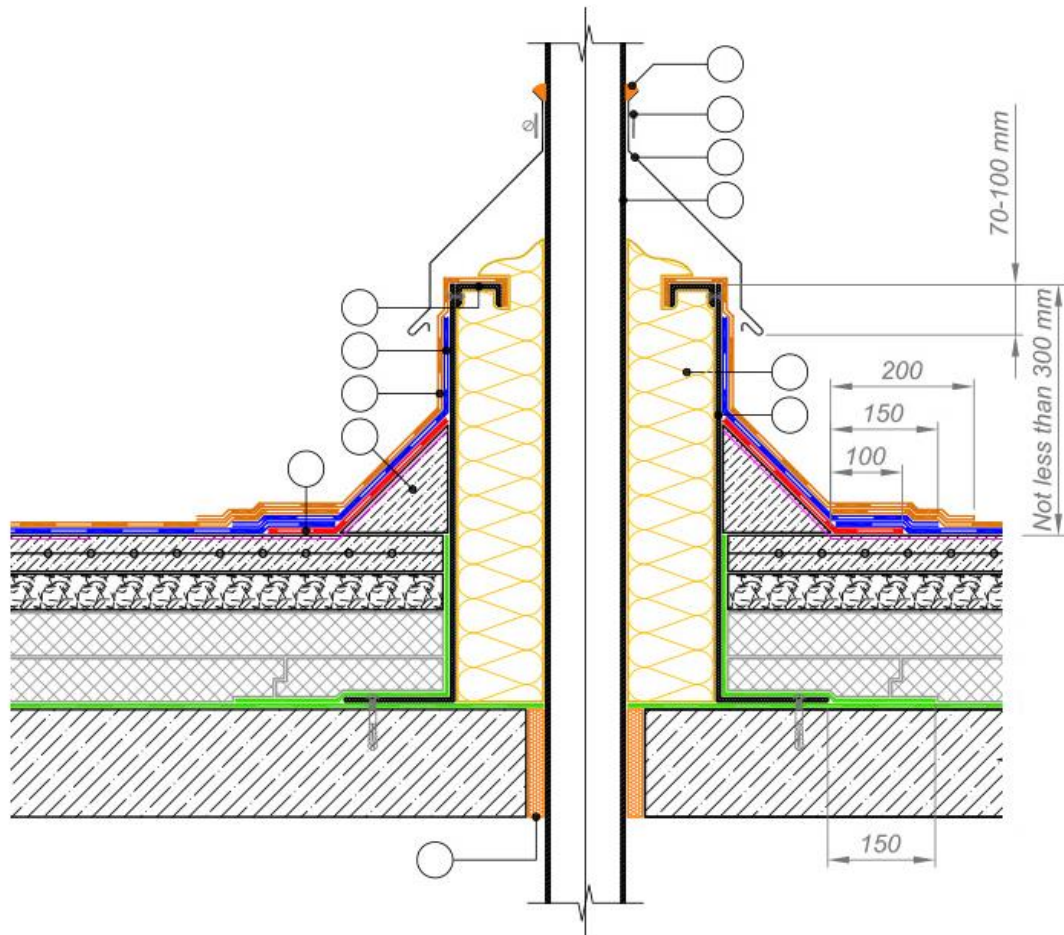


## Topic 11 INSULATION OF PIPES

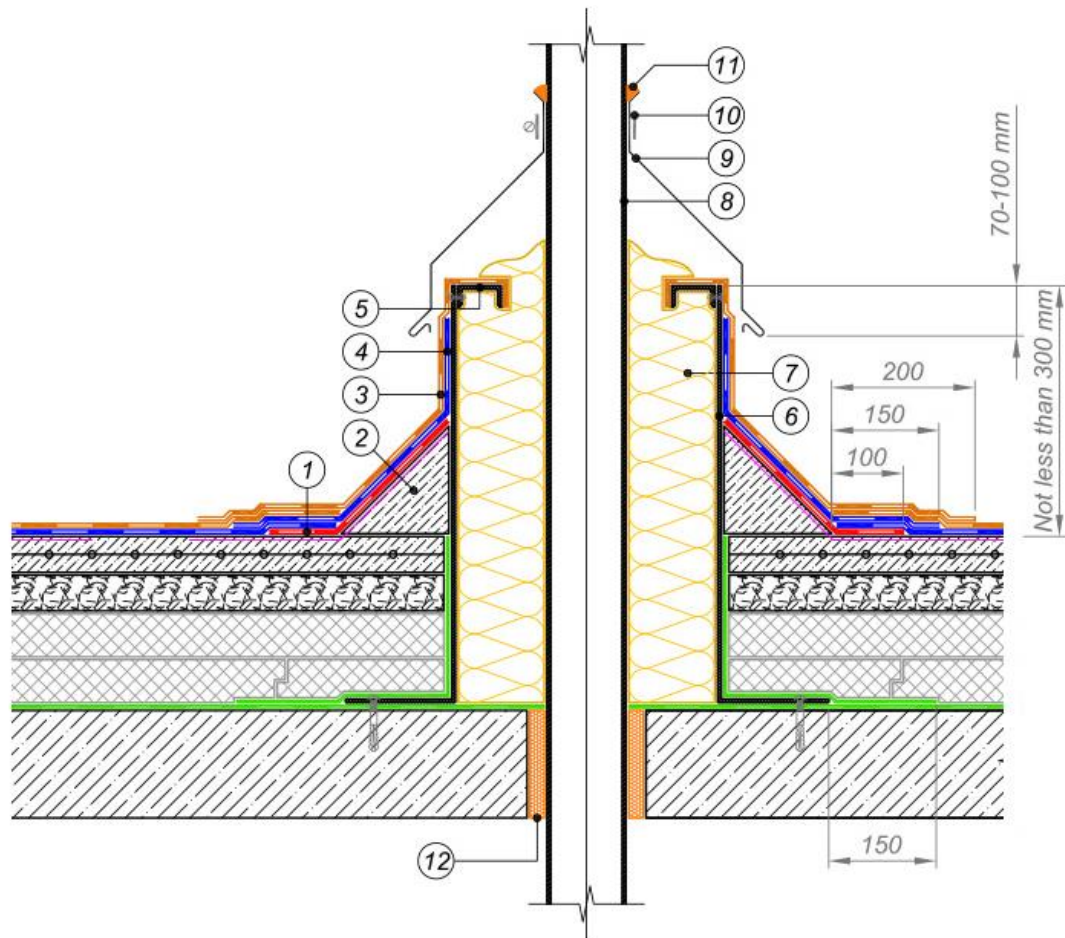
Practical Exercise -3:

*Working with a sample image*

Hot pipe connection detail is seen in the picture. Parts of the detail are left blank with balloons. Number the balloons in the picture by examining the names and numbers of the annotations below.



- |  |  |
|--|--|
| <p>① Additional layer of waterproofing membrane - Underlay bitumen membrane</p> <p>② Transitional upstand of lightweight concrete</p> <p>③ Top layer of waterproofing system on vertical surface - Cap sheet bitumen membrane</p> <p>④ Bottom layer of waterproofing system on vertical surface - Underlay bitumen membrane</p> <p>⑤ Galvanized steel profile to be fastened by rivets</p> | <p>⑥ Galvanized steel duct not less than 3 mm in thickness</p> <p>⑦ Stone wool thermal insulation not less than 120 mm in thickness</p> <p>⑧ Pipe</p> <p>⑨ Galvanized steel flashing</p> <p>⑩ Compression metal clamp</p> <p>⑪ Sealant *</p> <p>⑫ Sealing foam</p> |
|--|--|



- |   |  |
|---|--|
| ① Additional layer of waterproofing membrane -<br>Underlay bitumen membrane               | ⑥ Galvanized steel duct<br>not less than 3 mm in thickness           |
| ② Transitional upstand of lightweight concrete  | ⑦ Stone wool thermal insulation<br>not less than 120 mm in thickness |
| ③ Top layer of waterproofing system<br>on vertical surface - Cap sheet bitumen membrane   | ⑧ Pipe   |
| ④ Bottom layer of waterproofing system<br>on vertical surface - Underlay bitumen membrane | ⑨ Galvanized steel flashing  |
| ⑤ Galvanized steel profile to be<br>fastened by rivets                                    | ⑩ Compression metal clamp  |
|   | ⑪ Sealant *  |
|   | ⑫ Sealing foam   |