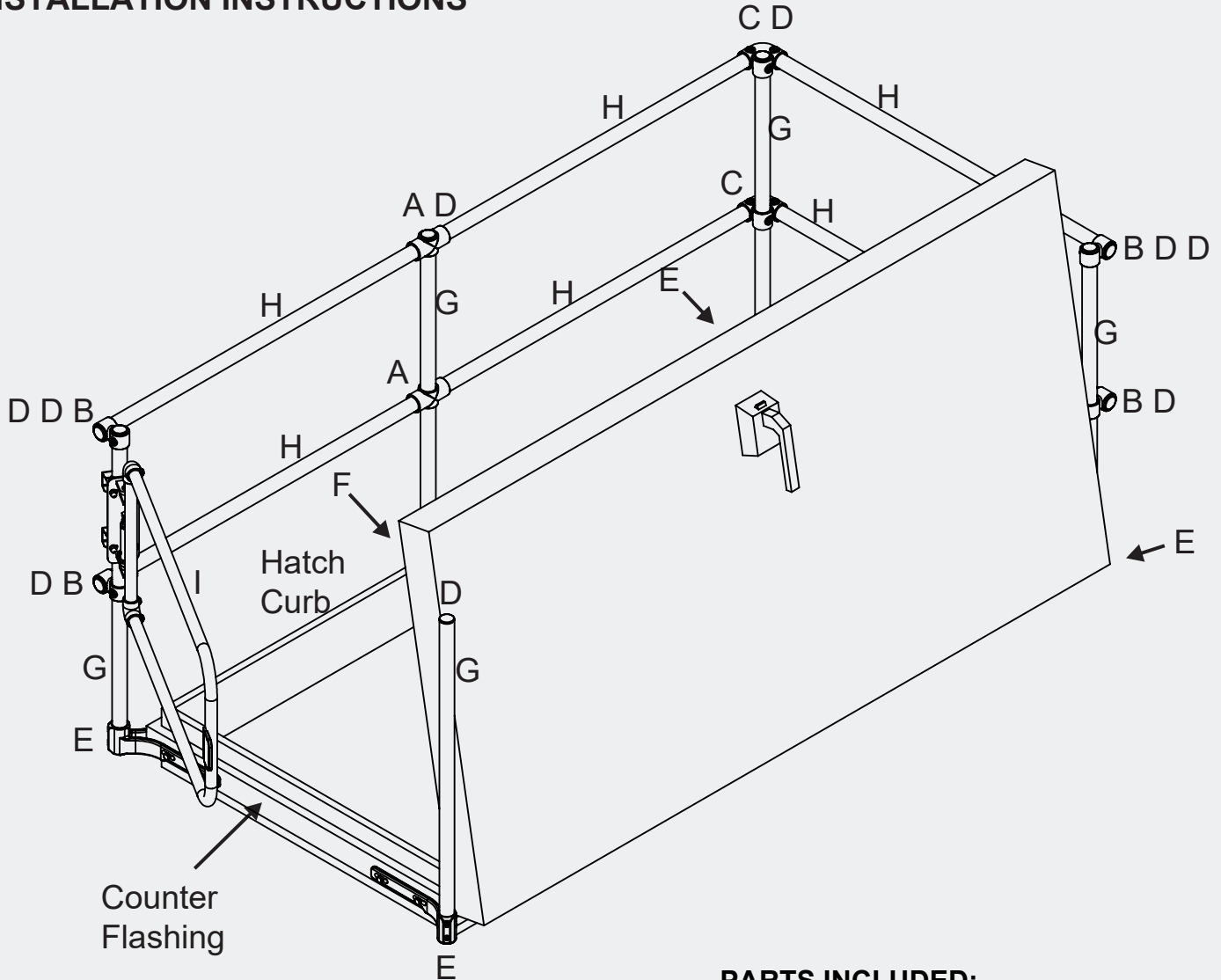




# KEE HATCH® RAILING MODEL KH-FB-3096

## INSTALLATION INSTRUCTIONS



### PARTS INCLUDED:

Hardware Included:	
#Q	Description
18	3/8" x 2 1/2" Hex Head Bolt
18	3/8" x 1 1/4" Hex Head Bolt
18	3/8" Nut
18	3/8" Flat Washer
18	3/8" Lock Washer
18	3/8" Fender Washer
1	Hex Key Set

#Q	Item	Description
A	2 26-7	Two Scocket Cross
B	4 45-7	Crossover
C	2 121-7	Corner Crossover
D	9 133C	Plastic Plug
E	4 161-7	Corner Bracket
F	1 162-7	Side Bracket
G	5 42 3/4"	Pipe
H	6 66"	Pipe
I	1	Self Closing Gate



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## INSTALLATION INSTRUCTIONS

There are two methods of installing our Kee Hatch Railing System:

1. Mounting on the counter flashing.
2. Mounting on the hatch curb.

Note: We strongly recommend mounting on the counter flashing to avoid roof penetrations in the hatch curb.

<b>1. Mounting on the Roof Hatch Counter Flashing (please refer to drawing on page 1)</b>	
STEP 1	Hold Corner Bracket (E) tight to corner of counter flashing.
STEP 2	Mark one hole closest to corner, remove bracket and drill a 7/16" hole (titanium bits work best).
STEP 3	Bolt bracket to counter flashing using 1¼ bolt, washer and lock washer, snugly tighten.
STEP 4	Insert post (G) into bracket, plumb side to side, drill outside hole, insert 1¼" bolt, washer and lock washer, tighten both bolts.
STEP 5	Plumb post in opposite direction, drill outside hole, insert 1¼" bolt, tighten, drill inside hole, insert 1¼" bolt, tighten both bolts.
STEP 6	Hold Side Bracket (F) to the edge of the counter flashing at the center of the long side of the hatch.
STEP 7	Mark one hole, remove bracket and drill a 7/16 <sup>th</sup> hole, bolt bracket using 1¼" bolt, washer and lock washer, snugly tighten.
STEP 8	Insert post (G) into bracket, plumb side to side, drill second hole, insert 1¼" bolt, washer and lock washer, tighten both bolts.
STEP 9	Repeat for all Corner and Side Brackets.
STEP 10	Install top & mid railings (H) as shown in diagram keeping top Railing at least 42" above roof surface and positioning mid railing halfway between the top rail and the top of the hatch curb, level rails, cut off excess top and mid Railing close to fittings. Top and mid rails may need to be field cut to exact fit.
STEP 11	Torque all fitting set screws to 29-foot pounds.
STEP 12	Install Self Closing gate per instructions in gate box, adjust gate tension.
STEP 13	Check roof hatch for proper unobstructed closing.



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### 2. Mounting on Roof Hatch Curb (please refer to drawing on page 1)

Abide by industry standards for mounting, fastening and sealing Corner and Side Brackets.

STEP 1	Hold Corner Bracket (E) tight to corner of hatch curb.
STEP 2	Mark one hole closest to corner, remove bracket and drill a 7/16" hole (titanium bits work best).
STEP 3	Place roof sealant on inside of bracket, run bolt with fender and lock washer thru inside of curb, snugly bolt bracket to curb.
STEP 4	Insert post (G) into bracket, plumb side to side, drill outside hole, run bolt thru inside of curb with fender washer and lock washer, tighten both bolts.
STEP 5	Plumb post in opposite direction, drill outside hole, insert bolt, fender washer and lock washer, tighten, drill inside hole, insert bolt, fender washer and lock washer, tighten both bolts
STEP 6	Hold Side Bracket (F) at the center of the long side of the hatch.
STEP 7	Mark one hole, remove bracket and drill a 7/16 <sup>th</sup> hole.
STEP 8	Place roof sealant on inside of bracket, run bolt with fender and lock washer thru inside of curb, snugly bolt bracket to curb.
STEP 9	Insert post (G) into bracket, plumb side to side, drill second hole, run bolt thru inside of curb with fender washer and lock washer, tighten both bolts.
STEP 10	Repeat for all Corner and Side Brackets.
STEP 11	Install top & mid rails (H) as shown in diagram keeping top rail at least 42" above roof surface and positioning mid rail halfway between the top rail and the top of the hatch curb. Level rails, cut off excess top and mid Rails close to fittings. Top and mid rails may need to be field cut to exact fit.
STEP 12	Torque all fitting set screws to 29-foot pounds.
STEP 13	Install Self Closing gate per instructions in gate box, adjust gate tension.
STEP 14	Cut off all bolt ends to the nuts. File or grind burrs on bolt ends. Caulk over nuts.
STEP 15	Check roof hatch for proper unobstructed closing.