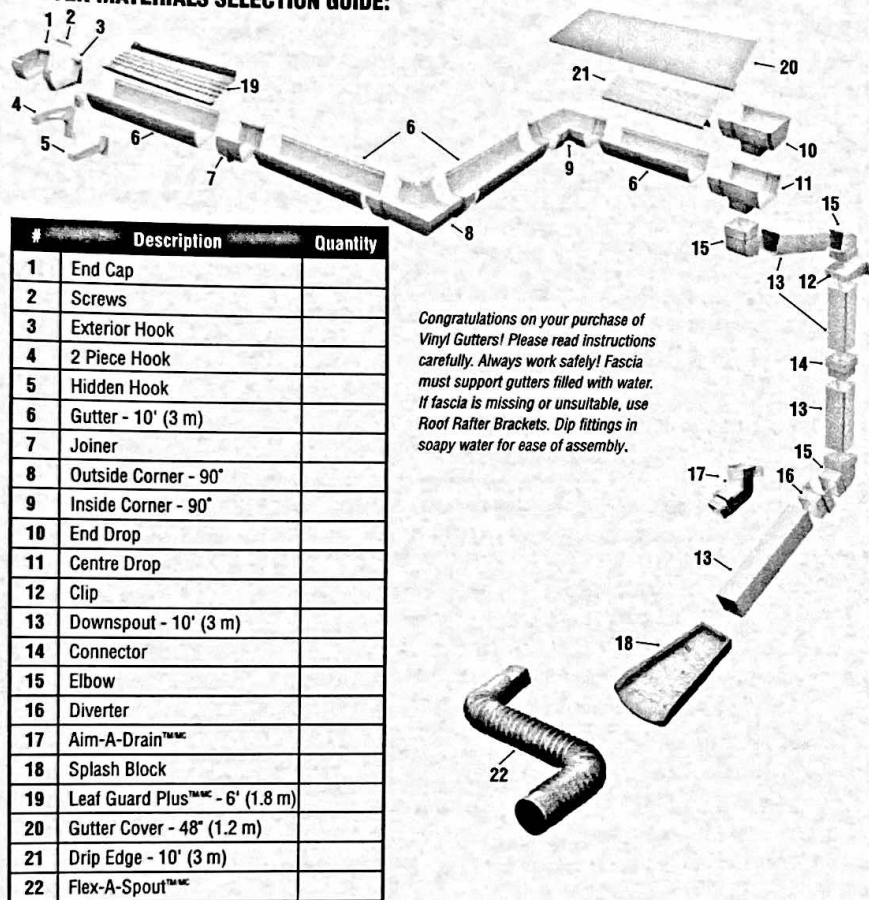


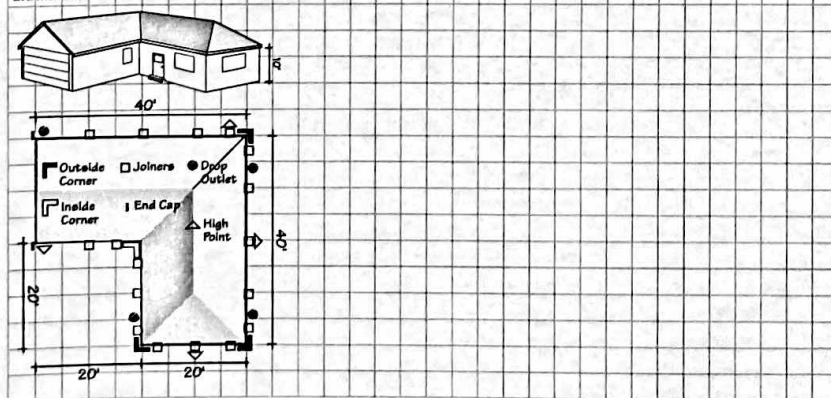
## GUTTER MATERIALS SELECTION GUIDE:



## PLANNING - Measure Roof Line and Locate Downspouts

Measure roofline requiring gutters. Divide roofline by 10' (3m) for number of gutter sections. Multiply sections by 5 for number of hooks. Plan high points and locate downspouts to ensure rainwater flows away from foundation without obstructing exits. Minimum 1 downspout per 40' (12m) of gutter.

### EXAMPLE:



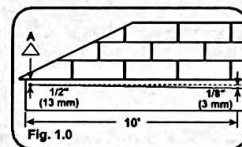
## TOOLS REQUIRED:

Eye protection, pencil, tape measure, string, level, hack saw, drill & screw driver.



## 1 MEASURE:

Snap level chalk line 1/2" (13 mm) from top of fascia. Starting at high point (A), snap chalk guide line, sloping down 1/8" (3 mm) for every 10' (3 m) linear to downspout. (Fig. 1.0)

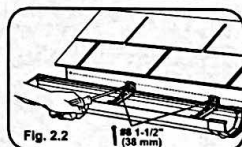
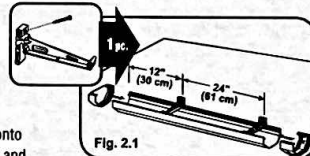


## 2 INSTALLING HOOKS:

**HOOKS:** Three options - 1 Piece, 2 Piece or Exterior, all styles are not available everywhere.

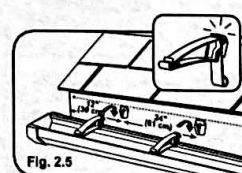
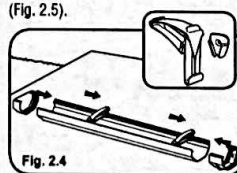
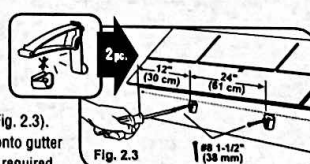
### OPTION 1 - 1 Piece Hook:

On the ground, slide hooks onto gutter, 12" (30 cm) from end and 18"-24" (45-60 cm) apart (Fig. 2.1). Install End Cap (Fig. 2.1) as required. Using #8 x 1-1/2" (38 mm) screws, fasten hooks to fascia on guide line. Top of hook should line up along chalk guide line. (Fig. 2.2)



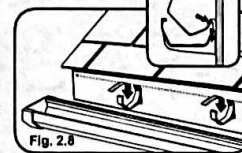
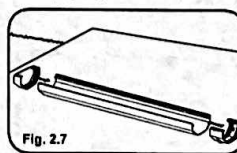
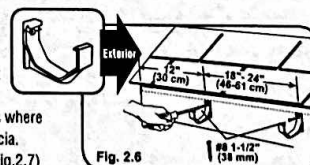
### OPTION 2 - 2 Piece Hook:

Detach dovetails and trim excess. Fasten dovetails to fascia on guide line using #8 x 1-1/2" (38 mm) screws 12" (30 cm) from end and 18" - 24" (45-60 cm) apart (Fig. 2.3). On the ground, slide hooks onto gutter (Fig. 2.4). Install End Cap as required. Align and snap hooks into dovetails (Fig. 2.5).



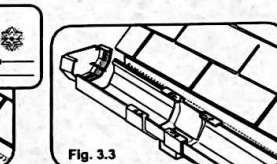
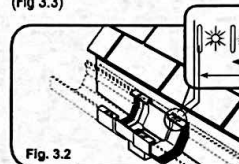
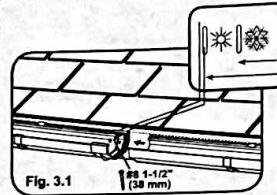
### OPTION 3 - Exterior Hook:

Fasten Exterior hooks to fascia 12" (30 cm) from end and 18"-24" (45-61 cm) apart using #8 x 1-1/2" (38 mm) screws. (Fig. 2.6) Leave gaps where joiners mount directly to fascia. Assemble gutter sections. (Fig. 2.7) Lift and snap each gutter section into hooks. (Fig. 2.8)



## 3 INSTALL JOINERS & DROP OUTLETS:

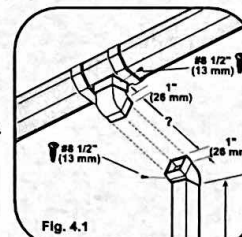
Position the gutter 1/4" (7 mm) past the seals. If temperature at time of installation is 80°F/28°C or more, position gutter against the center tabs. Fasten joiners directly to fascia using #8 x 1-1/2" (38 mm) screws. (Fig. 3.1) Position Drop Outlet in desired location and cut gutter to length using temperature marks as guides. (Fig. 3.2) Attach Drop Outlet to gutter. Finish with an End Cap on the last piece of gutter. (Fig. 3.3)



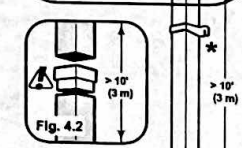
## 4 INSTALLING DOWNSPOUTS:

**MEASURE:** Attach an Elbow to the Drop Outlet using a #8 x 1/2" (13 mm) self-tapping rust-resistant screw. Position an Elbow 1" (26 mm) from wall, measure the distance between and cut a Downspout length to connect Elbows (Fig. 4.1).

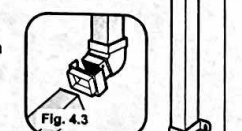
**IMPORTANT:** All fittings must have small end facing the direction of water flow.



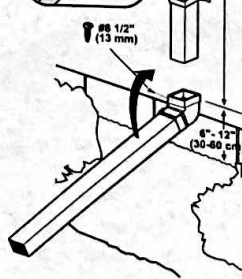
**FASTEN DOWNSPOUT CLIPS:** Line up Downspout assembly with wall to determine location of Downspout Clips. Hold the Downspout into position and fasten Clips to wall using appropriate fastener. \*When clip is installed correctly, Downspout sits 1" (26 mm) from wall.



**INSTALL DIVERTER:** Attach Diverter to bottom Elbow. Secure Downspout section to Diverter using a #8 x 1/2" (13 mm) self-tapping, rust-resistant screw. (Fig. 4.3)



**ASSEMBLE DOWNSPOUTS:** Determine total length of Downspout by measuring from the wall Elbow to approximately 6"-12" (30-60 cm) above ground. If total length is over 10' (3 m), use a Connector to join Downspouts (Fig. 4.2). Secure Elbow to bottom of Downspout using a #8 x 1/2" (13 mm) self-tapping, rust-resistant screw.



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