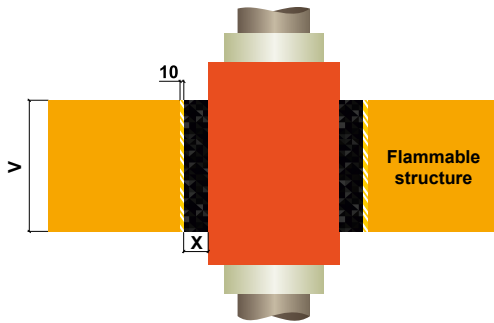


INSTRUCTIONS FOR INSTALLATION OF HELUZ KLASIK AND HELUZ IZOSTAT MASONRY CHIMNEY SYSTEMS IN THE CONSTRUCTION

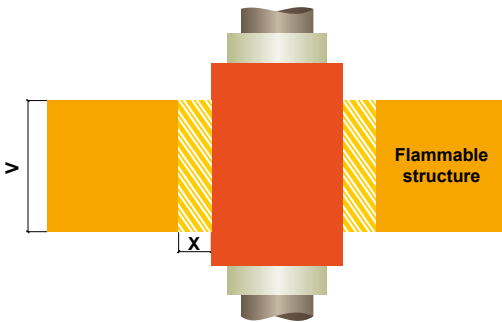
WITH RESPECT TO THE SAFE DISTANCE FROM FLAMMABLE STRUCTURES FROM THE HELUZ CHIMNEY SHELL

PENETRATION THROUGH THE CEILING



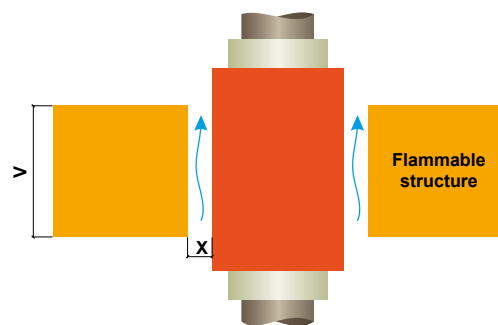
1. APPLICATION OF THE HELUZ STOPPER PENETRATION

V Ceiling structure height	X Safe distance Temperature class T400	Description
1-500 mm	min. 30 mm GPH (thickness 50 mm)	HELUZ penetration + expansion joint separating the solid parts of the structure (the joint is filled with a flexible thermal insulation material)
501-700 mm	50 mm GPH (thickness 50 mm)	HELUZ penetration + expansion joint separating the solid parts of the structure (the joint is filled with a flexible thermal insulation material)



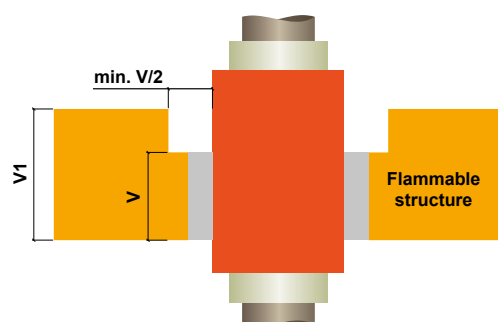
2. APPLICATION OF MINERAL INSULATION

V Ceiling structure height	X Safe distance Temperature class T400	Description
1-500 mm	30 mm	The space between the chimney and a flammable structure is completely filled with mineral insulation. It is necessary to use solid board material within the complete height of the building. Laminated material should not be used (mineral insulation parameters: Lambda $\lambda \leq 0.04$ W/mK)
501-700 mm	50 mm	



3. VENTILATION GAP

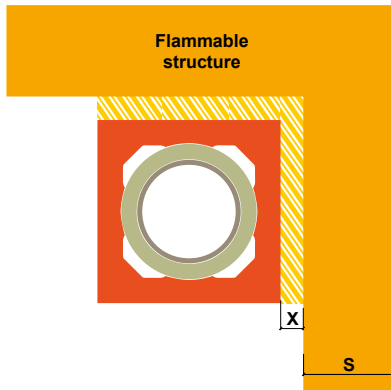
V Ceiling structure height	X Safe distance Temperature class T400, T600	Description
1-700 mm	30 mm	No more than 50 % of the 30 mm air gap along the perimeter of the chimney may be covered, uniformly along the chimney perimeter



4. APPLICATION OF MINERAL INSULATION

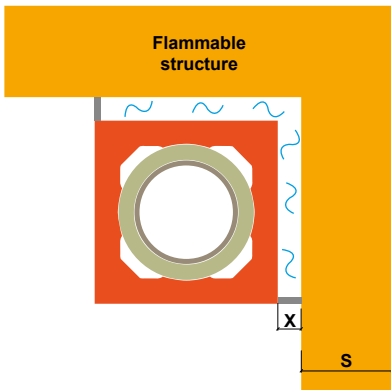
- If there is a reduced height "V" around the chimney. This height reduction must be at least within a distance of 1/2 of the reduced height "V" from the chimney shell. When the "V/2" distance cannot be observed, it is necessary to consider the ceiling structure height "V1".
- If the ceiling structure is inclined, the perpendicular distance with respect to the roof plane should be considered.

CONTACT WITH THE WALL



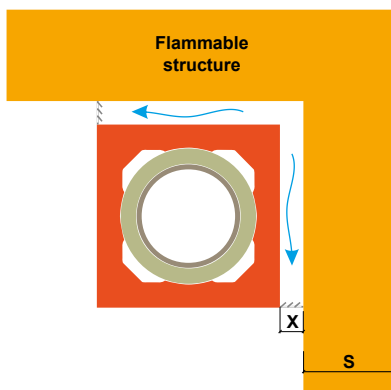
1. APPLICATION OF MINERAL INSULATION

X safe distance of flammable structures from the chimney shell Temperature class T400	Description
30 mm	The space between the chimney and a flammable structure is filled in completely with mineral insulation. If the chimney is lined with plasterboard, it is necessary to use fireproof plasterboard (mineral insulation parameters: $\lambda \leq 0.04 \text{ W/mK}$)



2. ENCLOSED AIR GAP

X safe distance of flammable structures from the chimney shell Temperature class T400	Description
50 mm	Air gap enclosed with impermeable material (such as lining, strips, plaster, etc.) Air behind the chimney system does not flow. If the chimney is lined with plasterboard, it is necessary to use fireproof plasterboard



3. PARTIALLY VENTILATED GAP

X safe distance of flammable structures from the chimney shell Temperature class T400	Description
30 mm	The gap ventilated through grids with an open area of min. 30 cm^2 at each wall, the top edge of the top grid max. 20 cm under the ceiling, free air circulation along the complete chimney periphery must be guaranteed. If the chimney is lined with plasterboard, it is necessary to use fireproof plasterboard

NOTE:

- It is possible to reduce the safe distance "X" to 0 mm for thermal class T200 and lower in all cases.
- The distance from flammable materials can be reduced if the size of the flammable material is low, e.g. in the case of skirting boards. We recommend consulting a fire safety engineer.
- PVC roof sheets can only be connected directly to the chimney body if the complete part of the connected sheet is in direct contact with air in the exterior and neither overlaps nor is incorporated in any way, the chimney shell surface is treated in the connection place, and the chimney system is of temperature class T400. The maximum height of the contact area of the sheet with the chimney shell is 300 mm. It is recommended to carry out sheet anchoring to the chimney through system bars.
- The mentioned values apply to the wall thickness "S" up to 400 mm. If the wall thickness "S" is higher, please contact XXX | YYY, for an individual assessment on the basis of a specific wall composition.