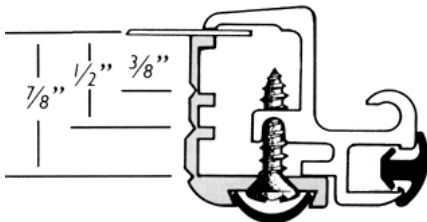


INSTALLATION SPECIFICATIONS AND INFORMATION 2005 MODEL YEAR

Proper Location of Sunroof

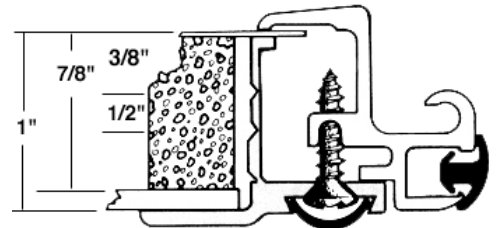
NOTE: These specifications are intended to be guidelines only. Car manufacturers may change specifications without notice. Determine the front to back position of the sunroof by placing the template inside the vehicle and determining the best possible position on the headliner. Transfer this position 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 centerline 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.



T5 Universal Trim Ring

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



T6 Molded Trim Ring

Interior Trim Ring Selection

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 thickness. 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 January 31, 2005

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	This note recommends a wrapped headliner installation. This may allow a closer fit to the side rails or the header of the vehicle, and will give any vehicle an OEM appearance.

2005 Sunroof Application Guide

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2005	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												
A4 Avant	All Inspected Vehicles Have Factory Installed Sunroofs											
A4,S4, A8	All Inspected Vehicles Have Factory Installed Sunroofs											
A6, RS6, A6 Avant Wagon	All Inspected Vehicles Have Factory Installed Sunroofs											
Allroad	All Inspected Vehicles Have Factory Installed Sunroofs											
TT Coupe							12					c
BMW	All Inspected Vehicles Have Factory Installed Sunroofs											
BUICK												
LaCrosse	12,B		12,B	12,B		12,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		
Rainier	15,B,W		15,B,W	15,B,W		15,B,W	15,B,W	15,B,W	15,B,W	15,B,W		Console
Rendezvous												Console Front to Rear
Terraza												Console Front to Rear
CADILLAC												
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 and EXT			17,B	17,B	17,B							Console
STS						12,B	12,B,F	14,B	14,B	12,B		
CHEVROLET												
Astro Van			Δ	Δ								Flatten ribs
Avalanche			17,B	17,B	17,B							Console
Aveo	11		11	11		11	11	13,B	13,B	11		
Cobalt	11,B		11,B	11,B		11,B	11,B	13,B	13,B	11,B		
Colorado Std. Cab	13,D,B		14,D,B	13D,B		13,D,B	13,D,B	13,D,B				
Colorado Ext. Cab	13,D,B		14,D,B	13D,B		13,D,B	13,D,B	13,D,B	14,D,B	14,D,B		
Colorado Crew Cab	13,D,B		14,D,B	13D,B		13,D,B	13,D,B	13,D,B	14,D,B	14,D,B		
Equinox	12		12	12		12	12	12	16,D,B	17,D,B		
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	14,B		14,D,B	14,D,B	14,D,B	14,D,B	14,D,B		
Malibu Maxx	12,D,B		12,D,B	12,D,B		12,D,B	12,D,B	14,D,B	14,D,B	12,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
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	14,B,W		14,B,W	14,B,W		14,B,W	14,B,W	14,B,W	14,B,W	14,B,W		Console
Uplander												Console front to rear
Venture									13,B	11,B		Console
CHRYSLER												
300	15,B		15,B	15,B		15,B	15,B	16,B	16,B	15,B		
Cross Fire							10					Dual contour
PT Cruiser	12		12	12		12	12	11	11	12		
Pacifica	14,B		14,B	14,B		14,B	14,B			14,B		
Sebring Coupe							13,B					4" drop in headliner
Town & Country, Voyager												Console front to rear
DODGE												
Caravan												Console front to Rear
Dakota Pickup Ext Cab			13									Console
Dakota Pickup Quad Cab	No roof recommended											
Dakota Pickup Std Cab			13									Ribs, console
Durango	17,D		17,D		17,D	17,D				17,D		No genesis, console
Magnum	16,B		16,B	16,B		16,B	16,B	18,B	18,B	16,B		
Neon & SRT	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							
Sprinter Van Low Top	Stamp											Fit Roof Stamping
Stratus Coupe							12,B					4" drop in headliner

2005	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 (cont)												
Stratus Sedan	13		13	13		13,D,B	13D,B	14,D,B	14,D,B	13,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		Console
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 Ext. Cab Heritage	10		10	10	10	10	11	12	12	10		
F-150 Std. Cab Heritage	10,B		10,B	10,B	10,B	10,B	10,D,B	11,D,B	11,D,B	10,D,B		
F-150 Supercrew Heritage					10	10						Ribs, console
F-150 Ext. Cab	13	13	13	13	13	13	13	13	13	13		Ribs, console
F-150 Std. Cab	13	13	13	13	13	13	13	13	13	13		Ribs, console
F-150 Supercrew	13	13	13	13	13	13	13	13	13	13		Ribs, console
Freestar	20,B	20,B	20,B	20,B	20,B	20,B	20,B	20,B	20,B	20,B		Console
Freestyle	16,B		16,B	16,B		16,B	16,B	16,B	16,B	16,B		
Focus	22		22	20		22	22	22	22	22		Long console
Superduty Pickup 250/350	10,B		10,B	10,B	10,B	10,B	11,B	12,B	12,B	10,B		Front reinforcement
Mustang	8,B		8,B	8,B			9,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		
Ranger Standard Cab	9,B		9,B	9,B	8,B	8,B		10,B				
Taurus	9		9	9		12,D,B	11,D,B	12,D,B	11,D,B	10,D,B		
Taurus Wagon	10		10	10		9,D,B		11,D,B				
GMC												
Envoy	14,B,W		14,B,W	14,B,W		14,B,W	14,B,W	14,B,W	14,B,W	14,B,W		Console
Canyon Std. Cab	13,D,B		14,D,B	13D,B		13,D,B	13,D,B	13,D,B				
Canyon Ext. Cab	13,D,B		14,D,B	13D,B		13,D,B	13,D,B	13,D,B	14,D,B	14,D,B		
Canyon Crew Cab	13,D,B		14,D,B	13D,B		13,D,B	13,D,B	13,D,B	14,D,B	14,D,B		
Safari			Δ	Δ								Flatten ribs
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
Yukon	10,B	10,B	10,B	10,B	10,B	10,B		9,B	8,B	8,B		Console
HONDA												
Accord	15,DB		16,D,B	15,D,B		13,D,B	13,D,B	13,D,B	13,D,B	13,D,B		
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	11		11	11		11,D,B	11,D,B	11,D,B	11,D,B	11,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	10		
Pilot	11,B	11,B	11,B	11,B	11,B	13,B	13,B	11,B	11,B			
HYUNDAI												
Accent GL	12,D,B			12,D,B			10,D,B					
Accent GT	12,D,B		13,D,B	12,D,B		11,D,B	10,D,B	10,D,B	10,D,B	10,D,B		
Elantra GLS	12		12	12		12	15,D,B	14,D,B	14,D,B	13,D,B		
Santa Fe	12		12	12		12	12	15,B	15,B	12,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		
Tucson	13		13	13		13	17,D,B	16,D,B	15,D,B	16,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	All Inspected Vehicles Have Factory Installed Sunroofs											
ISUZU												
Ascender	16,B,W		16,B,W	16,B,W								Console
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	6	6	Ribs, fiberglass

2005	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												
Amanti	14		14	14		14	14	14	14	14		
Optima	12		12	12		16,D,B	15,D,B	13,D,B	13,D,B	13,D,B		
Rio Sedan	12,D,B		14,D,B	12,D,B		12,D,B	12,D,B	14,D,B	14,D,B	14,D,B		
Rio Cinco	14,D,B		14,D,B	14,D,B		14,D,B	14,D,B	14,D,B	14,D,B	14,D,B		
Sedona	14		14,B	14,B		14,B	14,B	14,B	14,B	14,B		Console
Sorento	14		14	14		14,B	14,B	15,D,B	15,D,B	14,B		Console
Spectra SX	13,D,B		13,D,B	13,D,B		13,D,B	14,D,B					
Spectra 5							12					
Sportage	14		14	14		14,B	14,B	15,D,B	15,D,B	14,B		
LAND ROVER												
Freelander	13		13	13		13	13	13	13	13		
LR3	All Inspected Vehicles Have Factory Installed Sunroofs											
Range Rover	All Inspected Vehicles Have Factory Installed Sunroofs											
LEXUS												
All Inspected Vehicles Have Factory Installed Sunroofs												
LINCOLN												
Aviator			20,B	20,B		20,B		21,B	21,B	20,B		Ribs, console
LS	15,B		15,B	15,B		15,B	15,B	16,B	16,B	15,B		
LT	13	13	13	13	13	13	13	13	13	13		Ribs, console
Navigator	11,B		11,B	11,B	11,B	13,D,B	12,D,B	13,D,B	13,D,B	11,D,B		
Town Car	14		14	14		14	14	14,B	14,B	14,B		
MAZDA												
Mazda 3 4 Door	11		11	11		11	11	10	10	11		
Mazda 3 5 Door	11		11	11		11	11	10	10	11		
Mazda 6 Sedan	14,B		14,B	14,B		14,B	14,B	14,B	14,B	14,B		
Mazda 6 Wagon	14,B		14,B	14,B		14,B	14,B	14,B	14,B	14,B		
MPV		Δ			Δ	Δ						Console must be cut
MX-5 Miata	8		8									Optional fiberglass top
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						
RX-8	14		14	14		14	14			14		
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		15,B			15,B	15,B	15,B	15,B	15,B	15,B		
Mariner	11		11	11		11	11	11	11	11		
Montego	13,B		13,B	13,B		13,B	13,B	13,B	13,B	13,B		
Monterey												Console front to aft
Mountaineer			15	15		15						Ribs, console
Sable	9		10	10		12,D,B	10,D,B	11,D,B	11,D,B	10,D,B		
MINI												
Cooper				15			15,F	15				
MITSUBISHI												
Eclipse	11		11	11		11	11	13	13	11		
Endeavor	15		15	15	15	15	15	16	16	15		
Galant	12		12	12		12	12	17,D,B	17,D,B	12		Heavy brace
Lancer	11		11	11		14,D,B	13,D,B	11,D,B	11,D,B	11,D,B		
Montero	12		12	12	12	12	12					
Outlander	11		11	12		10	16,D,B	13,D,B	13,D,B	12,D,B		
NISSAN												
Altima	15,B		15,B	15,B		15,D,B	15,D,B	15,D,B	15,D,B	15,D,B		
Armada	14	14	14	14	14	14						Console
Frontier Pickup Crew Cab	14, B		14, B	14, B	14, B	14, B	14, B	14, B	14, B	14, B	14, B	
Frontier Pickup Extended	14, B		14, B	14, B	14, B	14, B	14, B	14, B	14, B	14, B	14, B	
Frontier Pickup Standard	14, B		14, B	14, B	14, B	14, B	14, B					
Maxima	15		15	15		17,D,B	16,D,B	16,D,B	16,D,B	15,D,B		
Murano	14	14	14	14		14	14	15,D,B	15,D,B	14,D,B		
Pathfinder	15,B		15,B	15,B		15,B						
Quest	16		16	16	16	16	16	17		16		
Titan	14	14	14	14	14	14						Console
Sentra	12		12	12		12,D,B	12,D,B	13,D,B		12,D,B		
Xterra	14,W		14,W	14,W	14,W	14,W						
Z350			13									
PONTIAC												
Bonneville	13,B		13,B	13,B		13,B	13,B	15,B	15,B	13,B		Console
G6	14,D,B		14,D,B	14,D,B		14,D,B	14,D,B	15,DB	15,D,B	14,D,B		
Grand Prix	16,B		16,B	16,B		16,B	16,B	18,B	18,B	16,B		Console
GTO						11,D,B	10,D,B	10,DB	10,DB	10D,B		
Montana									12,D	11,D		Ribs, console

2005	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	
PONTIAC (cont)												
Torrent	14,D,B		14,D,B	14,D,B		14,D,B	14,D,B	15,DB	15,D,B	14,D,B		
Vibe	12,B		12,B	12,B		12,B	12,B	13,B	13,B	12,B		
SAAB												
9-2, 9-3, 9-5 and 9-7											All Inspected Vehicles Have Factory Installed Sunroofs	
SATURN												
Ion				10			10,D					
Relay												Console front to aft
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			11,D,B	11,D,B		11,D,B	11,D,B	13,D,B	13,D,B	11,D,B		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	12,B		12,B	12,B		12,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	13		13	13		13	13	14	14	13		
SUZUKI												
Aerio LX	15,D,B						13,D,B	13,D,B				
Aerio XS Hatchback	13,D,B		13,D,B	13,D,B		13,D,B	13,D,B	13,D,B	13,D,B	13,D,B		
Forenza	11		11	11		11	16,D,B	16,D,B	16,D,B	16,D,B		
Grand Vitara	11		11	11		11	11,F	15,D,B	15,D,B	15,D,B		Ribbed roof
Reno	11		11	11		11						
Verona	13		13	13		13	13	14		13		
XL-7	18,D,B		18,D,B	18,D,B		18,D,B						Ribbed roof
TOYOTA												
4-Runner	14		14	14	14	14	14	11	16	16		Large step on headliner
Avalon												
Vehicle Under re-design												
Camry	13,B		13,B	13,B		13,D,B	13,D,B	14,D,B	14,D,B	13,D,B		
Celica	10,B		10,B	10,B		10,B	10,B	12,B	12,B	10,B		
Corolla	12,B		12,B	12,B		15,D,B	15,D,B	16,D,B	16,D,B	15,D,B		
ECHO	9		9	9		9	9	9	9	9		
Highlander	14		14	14	14	14,D,B	14,D,B	14,D,B	14,D,B	14,D,B		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	15		15	15		15,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	14,B	14,B	14,B	14,B		14,B						
Solara	14,B		14,B	14,B		14,D,B	14,D,B	14,D,B	14,D,B	14,D,B		
Tacoma 4 Dr	18,D,B		18,D,B	18,D,B		18,D,B	18,D,B	18,D,B	18,D,B	18,D,B		
Tacoma Extended Cab	18,D,B		18,D,B	18,D,B		18,D,B	18,D,B	18,D,B	18,D,B	18,D,B		
Tacoma Standard Cab	18,D,B		18,D,B	18,D,B		18,D,B						
Tundra	12	12	12	12	12	12	12	11	11	11		
VOLKSWAGEN												
Beetle				16			16					Dual Contour
Golf & GTI							15,B,F					
Jetta, Jetta Wagon	16,B		16,B	16,B		16,B	18,B,F					
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												
40, S60, S60R, S80												
All Inspected Vehicles Have Factory Installed Sunroofs												
V50, V70, V70R												
All Inspected Vehicles Have Factory Installed Sunroofs												
XC70, XC90												
All Inspected Vehicles Have Factory Installed Sunroofs												