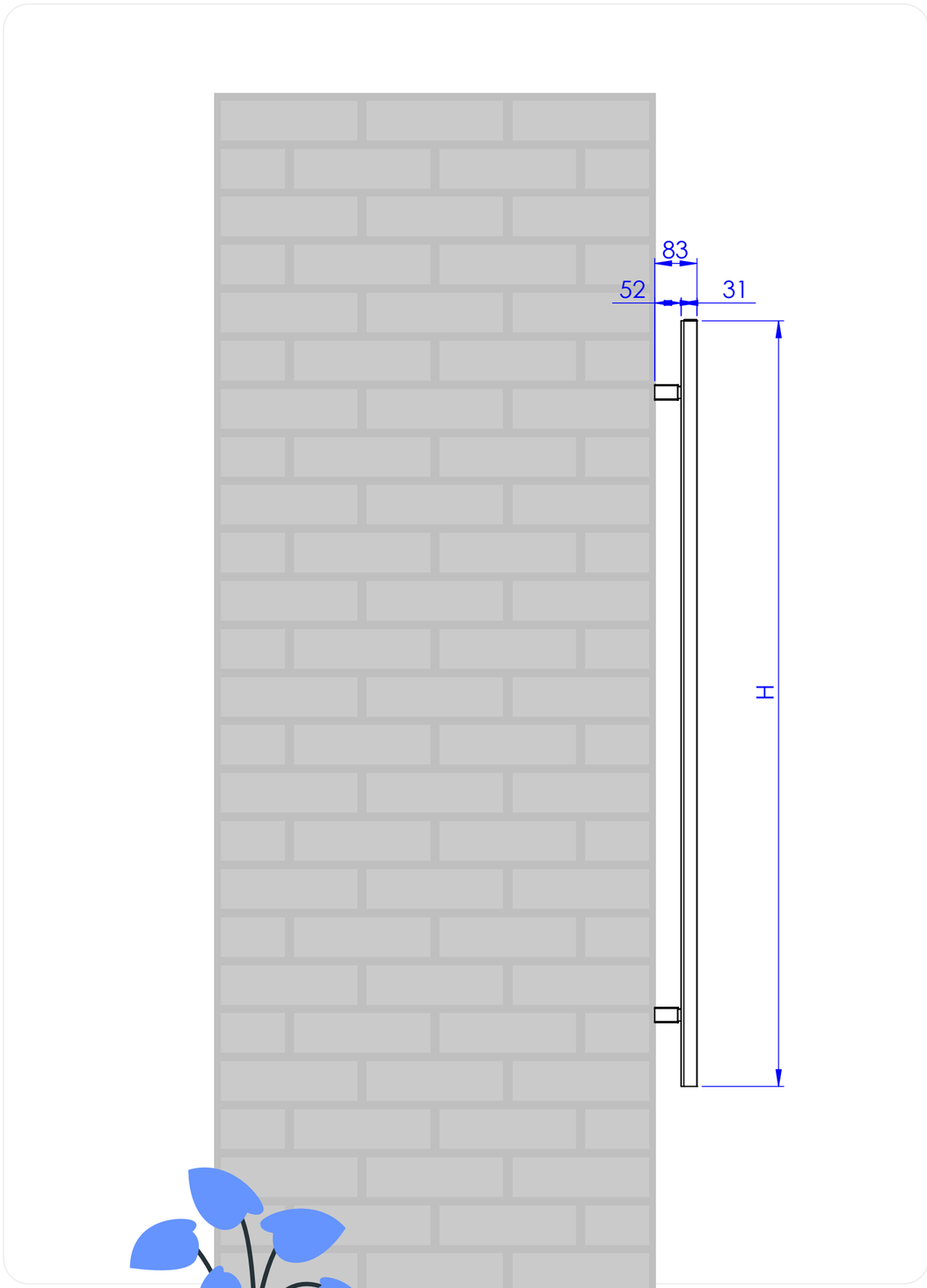QA-SP-ASM