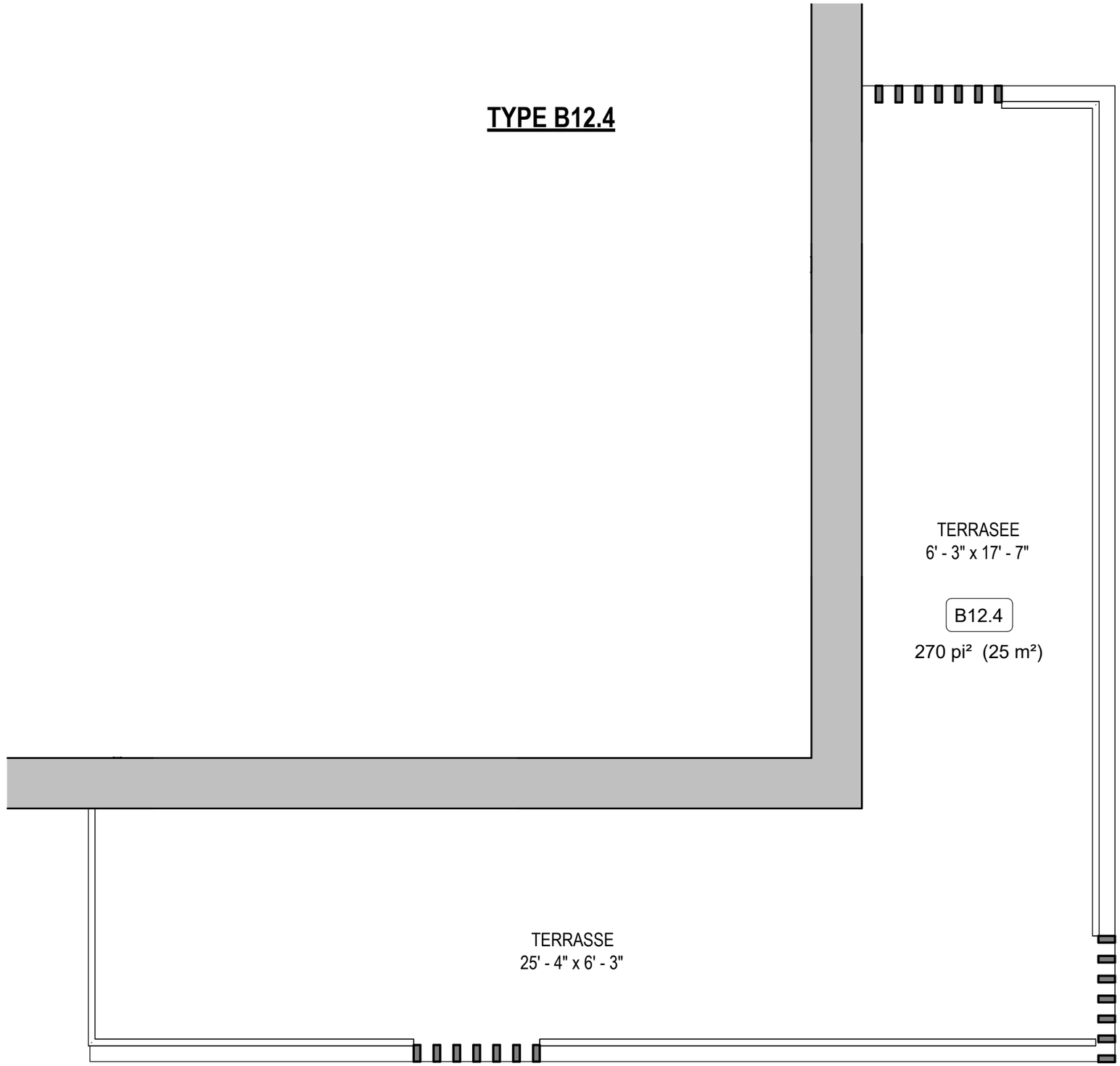TYPE B12.4