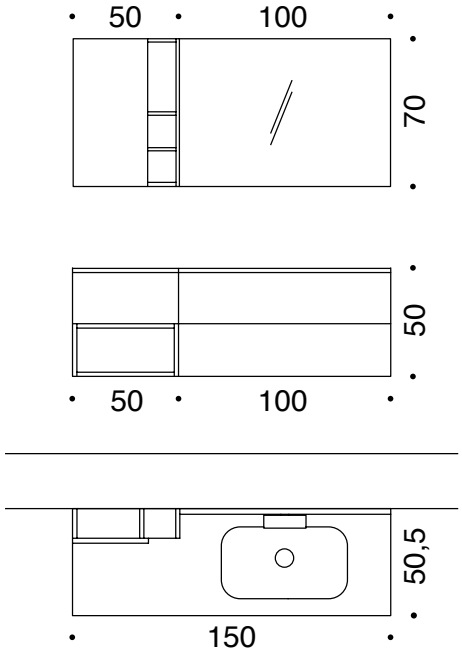OPEN - COMP. 224