

BACKFLOW PREVENTION ASSEMBLY PERMIT CHECKLIST

This checklist identifies major review items verified by the Department of Licenses and Inspections during the permit application review of fire and domestic water service. Conformance to this checklist does not relieve permit holder of obligation to comply with PWD regulations for new installation or continued maintenance.

I. L&I Fire Suppression	YES	NO	N/A
a. Backflow prevention assembly is installed on the dedicated fire service of systems designed under NFPA 13 or NFPA 13R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Backflow prevention assembly is installed on the water service of an NFPA 13D system where a listed anti-freeze solution is present.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. The type of assembly (<i>DCV or RP</i>) identified on the plan and PWD CP 100 form conforms to Section 4.4 of the PWD Cross Connection Control Manual and NFPA design standard.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. The assembly listed on the PWD CP 100 form and plan is on the PWD approved list, https://fccchr.usc.edu/list.html . The following information must be verified:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ii. Size	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iii. Manufacturer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iv. Model	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
v. Lead -free status (contains levels less than or equal to 0.25 pb)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
vi. Orientation (as reflected on plan)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
vii. Appropriate use for new installation or replacement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. The installer listed on the PWD CP 100 form is on the PWD approved list for fire sprinkler system technicians, https://water.phila.gov/pool/files/cccp-fss-techlist.pdf .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. The assembly type, size and location listed on the plans, calculations, and CP100 form are in agreement.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. The plan reflects location conforming to Section 7 and Appendix A.1 of the PWD Cross Connection Control Manual , including:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Must be located within 100' of the water main.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ii. If installed outdoors, any RP assembly must be located inside a heated enclosure protected from flooding and vandalism. A DCV may be installed within a meter pit if indicated on the PWD approved utility plan.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. The calculations reflect the correct pressure loss for the assembly based on manufacturer's specifications and incorporate any change in diameter between backflow and service or sprinkler piping.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Plan or manufacturer's specifications reference slow-closing shut-off valve.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

II. L&I Plumbing			
a. Backflow prevention assembly is installed for all commercial/industrial buildings and residential buildings containing more than 4 dwelling units as per Section 4-P-608.1.1 of the Philadelphia Code.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. The type of assembly identified on the plan and PWD CP 100 form conforms to Section 4.3 of the PWD Cross Connection Control Manual . An RP assembly must be utilized unless the applicant demonstrates that the facility is classified as low hazard in accordance with Section 4.3 of the Cross Connection Control Manual.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. The assembly is on the PWD approved list, https://fccchr.usc.edu/list.html . The following information must be verified: <ul style="list-style-type: none"> i. Type ii. Size iii. Manufacturer iv. Model v. Lead -free status (contains levels less than or equal to 0.25 pb) vi. Orientation (as reflected on the plan) vii. Appropriate use for new installation or replacement 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. The installer listed on the CP100 is on the PWD approved list for domestic water system technicians, https://water.phila.gov/pool/files/cccp-dws-techlist.pdf .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. The assembly type, size and location listed on the plans and CP100 form are in agreement.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. The plan reflects location conforming to Section 7 and Appendix A.1 of the PWD Cross Connection Control Manual , including: <ul style="list-style-type: none"> i. Must be located within 100' of the water main. ii. If installed outdoors, any RP assembly must be located inside a heated enclosure protected from flooding and vandalism and compliant with ASSE 1060. A DCV may be installed within a meter pit, if identified on an approved utility plan. 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. If an RP assembly is used, the point of disposal of the relief valve (<i>i.e.</i> , floor drain, indirect waste, exterior of building) is annotated where an RP assembly is used in accordance with Section 4-P-608.15.2.1 and drain is sized in accordance manufacturer's specifications.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
III. L&I Plumbing EZ-Permit			
a. Verify type is RP. Applications that include a DCV require documentation demonstrating that facility meets criteria for a low hazard occupancy, as defined in the PWD Cross Connection Control Manual and shall be subject to standard review.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. The assembly is on the PWD approved list, https://fccchr.usc.edu/list.html . The following information must be verified: <ul style="list-style-type: none"> i. Type ii. Size iii. Manufacturer iv. Model v. Lead -free status (contains levels less than or equal to 0.25 pb) vi. Orientation (as reflected on the plan) vii. Appropriate use for new installation or replacement 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. The installer listed on the PWD CP100 is on the PWD approved list for domestic water system technicians, https://water.phila.gov/pool/files/cccp-dws-techlist.pdf .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>