In recent years residential buildings have been increasingly equipped by technological devices and service supplies to gain an appropriate standard of comfort. Despite these service installations and associated penetrations the fire resistance of fire separating elements must not be negatively influenced. There are currently no approved systems or recommendations for fire safe penetration sealing products in separating timber elements available. However new measures and recommendations for fire safe service installations in timber structures can be derived from numerical simulations and fire tests conducted in a European research project and further work of the authors.

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- Penetration sealing,
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