	12,D,B	12,D,B	12,D,B		
Aurora	13,B		13,B	13,B		13,B	13,B	15,B	15,B	13,B		console
Bravada	10,B,W		10,B,W	10,B,W		10,B,W	10,B,W	9,B,W	9,B,W	9,B,W		console
Silhouette									12,B	11,B		console
PONTIAC												
Aztek	10,B		10,B	10,B	10,B	10,B	10,B	11,B	11,B	10,B		
Bonneville	13,B		13,B	13,B		13,B	13,B	15,B	15,B	13,B		console
Grand Am	12,D,B		13,D,B	12,D,B		12,D,B	12,D,B	12,D,B	12,D,B	12,D,B		
Grand Prix	11,B		11,B	11,B		11,B	11,B	13,B	13,B	11,B		console
Montana									12,D	11,D		console
Sunfire	9,D					9,D	9,D	11,D	11,D	9,D		console
Vibe	10,B		10,B	10,B		10,B	10,B	9,B	9,B	9,B		
SAAB												
9-3	14		14	14		14	14	16	16			
9-5	14		14	14		14	14	16	16			

2003	1530	1735	1432	1528	1636	1732	1828	ES100	ES300 ES500	2032	2238	Comment
MAKE/MODEL	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	Depth,Notes	
SATURN												
L-Series	10		10	10		9	16,D,B	12,D,B	12,D,B	13,D,B		
Ion				10			10,D					
Vue	13,B		13,B	13,B		13,B	13,B	13,B	13,B	13,B		ribbed roof
SUBARU												
Baja	11,B		11,B	12,B								
Forester							15,D,B					roof rack, heavy brace
Impreza 2 Dr	9,B		9,B	9,B		12,D,B	11,D,B	11,D,B	11,D,B	9,D,B		
Impreza 4 Dr	9		9	9		9	11,D,B	11,D,B	11,D,B	9,D,B		
Impreza Wagon			7	7								roof rack
Impreza WRX	9,B		9,B	9,B		12,D,B	11,D,B	11,D,B	11,D,B	9,D,B		
Legacy	11,B		11,B	12,B		13,D,B	12,D,B	12,D,B	12,D,B	10,D,B		
Legacy Outback Wagon	No Sunroof Recommended Due to Multi-level Roof											
Legacy Wagon	11		11	11								
SCION												
2004 X A							12					
2004 X B							12					
SUZUKI												
Aerio	15,D,B						13,D,B	13,D,B				
Grand Vitara	7		7	7		7	7,F	9,D,B	9,D,B			ribbed roof
Vitara	7		7	7		7	7,F	9,D,B	9,D,B			ribbed roof
XL-7	10		10	10		8						ribbed roof
TOYOTA												
4-Runner	8.5		8.5	8.5	8.5	8.5	8.5	10	10	8.5		
Avalon	16,D,B					14,D,B	14,D,B	16,D,B	16,D,B	14,D,B		
Camry	10,B		11,B	11,B		12,D,B	11,D,B	12,D,B	12,D,B	10,D,B		
Celica	10,B		10,B	10,B		10,B	10,B	12,B	12,B	10,B		
Corolla	14,B		14,B	14,B		14,B		16,D,B	16,D,B	18,D,B		
ECHO	9		9	9		9	9	9	9	9		
Highlander	14		14	14	14	14	14	14	14	14		console
Land Cruiser	All Inspected Vehicles Have Factory Installed Sunroofs											
Matrix	10,B		10,B	10,B		10,B	10,B	9,B	9,B	9,B		
Prius	10		10	11		13,D,B	13,D,B	10,D,B	10,D,B	10,D,B		
RAV4	13,B		13,B	13,B		13,B	13,B	13,B	13,B	13,B		
Sequoia	12		12	12	12	12	12	12	12	12		console
Sienna	17,B	17,B	17,B	17,B		17,B	17,B			17,B		
Solara	10,B		11,B	11,B		10,D,B	12,D,B	12,D,B	12,D,B	10,D,B		
Tacoma 4 Dr	10		10	10		10	10,F	10	10	10		
Tacoma Extended Cab	9	9	9	9	9	9	8	9	9	7	7	
Tacoma Standard Cab	9	8	9	9	9	9	8	10				
Tundra	12	12	12	12	12	12	12	11	11	11		
VOLKSWAGEN												
Beetle				16			16					
EuroVan	11		11	11								
Golf & GTI	11,B		11,B	11,B		11,B	11,B,F	12,B	12,B	11,B		
Jetta, Jetta Wagon	11,B		11,B	11,B		11,B	11,B,F	12,B	12,B	11,B		
Passat	12,B		12,B	12,B		12,B	12,B	14,B	14,B	12,B		
Passat Wagon	12		12	12		12,D,B	12,D,B					
Touareg			14									console
VOLVO												
C70,S70,V70	12		12	12		12,B	12,B	12,B	12,B	12,B		
S40,V40	10		10	10		10	10,B	10,B	10,B	10,B		
S60,V60	12		12	12		12,B	12,B	12,B	12,B	12,B		
S80	All Inspected Vehicles Have Factory Installed Sunroofs											
XC90	13,B		13,B	13,B								ribbed roof