



水務署
Water Supplies Department

總部 Headquarters

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本署檔號 : (4) in WSD 3321/2021 T/J(317/2021)
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29 March 2021

**Approval of “OPAL” Copper Fittings
(General Acceptance No. C20210328)**

Your letters ref. BK2021-VM-1077 and BK2021-VM-1077(R1) dated 5 February 2021 and 5 March 2021 respectively refer.

Having considered the test report ref. BC-SUMMARY-2021-001 issued on 5 January 2021 by Castco Testing Centre Limited, this Authority accepts that the fittings described below comply with, and their use when correctly installed does not contravene, the Waterworks Ordinance and Regulations.

Name of Manufacturer: Zhejiang Hailiang Co Ltd

Country of Origin: the Mainland of China

Brand: OPAL

Details of Fittings: Copper alloy fittings with compression connection ends

Description	Model	Size
90° Elbow (CxC)	OL139	15, 22, 28, 35, 42, 54 (mm)
Reducing 90° Elbow (CxC)	OL139	22x15, 28x15, 28x22 (mm)
45° Elbow (CxC)	OL141	22, 28, 35, 42, 54 (mm)

Description	Model	Size
Male 90° Elbow (CxMI)	OL145T	15x½", 15x¾", 22x¾", 28x1", 35x1¼", 42x1½", 54x2" (mm x inch)
Female 90° Elbow (CxFI)	OL147	15x½", 15x¾", 22x½", 22x¾", 28x1", 35x1¼", 42x1½", 54x2" (mm x inch)
Female 90° Elbow Wall Plate Elbow (CxFI)	OL149	15x½" (mm x inch)
Equal Tee (CxCxC)	OL150	15, 22, 28, 35, 42, 54 (mm)
Reducing Tee (CxCxC)	OL150	22x22x15, 28x28x15, 28x28x22, 54x54x22 (mm)
P2-Tee (CxCxC)	OL152	22x15x22, 28x22x28 (mm)
P1-Tee (CxCxC)	OL153	22x15x15, 28x22x22 (mm)
B-Tee (CxCxC)	OL154	15x15x22 (mm)
Female Tee (CxFIxC)	OL166	15x½"x15 (mm x inch x mm)
Female Tee (CxCxFI)	OL167	15x15x½", 22x22x½", 22x22x¾", 28x28x½", 35x35x¾", 42x42x¾" (mm x mm x inch)
Coupler (CxC)	OL130	15, 22, 28, 35, 42, 54 (mm)
Male Coupler (CxMI)	OL134T	15x½", 22x¾", 28x1", 35x1¼", 42x1½", 54x2" (mm x inch)
Female Coupler (CxFI)	OL138	15x½", 22x¾", 28x1", 35x1¼", 42x1½", 54x2" (mm x inch)
Reducer (CxC)	OL130	22x15, 28x15, 28x22, 35x28 (mm)
Male Reducer (CxMI)	OL134T	15x¾", 22x½", 22x1" (mm x inch)
Female Reducer (CxFI)	OL138	15x¾", 22x½", 22x1" (mm x inch)

Body Markings: OPAL EN1254-2 (Size)

Expiry Date: 8 December 2025

This Authority hereby permits the use of the above fittings in fresh water plumbing systems subject to full adherence to Waterworks installation requirements.

A condition of this acceptance is that the fittings to be installed should be replicas of the samples as certified by the testing agent mentioned above and without modifications. This acceptance may be withdrawn at any time if the standard of the fittings installed fails to meet that of the approved samples or if the fittings are found to be unsuitable for use in fresh water plumbing systems.

For the use of the fittings in any project, the General Acceptance Number of this letter must be quoted as a means of identification of acceptance of the fittings by this Authority.

Should you have any enquiries, please contact our Engineer Mr. Terry KUNG at tel. no. 3583 4086.

Yours faithfully,



(Roger WONG)

for Director of Water Supplies

Encl.

c.c. WSD 3321/1/82] - without catalogue
 ME/MC] - with soft copy only



90° Elbow (CxC)



Reducing 90° Elbow (CxC)



4 5° Elbow (CxC)



Male 90° Elbow (CxMI)



Female 90° Elbow (CxFI)



Female 90° Wall Plate Elbow (CxFI)



Equal Tee (CxCxC)



Reducing Tee (CxCxC)



P2-Tee (CxCxC)



P1-Tee (CxCxC)



B-Tee (CxCxC)



Female Tee (CxFIxC)



Female Tee (CxCxFI)



Coupler (CxC)



Male Coupler (CxMI)



Female Coupler (CxFI)



Reducer (CxC)



Male Reducer (CxMI)



Female Reducer (CxFI)