



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
PTR12007

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

RFQ COPY

VENDOR

TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF PUBLIC TRANSIT
 BUILDING 5, ROOM 906
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305-0432 304-558-0428

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/17/2012				

BID OPENING DATE: 03/06/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 3 *****						
THIS ADDENDUM IS ISSUED TO:						
1) PROVIDE THE ATTACHED TECHNICAL QUESTIONS AND ANSWERS.						
2) EXTEND THE BID OPENING DATE AND TIME TO 03/06/2012 AT 1:30 PM						
***** END ADDENDUM NO. 3 *****						
0001	1	EA		470-81-00-001		
158" DUAL WHEEL CUTAWAYS WITH AIR CONDITIONING,						
***** THIS IS THE END OF RFQ PTR12007 ***** TOTAL:						_____

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

PTR12007 Approved Equals
February 14th, 2012

Section	Page	Specification	Question or Request	Response
PART 1				
	2		Page 2 indicates the deadline to be 12/29/11 at 4 PM	On Addendum 2, the date for technical questions was 2/16/12 at 4:00 PM
	3	Quantities	Quantities are not listed or estimated in the requisition, can you please provide estimate	The specs stipulate 1-20
3.0		Renewal	Request that upon renewal state will allow possible manufacturer and chassis annual increase it is standard that there is a price increase due to material cost increases as standard in our economy	Requests can be submitted to purchasing at the time of contract renewal, but an annual increase cannot be determined ahead of time
4.0 A			Would the Division consider changing liquidated damages to be \$50 per working weekday when your delivery facility is open and prepared to accept vehicle deliveries?	Denied. Liquidated damages would only be assessed after the 150 day period would be exhausted and in the absence of a written notification of delay from the vendor.
4.1.2			Please provide the number of transit systems expected to purchase from this contract as well as the anticipated number of "other" agencies expected to purchase from this contract	Approximately 18, for us. Additionally, please note piggyback language 3.0 C.
4.12 (I believe that		Manual	Please clarify exact manual	1 of each listed in

should be 4.1.2)			and quantity to be provided to each recipient agency. IE Body up fitter manual, chassis manual, etc. Also please clarify what is meant by OEM operations manual	4.1.2 that would correlate with a workshop manual, parts catalog, wiring diagrams/ electrical schematics, owner's guide, warranty guide, and owner's manual for the vehicle itself and any added components
5.0		Title	Request for clarification: Is the state requiring specific documents to be obtained at the time or are you requiring MSOs from the vendor 10 days prior to delivery	10 days prior to delivery
6.0	5-6		Would the Division consider changing payment to 95% of the total cost upon conditional acceptance of the vehicle?	Denied. We feel 90-10 arrangement provides incentive to deliver complete vehicles ready to be put into service.
7.1/ 8.2		Approved Equals	Approved equals or other clarifications are to be submitted no less than 28 days from the bid opening date	The bid open will be pushed to March 6, 2012 to meet this requirement
24		Training	Request for revision to training. Training to be conducted annually at state determined location. 2 day training seminar provided by vendor and affiliates. Mutually agreed upon dates. Function of seminar to train in house driver staff in proper and safe on road operation of vehicle, limitations of vehicle and identification and proper operation of driver's controls. Vendor to provide also, proper training and	Accepted except for the following changes: Training will be held in two separate locations, 1 day each, with the option of additional training days, if necessary. The Division will handle arranging a venue and registration. The vendor will furnish the instructor and

			<p>maintenance of power train, electrical system. Heating and cooling, braking, and wheel chair lift operation. All visual and teaching aids to be provided by vendor.</p>	<p>materials.</p>
			<p>Please clarify the training requirements taking into consideration the state's interest in conducting training on a regional basis as well as requirements in previous procurements</p>	<p>Please see prior entry.</p>
<p>PART 2</p>				
<p>Enclosure labeled 2.1 (covered in the specs more fully at 8.0)</p>		<p>Body structure</p>	<p>Proposed standard construction in attachment.</p>	<p>Approved, but in the case of omission of a component or practice, our specs supercede the body structure description from the vendor</p>
<p>3.13</p>	<p>26</p>	<p>Two (2) ambulance style cooling ports</p>	<p>Please provide more details or visual confirm or clarify.</p>	<p>Approved. Ambulance style bilge will acceptable.</p>
<p>4.12</p>		<p>Manual</p>	<p>Please clarify exact manual and quantity to be provided to each recipient agency. IE Body up fitter manual, chassis manual, etc. Also please clarify what is meant by OEM operations manual</p>	<p>1 of each listed in 4.1.2. Some of the manuals would be the owner's manuals, owner's guide, warranty guides, wiring diagrams/electrical schematics, parts catalogs, as well as the requisite manuals for additional components.</p>
<p>5.3</p>			<p>Please confirm that all exterior lighting with the exception of OEM Chassis lighting, is to be LED type</p>	<p>Yes</p>

5.6.4		Intelligent Audible Alarm	Will the state approve the Hawkeye Plus Reverse Assistance System as an alternative to the Echovision system?	There's no 5.6.4 on the new specs. 5.7 is a backup camera system
5.7	30	All fuses and/or circuit breakers other than the OEM's chassis shall be placed in a waterproof electrical distribution panel located above the driver's door, accessible from inside the bus. Fuses will be automotive mini blade type fuses that plug into a Modular distribution block, such as Cooper Bussman Series 3000 VEC or approved equal.	Our body manufacturer uses a printed circuit board electronic control panel for the body circuits that includes easy identifying LED troubleshooting indicators. The board offers a 5 year parts and labor warranty and has been proven to be very reliable and robust in design. Please approve in lieu of the specified Bussman panel that we believe is used by only one manufacturer. An informational piece titled "Fuse Box RCT" is attached and more information can be supplied if requested.	Approved.
6.2	31	Brand Name	We believe ATC is a typo, and should be ACT.	Approved.
6.2 d			Will the state approve an in-wall evaporator as an alternative to a ceiling mounted evaporator?	Denied. Prefer ceiling mount.
6.3		Roof hatch	We request that you omit the word translucent from the specifications	Approved. It isn't in the new specs.
6.3		Roof Hatch	Please confirm that the requirement that the roof hatch be translucent has been removed	Confirmed. The word translucent has been removed.
8.1.3	32	Primer	In lieu of a petroleum-based primer, please accept our standard environmentally friendly, low VOC, water-based,	Approved.

			polymeric primer designed for transportation applications, as described in the attached literature. Z-Tech is a major supplier of coatings and primers for the transportation industry.	
8.2		Body Structure	Will the state approve the attached manufacturing description as an alternative to the specifications in this section, as described in the attachment provided?	Denied. There's no mention of how the steel members of the frame are connected, and we specify weld.
8.2			Please confirm that side panels above the floorline can be constructed of fiberglass reinforced plastic (FRP), steel, aluminum, or approved equal	Yes. The spec supports that variety of materials
8.2.1		Body panels	We request clarification as to if side wall of exterior are to be one piece with seam at skirt line only	The Division does require one piece sidewall exterior panels, as is specified in 8.2.1.
8.2.1	32		Will the division permit the use of two sided tape?	No
8.2.1		Stepwells	Stepwells cannot be of aluminum construction since it cannot be welded to steel which is required for the structure.	We request stainless steel stepwells undercoated with an approved product, such as CoraShield, Degacoat, Z-Guard or an approved equal, with RCA Talon Tread where it is heat treated to be a one piece component.
8.2.1	33	Stepwell Coating	In lieu of Rhino Lining, please accept the following: Underside of	Approved. See immediately above.

			stainless steel stepwell is coated with a petroleum based, transportation grade undercoating material, Z-Tech Z-Guard 20060-B-2, as described in the attached literature, as part of our standard body undercoating process. The top side of the steps and risers are covered with RCA Transit Flooring rubber step treads. Seams in the material are sealed with a color-matching durable caulk.	
8.4.2			Please confirm that the requirement to use Talon Tread has been removed	No. It appears in 8.4.3.
8.5			Please confirm that the desired rear bumper is the ROMEO rim HELP bumper	This is a suggested product.
8.5	34	The rear bumper shall be unpressurized, self-contained, self-restoring, energy absorbing bumpers of the HELP system, such as the ROMEO RIM or approved equal.	We request an approved for SMI rear energy absorbing bumper, documents provided titled	Approved.
8.6	34	Molding	Is it your intent to specify a rubber or polymer rub rail type molding on these units?	Yes.
9.2.5		Ambulatory Passenger Entrance Exit	Will the state approve an exterior programmable keypad lock to the electric door as an alternative to the key operated lock?	As long as there is a manual release and clear alternatives to opening the door in the event of a product failure
9.3.2		Striker plate for interlock system switch.	Elimination of the striker plate when a magnetic proximity switch for the	Approved.

			door ajar buzzer (and interlock) instead of a plunger switch	
9.3.3		Air Spring	Please better define your definition of air spring. Is it a gas strut?	A pneumatic arm to secure the door in the open position.
9.4	36	Emergency Exit Door	A 60" high rear door is specified. Our standard door has 57" of clear height opening. We respectfully request approval of a 57" high door.	Approved.
10.1	36	Lift Model	Please confirm the model number of the Braun lift to be required	Please change specifications to reference Braun Millennium II.
11.1		Height of seat back 22 inches max	If mid High freedman seats are desired, please adjust the height of seat back maximum over 22".	Increase seat height to 22 ½" to encompass low or mid high seats.
11.1	37	Leg on Flip Down Seat	The 4th paragraph on page 37 calls for the flip down seat to have an aisle leg for added support. Please accept the Freedman 3-Step Foldaway seat, as described in the attached literature. This seat utilizes a cantilevered design that eliminates the need for a support leg.	Approved.
11.1		Passenger Seats	Please clarify that either two seat belt extensions per seat or per bus are required	Per bus
11.1		Passenger Seats	Please accept that the Freedman foldaway seat does have a base that attaches to the floor, however it is not at the	Approved

			farthest point from the wall	
11.1		Passenger Seats	Please accept that if a wider aisle such as 17" or more is possible, passenger seats can be placed more than 1" off the wall to allow maximum comfort and access to seat belts for passengers	Approved
11.1		Passenger seat belts	Please clarify if the seatbelts are to be 2-pt retractable and that a 3-pt seatbelt will be included as an option	Yes
11.2			Please confirm the model required for the driver's seat	Freedman Sports Shield with Adnik Ford power slide, or an approved equal
11.2		Driver Seat	Please accept that the statement in driver's Seat area "Seats shall have FMVSS certified seatbelts with retractor attached to the seat frame " is not for the driver's seat. Ford OEM seat belt is used and there is a pass through FMVSS test for the belt	This section should read: The driver's seat shall be a freedman Sport Shield with an Adnik Ford power slide, or an approved equal. The seat belt should be appropriate for the seat and FMVSS compliant.
11.3	37	Wheelchair spacing	This section asks for the wheelchair positions to be spaced a minimum of 10" apart. The floor plan for the 2 wheelchair bus shows the L-track being spaced 6" apart (center-to-center), which should provide ample spacing.	Approved.
11.3		Mobility Aid Securement	Please acknowledge that the supplied bid floor plan has less than 10" between	Approved to a minimum of 6".

			WC positions. On a shorter vehicle such as this it is necessary to prevent intrusion into forward facing rigid seats causing operator difficulty attaching tie down securements.	
11.3		Mobility Aid Securement	Please acknowledge that QStraint L Track is acceptable with a QStraint tie down system as approved on PTR12006. Mixing of manufacturer's products is not allowed.	Approved
11.4.2	38	Passenger assists	Please confirm that the stanchion in 11.4.2 requiring pre-wire for farebox is behind the driver seat.	Yes.
11.4.4	39	Location of Modesty Panels	Please confirm that the stanchion referenced in 11.4.4 is a panel between the WC lift and the rearmost passenger seats	Please retain the modesty panel shown on the floor plan that appears between the last row of seats and the lift.
11.6		Modesty Panel	Please approve Plexiglass in lieu of Lexan for the driver barrier panel. Full FMVSS205 certifications are on file and the barriers are marked as such	Approved. Plexiglass of the specified thickness may be used.
12.1	39	Windshield shall be OEM tinted and shall have a graduated dark band at the top.	Please accept that OEM chassis no longer have a graduated dark band at the top and delete the requirement	Accepted.
12.2	39	Window Size	On narrow body buses, we typically install windows that are 24" wide x 36" high, in lieu of 36" x 36". Is this acceptable?	Approved as long as the emergency exit windows are in compliance

12.2			Vendor uses windows that are 36" tall by 45"wide	Approved.
13.1	39	Exterior Mirrors	Please accept Rosco Eurostyle Mirrors as compliant with your specification. Also, please advise if powder coated Rosco steel arm are compliant with the non-corrosive requirement.	Rosco Eurostyle model number 715H for driver's side and 717H for passenger, or an approved equal. The Rosco steel arm or approved equal is approved.
15.0		Mudflaps	Will the state approve the use of molded plastic mudflaps as an alternative to those made of rubber?	No. Rubber is preferred.
18.0		Emergency Safety Equipment	Please confirm the type of emergency blanket to be supplied	Per the specs, the section reads: two (2) folded, sealed, and stored Mylar disposable rescue blankets by certified Safety manufacturing or an approved equal.
19.3		Signage	Please clarify confirm the appropriate interior and exterior to be supplied	Please see 19.3, 19.3.1, 19.3.2, and 19.3.3
19.3.3		Exterior Reflective Vinyl Tape	Please clarify the correct location of the reflective tape surrounding the side emergency windows	Encircling the emergency exit windows
19.4		Undercoating	Please approve BASF Degacoat 310 undercoat. Produced by a major manufacturer, it complies with MIL spec MIL-C-62218A and Federal Specification TT-C-502B and is designed for use in the transportation industry.	Approved.
20 and 21		Numbering of sections	Please confirm that	There are no

			numbering of sections 20 and 21 is reversed	sections 20 or 21
Option A		Ad racks	Request clarification: we use a snap in convex sidewall to ceiling transition panel.	Approved. Sign height will be furnished upon award.
Option A--I believe this is supposed to be Option B	43-44	Farebox Provision	About halfway down this page it asks for a forward stanchion to be pre-wired for a farebox. This requirement is already included in the base bus at section 11.4.2. Please clarify if you want this in the base bus price, or just in the Option A price.	Strike the farebox provision from 11.4.2. It will be included in Option B.
Option B Fixed Route	43-44	Destination Signs	We believe your intent is to receive LED destination signs and not scroll type. Please delete the scroll reference.	Approved-Digital LED is required.
Option A—I believe this is supposed to be Option B	43	Sign Type	The 2nd sentence, which reads, "These signs shall be electric scroll types with a minimum of 25 positions" should be deleted since this describes a different type of sign than the digital LED signs described later.	Approved. Digital LED is required.
Option A—should be B			Please confirm the location of the farebox stanchion	At the driver's shoulder
Option B—I think you mean D		Cloth passenger Seats	Please specify the level of fabric required for this option	Level 3, please.
Option D-I think you mean G		Child Restraint Seat	Please confirm that a Child Snap Hook & Tether System is an acceptable alternative	Could not find references to auto safety application
Option R		Shoulder belts	Please accept that the	Denied. Without

			change to 3 point seats may reduce passenger capacity subject to weight analysis	supporting documentation, this point is unclear.
Option F-I think you mean Q	45	Online Inspection Services	Please clarify the intent of this option to be that the bidder provide/secure 3 rd party inspection services, and provide specific details as to the requirements of the inspection	We currently use First Transit, but this Option would only be used if our current contract would lapse. The inspectors monitor the production of the vehicles and inspect for any issues that they may find to be corrected before they leave the manufacturer
Price Page	76		Request clarification: The bid award will be determined upon total price of the sum of price for each complete vehicle as a whole and not the total for bid evaluation. The reason for clarification is that there is a line item "total for bid evaluation" which it is assumed is a sum total of all line items. We just want to ensure that the determination of the award will be based on the sum of the prices for each complete van and not the "total for bid evaluation".	The bid will be awarded for the base price of a 2 wheelchair position bus, per 8.1 of Part 1 General Conditions. The phrasing "total for bid evaluation" is not on the reissued specs.
Floorplans			Request clarification: 12 pax minimum is shown as 13 pax. Does the text take precedence over the drawing?	It is 12 passenger+ 1 w/c passenger in Part 2,section 1.2, which is what the floorplan shows

2.1 Body Structure:

The coach shall have a heavy-duty unit body-type structure. The entire body shall be full steel cage galvanized and shall be coated with a 99% pure zinc coating during the milling process of the steel construction. When the sidewalls, floor and roof are WELDED together, they shall form a continuous structure, which is extremely strong and durable. The body cage must be built as a complete assembly and shall be square, plumb and level before welding the cage on the floor structure that is mounted on the chassis with rubber isolators. All nuts, bolts, clips, washers, clamps, and like fasteners shall be zinc or cadmium plated, or phosphate coated, or stainless steel to prevent corrosion.

The body structure shall be of durable galvanized steel construction; adequately reinforced at all joints and points of stress, with sufficient strength to support the entire weight of full-loaded vehicle on its top or side, if overturned. At a minimum, the sidewalls shall be constructed of tubular 16 gauge 1-1/2" x 1-1/2" vertical studs and corner posts. Centers to be on a maximum 48" with a horizontal stringer of 1-1/2" x 2" 14 gauge tubing at the top of the wall and a 16 gauge Z-rail at the bottom of the wall. The window corners shall be reinforced with corner gussets. The roof shall be constructed of 16 gauge 1.5" x 1.5" tube steel rafters installed on maximum 48" centers. The floor frame shall consist of 11 gauge, 2 x 2.8 x 2." channel cross members, on a maximum 24" center, with an outer 14 gauge 305" x 3.19" x 2.0C-Channel. A copy of the FMVSS 220 rollover protection test results shall be submitted with the bid. FMVSS must meet 220 with the structure itself and cannot be dependent on exterior or interior panels for strength. The requirement must be submitted with this bid identifying this requirement.

The body shall be welded to the under frame structure so that the entire frame shall act as one unit without any movement in joining. Front side, and back panels shall be secured to the floor frame, members, and posts so as to result in a permanent, fully-integrated structural unit adequately reinforced with steel posts and rails at all points where stress concentration may occur. The cage shall be built as a complete assembly and shall be square, plumb and level before installing the body on the chassis. The vehicle shall adequately carry loads for which it was designed without exceeding its rated GVW.

Reinforcements shall be installed around door openings in order to transfer stress around the opening. The exterior sidewall skin and back wall shall be made of noble select composite material with a minimum thickness of 2.7mm with a tensile strength of 7,000 psi. The side skirts shall be made of same material and easily replaced. The urethane insulation, minimum 1/2" thick, shall be sprayed between the exterior skin and the interior panels including roof. Insulation shall be moisture-proof and have excellent thermal and acoustic insulating characteristics.

The sidewalls must have a gel coat finish. The roof shall be covered by piece composite material, no seams except with front and rear caps and escape hatch locations. Shall be no wood substrate to adhere any skin, roof or sidewall, if a substrate

is used it must be a composite type material. The roof skin shall continue over the sidewalls and between the windows to create a smooth transition between the roof and the sidewalls. On top of the windows shall have a drip cap extending front to back over all windows and doors.

All underbody plywood and steel, with the exception of the drive shaft, catalytic converter, engine, transmission, exhaust system, etc. shall be undercoated to protect against corrosion and provide additional sound deadening. The material shall be an abrasive-free petroleum black petroleum asphalt emulsion, formulated with corrosion inhibitors. All mechanisms (moving or stationary parts) that are affected or rendered useless by an application of sealant or insulation shall be protected, including vent canisters and drain pipes prior to undercoating. Undercoating design to pass a 5% salt spray test for a minimum 1000 hours.