



1. Screw 4" expansion center drop to fascia board where downspout will be located. An end cap may be attached to the expansion center drop (4" system only) if the downspout is located at the end of the gutter. Do not cement gutter or elbows to expansion center drop. Use temperature scale inside expansion center drop for proper placement of the gutter at the time of installation. 5" system expansion center drop requires 2 gutter brackets to be mounted for support.



2. Screw brackets into fascia board on 30" (76.9 cm) centers. Use 24" (61.5 cm) centers in areas with heavy snow loads. A chalk line may be used to assure a slight slope of 1/4" (.64 cm) per 10 ft (3 m) of gutter towards the downspout. If gutter continues around corner, make sure that the two corner brackets are at the same level and not closer than 8" (20.5 cm) to the corner.



3. To insure that gutter joints remain permanently "welded," lightly sand the surfaces to be cemented with 100 grit open coat sand paper. Make sure that the residue has been wiped off and the surfaces to receive Plastmo cement are dry. The temperature must be a minimum 32 degrees F (0 degree C). Install the fittings immediately after applying cement. The working time with the cement is just 30 seconds. Allow 2 hours drying time for proper bond. Use Plastmo cement only.



4. Sand end cap and end of gutter with sand paper. Apply cement to inside of end cap. Use plenty of cement to insure proper bond.



5. Immediately attach end cap to gutter, making sure the gutter snaps behind the inside tabs.











6. For 90 degree corners, sand surfaces to be cemented. Apply cement to inside of corner in zig zag lines keeping cement 3/4" (1.9 cm) from the edge. Immediately attach corner to gutter by hooking rear edge to gutter and press up until front rims snap together.



7. Snap gutter sections with attached corner and/or end cap into brackets. The second leg of a corner should not be cemented until the gutter section with the attached corner has been snapped into the brackets.



8. Where two gutter sections will join, sand surfaces to be cemented. Apply cement and hook joint connector to rear edge of gutter and press up until front rims snap together. Note: Use expansion joint connector if needed. See picture #10.

			
<p>9. To allow for free thermal expansion/contraction, be sure the distance between edge of cemented fittings and bracket is a minimum of 2" (5.1 cm).</p>	<p>10. Your Plastmo gutter system is designed for thermal expansion/contraction in the brackets. To take full advantage of this you must use an expansion joint connector when all of the following three conditions are present: 1. Gutter run is bound on both ends by corners. 2. Gutter run has no expansion center drop. 3. Gutter run is over 25 ft (7.6 m) long. Note: Expansion joint connector requires drainage from both sides.</p>	<p>11. Secure upper and lower pipe holder socket to wall. Use one pair of pipe holders for each section of downspout. Secure downspout to sockets using retaining band of pipe holders. For free thermal expansion/contractions, match arrow on retaining band to B-side on upper socket and A-side on lower socket. Tighten bands with bolts provided.</p>	<p>12. On successive downspouts, a 1/2" (1.3 cm) freeplay should be left in the pipe joint for free thermal expansion/contractions. Do not cement pipe joint.</p>
			
<p>13. To join elbows, slide short section of downpipe onto top elbow and into bottom elbow. Use leftover portion of downspout. Use pipe joint between expansion center drop and downspout, if elbows are not needed. Do not cement.</p>	<p>14. A well outlet with well cap for underground drainage is used to complete downspout.</p>	<p>15. An elbow with an extra piece of downspout may be used to direct the water in any direction desired.</p>	<p>16. Your Plastmo gutter system is complete. The downspout is designed for easy dismantling. Check and remove any debris from elbows before winter.</p>
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