# SECTION 07631 (07 62 10)

## RA GUTTERS AND DOWNSPOUTS

1. GENERAL
	1. SECTION INCLUDES
		1. Gutters, downspouts, conductor heads, scuppers, and splash blocks.
	2. REFERENCES
		1. ANSI-SPRI/ES-1.
		2. ASTM A 167-Specification for Stainless and Heat Resisting Chromium-Nickel Steel Plate, Sheet and Strip.
		3. Florida Building Code.
		4. Sheet Metal and Air-Conditioning Contractor’s National Association, Inc. (SMACNA): Architectural Sheet Metal Manual”, latest Edition. Details for fabrication of units, including flanges and installation to coordinate with type of roofing indicated.
	3. SUBMITTALS
		1. Shop Drawings: Indicate locations, configurations, jointing methods, fastening methods, locations, and installation details.
		2. Product Data: Provide data on prefabricated components.
		3. Samples: Submit 2 samples, full size, illustrating component design, finish, and configuration.
	4. QUALITY ASSURANCE
		1. SMACNA “Architectural Sheet Metal Manual”.
		2. Conform to applicable code for size and method of rain discharge.
		3. Stack preformed material to prevent twisting, bending or abrasion, and to provide ventilation. Slope to drain.
		4. Prevent contact with materials during storage, which may cause discoloration, staining or damage.
		5. Coordinate work with downspout discharge pipe inlet.
		6. Installation and design of system shall comply with the design pressures shown on the Contract Documents and the Florida Building Code.
		7. Regulatory Requirements: Ensure flashing and sheet metal complies with requirements of Florida Building Code, NRCA, SMACNA, and ANSI-SPRI/ES-1.
		8. Coordinate application of gutters and downspouts with application of roofing, protruding material, and roof accessories to provide a complete weather-tight installation under provisions of the specified warranty requirements.
		9. All work shall be performed in accordance with referenced standards.
	5. SPECIAL WARRANTIES
		1. By Membrane Producer: Provide a 20-year Special Warranty from the roof membrane producer covering correction of defects in the Gutters and Downspouts component of Roof Assembly.
		2. By Steel Roof Blocking and Roofing Sheet Metal Producer and Installer: Provide a 10 year Special Warranty in which the SRB producer/installer agrees to correct defective SRB work.
			1. See 07500 for full requirements of this Special Warranty that shall accompany the Roof Assembly Special Warranty.
			2. At time of project closeout, submit this signed Special Warranty to the roof membrane producer for transmittal to Contractor, A/E, and board.
2. PRODUCTS
	1. PRODUCTS AND MATERIALS
		1. Stainless Steel Sheet: Type 302 or 304 stainless steel, 24 gage complying with ASTM A167.
		2. Gutters: Profile as detailed on Drawings; stainless steel sheet.
		3. Conductor Head and Scuppers: Profile as detailed on Drawings; stainless steel sheet.
		4. Downspouts: Stainless Steel.
		5. Accessories: Profiled to suit headers and downspouts; stainless steel.
		6. Anchorage Devices: Type indicated on Drawings; stainless steel.
		7. Conductor Head and Downspout Supports: As indicated on Drawings; stainless steel.
		8. Fasteners: Stainless steel with soft neoprene washers.
		9. Protective Backing Paint: Zinc chromate alkyd.
	2. ACCESSORIES
		1. Splash Blocks: Approximately 2’ 0”x 1’ 6” x 1-1/2 inch thick reinforced concrete slabs with recess formed in top to deflect water away.
	3. FABRICATION
		1. Form headers and downspouts of profiles and sizes indicated on Drawings.
		2. Fabricate with required connection pieces.
		3. Form section square, true and accurate in size, and free of distortions and defects detrimental to appearance or performance. Allow for expansion at joints.
		4. Hem exposed edges of metal.
		5. Fabricate header and downspout accessories; solder stainless steel sheet metal watertight.
		6. Back paint concealed metal surfaces with protective backing paint to a minimum dry film thickness of 15 mil.
3. EXECUTION
	1. PREPARATION
		1. Verify that surfaces are ready to receive work.
	2. INSTALLATION
		1. Install headers, downspouts, and accessories.
		2. Join lengths with formed seams soldered watertight. Flash and seal headers to downspouts.
		3. Solder metal joints watertight.
		4. Connect downspouts to downspout elbows. Seal connection watertight.

END OF SECTION