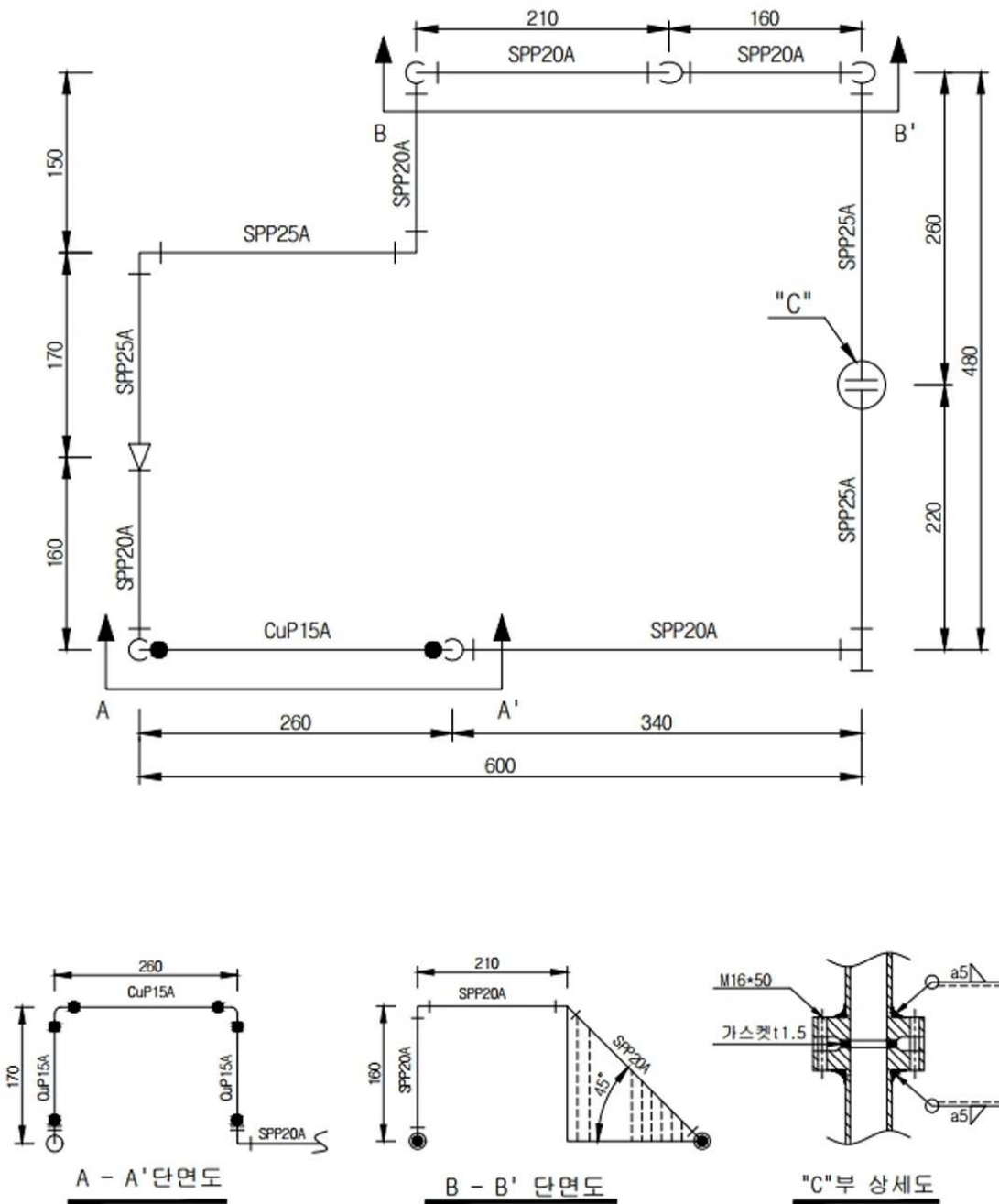


3. 도면



자격종목	에너지관리산업기사	과제명	강관 및 동관 조립	척도	N.S
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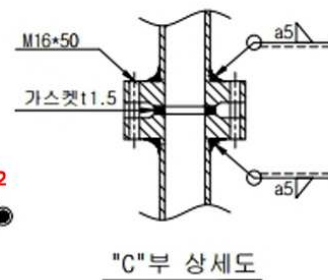
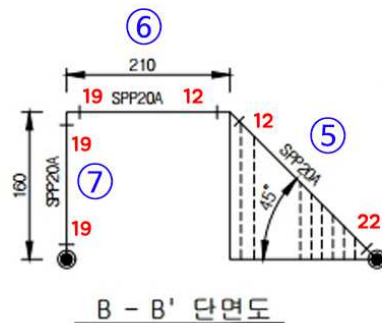
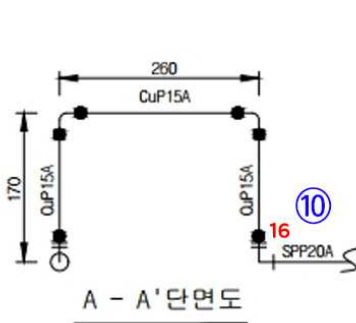
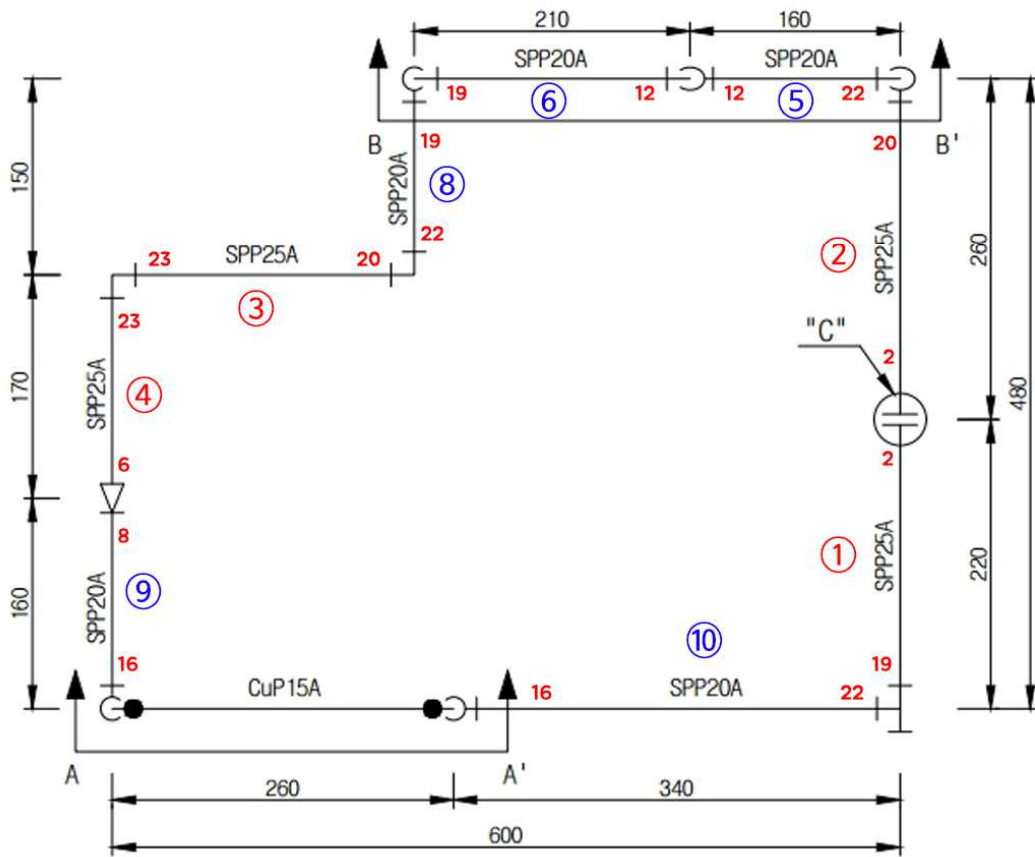


백길이 계산란

3. 도면



자격종목	에너지관리산업기사	과제명	강관 및 동관 조립	척도	N.S
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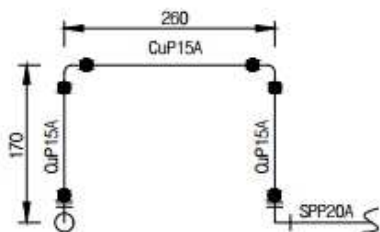
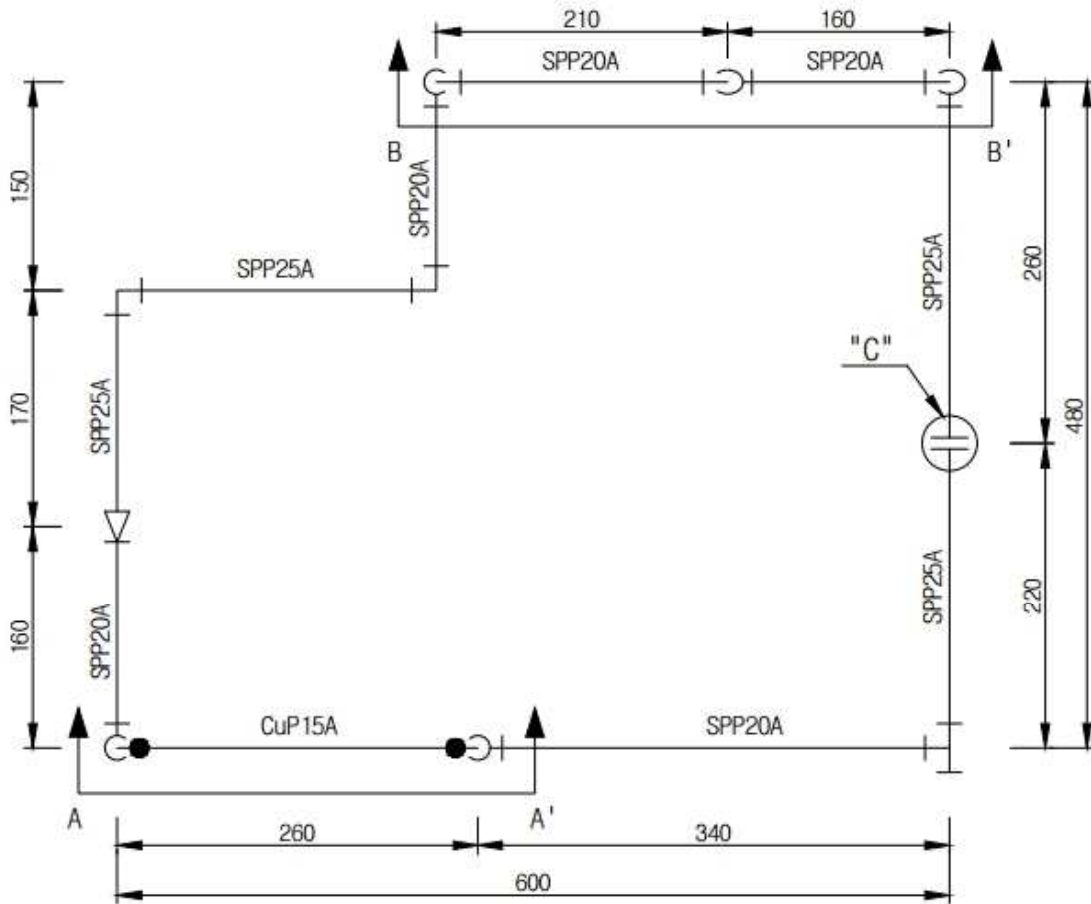


백길이 계산란

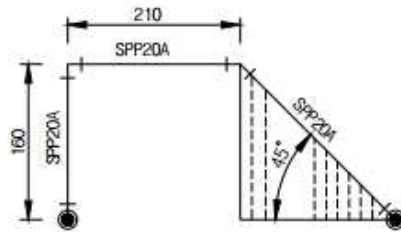
- ① $220 - (19 + 2) = 199$
- ② $260 - (2 + 20) = 238$
- ③ $230 - (20 + 23) = 187$
- ④ $170 - (23 + 6) = 141$
- ⑤ $226 - (22 + 12) = 192$
- ⑥ $210 - (12 + 19) = 179$
- ⑦ $160 - (19 + 19) = 122$
- ⑧ $150 - (19 + 22) = 109$
- ⑨ $160 - (8 + 16) = 136$
- ⑩ $340 - (16 + 22) = 302$

3. 도면

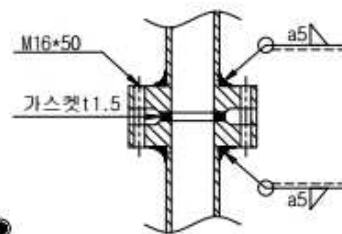
자 격 종 류	에 너 지 관 리 산 업 기 사	과 제 명	강관 및 동관 조립	척도	N.S
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A - A' 단면도



B - B' 단면도



"C"부 상세도