



▶ Soundproofing jet ejectors



Körting

THE EJECTOR COMPANY

Soundproofing
recommendations

Körting Academy

Soundproofing methods

The methods described below for soundproofing jet ejectors, condensers, sound absorbers and pipes are merely suggestions. With this type of insulation, we expect a reduction in noise emissions of about 20 dB(A). Insulate both the pipes connected and

the jet ejector. If specifications guarantee particular sound pressure levels, insulation thicknesses have to be calculated individually. If required, we can give you a quote for carrying out the work involved.

INSULATION STRUCTURE

The materials described below apply to all sound insulation of jet ejectors, condensers, pipes and sound absorbers. We recommend mineral wool as the insulating material with a maximum bulk density of 140 kg/m³ (when fitted) in the form of mats and/or pipe sleeves. The thickness of the insulation layer must be at least 60 mm. The layers of mineral wool are covered with galvanised sheet steel that should be < 1.5 mm. Apply a deadening layer 3 mm thick to the inside of the sheet steel jacket. The deadening layer must comply with the following physical specifications:

- Bulk density > 1 000 kg/m³
- Multiply the loss factor and elastic modulus < 10⁹ N/m² for a temperature range of 0°C to 60°C.

Ensure that the deadening layer and the steel jacket are securely bonded with one another.

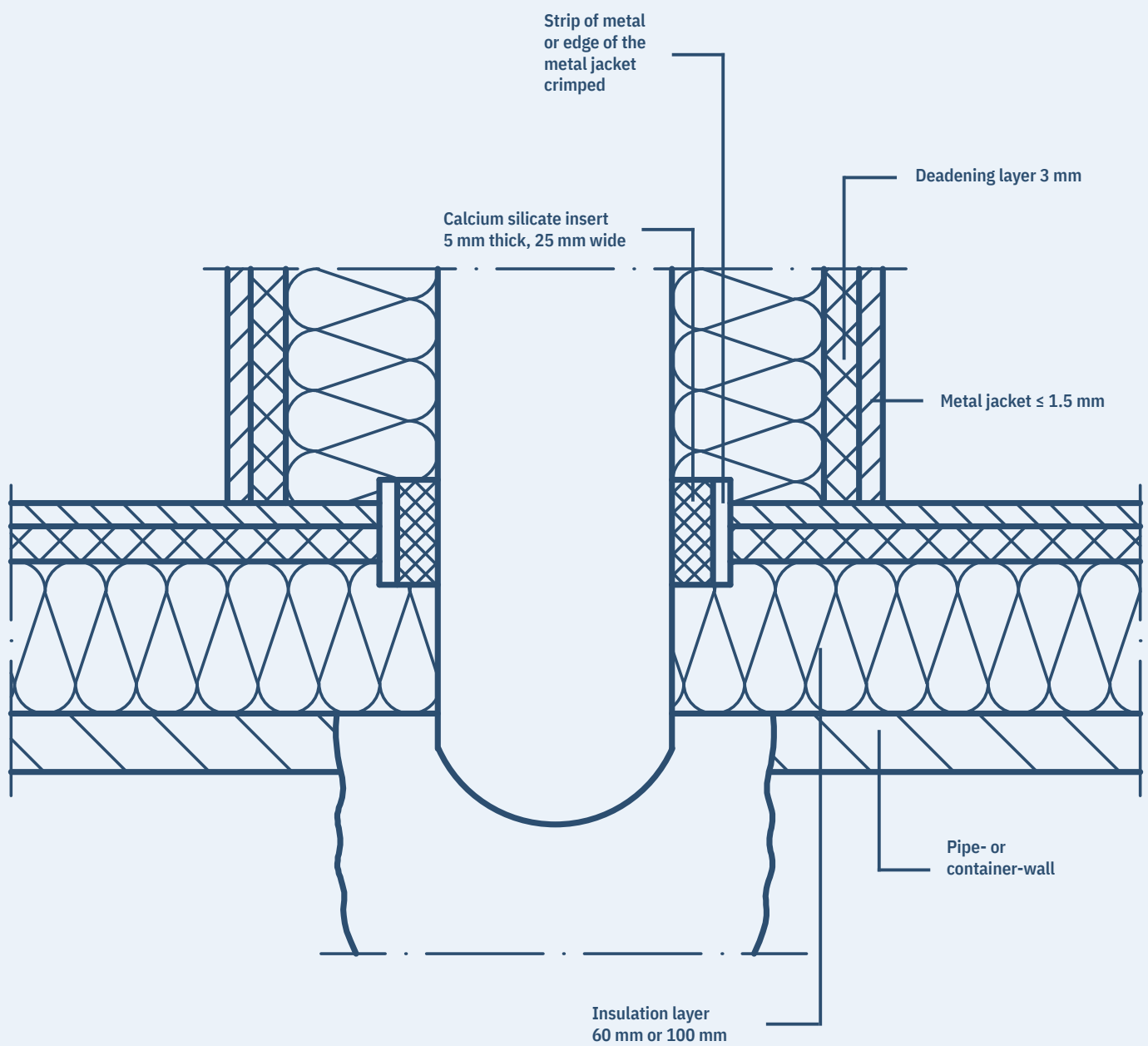
When soundproofing jet ejectors, condensers, elbows and silencers, ensure that no rigid bonds occur between the metal jacket on the exterior and the pipe- or container-walls. In particular, do not use any spacers. Figures 1 to 3 show the structure of the insulation concerned.

The flange and fittings are also soundproofed. Figures 4 and 5 give examples of the types of insulation.

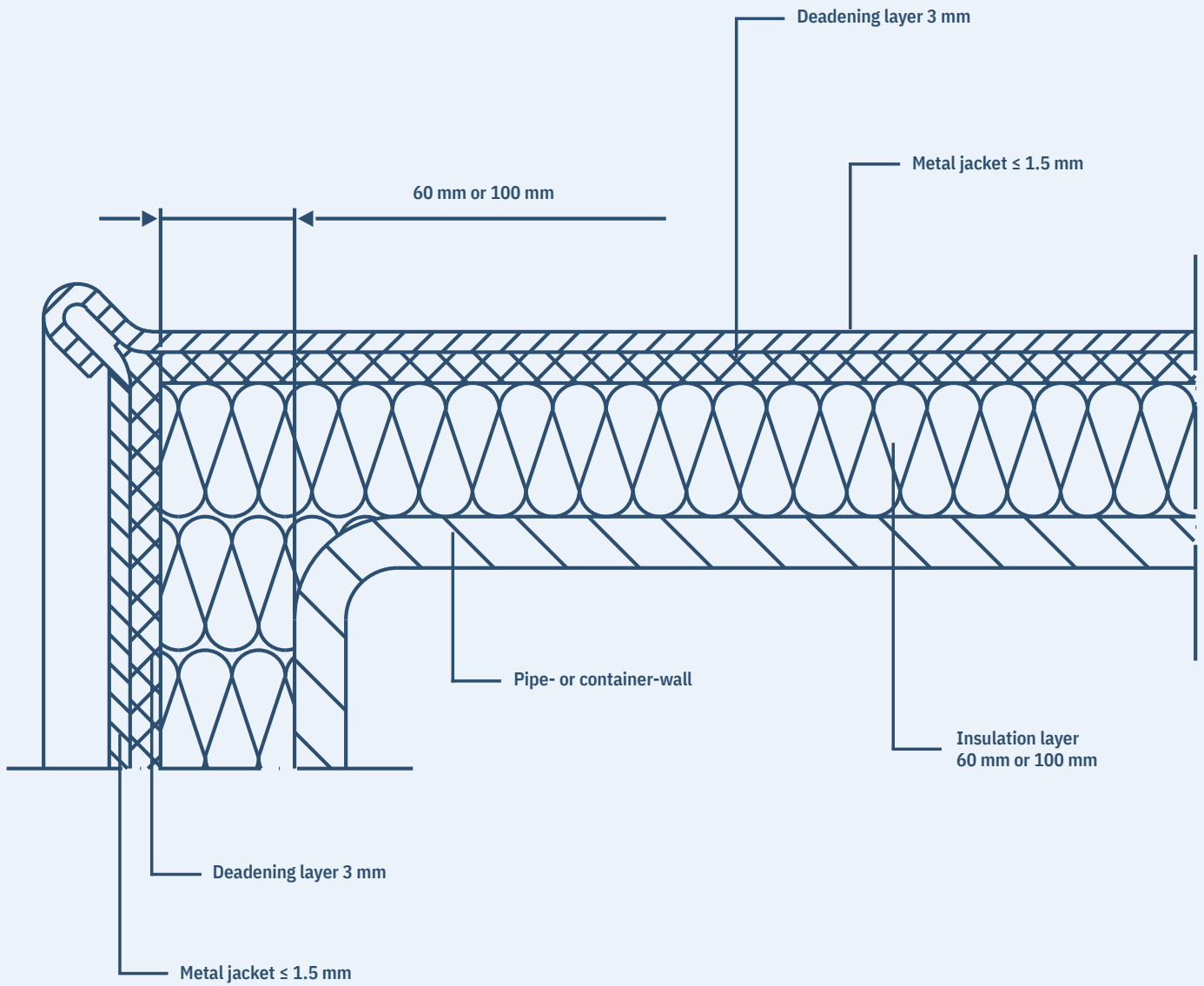


Figures and examples

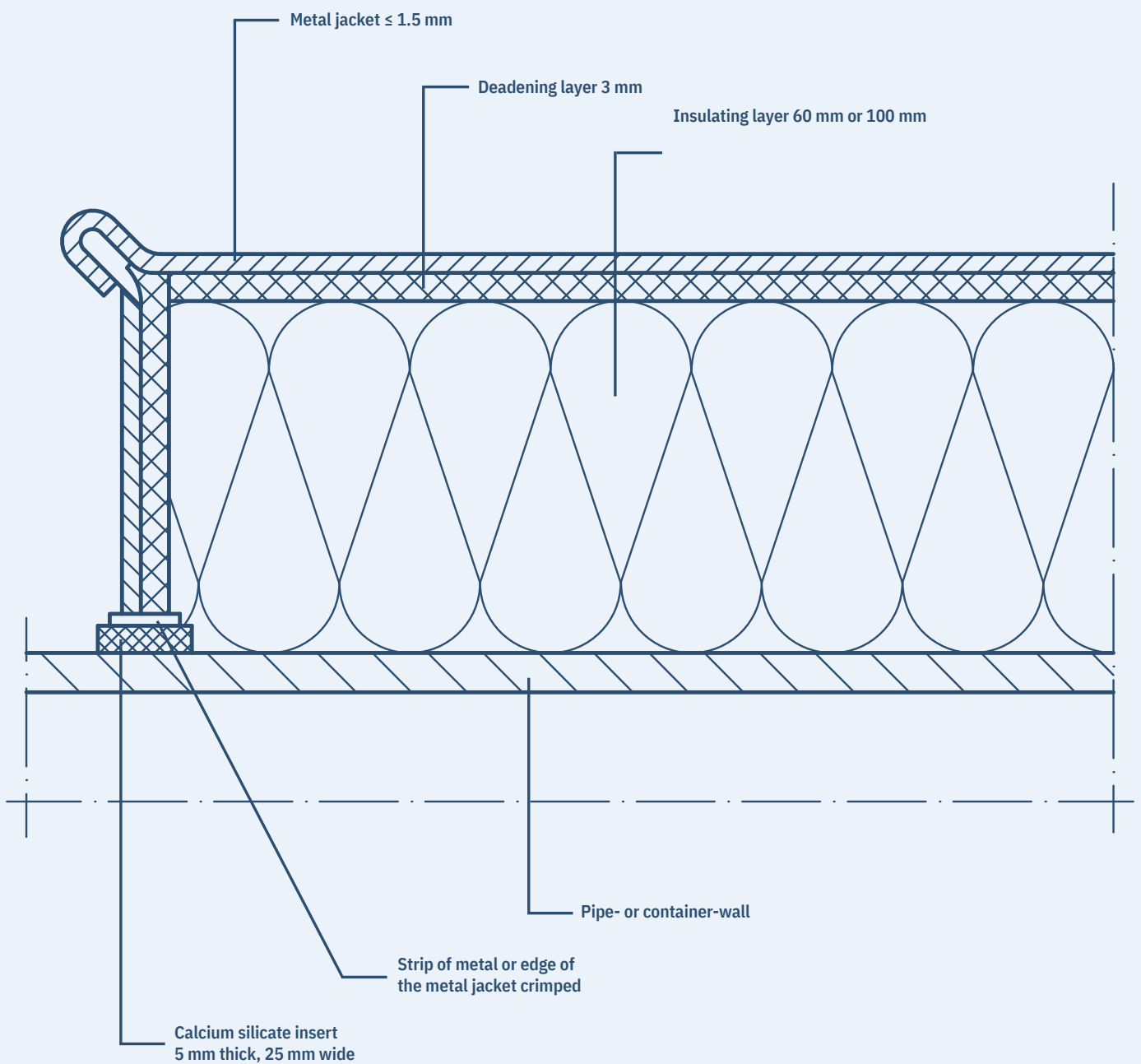
1. SOUNDPROOFING A PIPE BRANCH



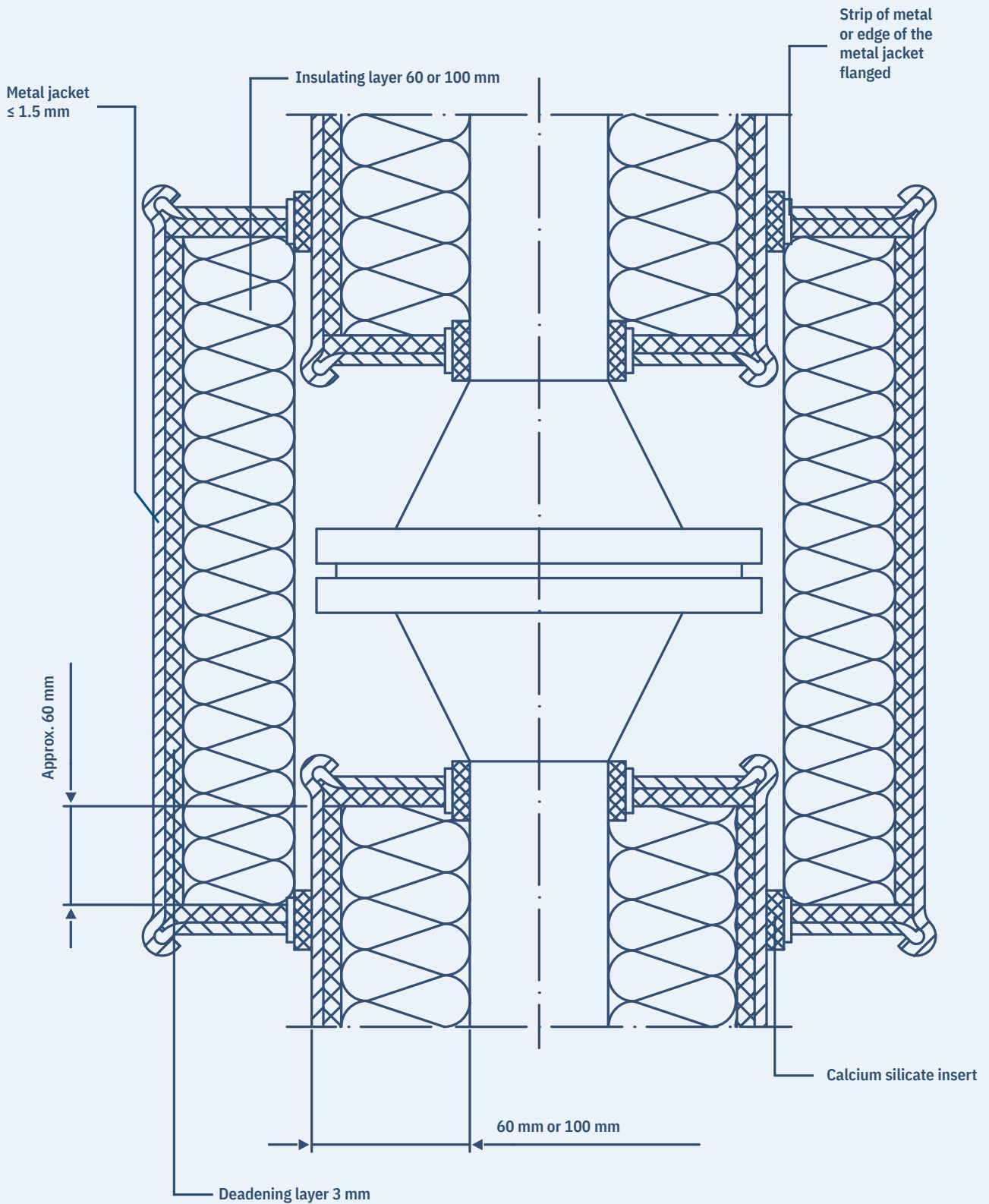
2. THE END OF A SOUNDPROOFING SECTION OF THE FLOOR OF THE PIPE OR CONTAINER



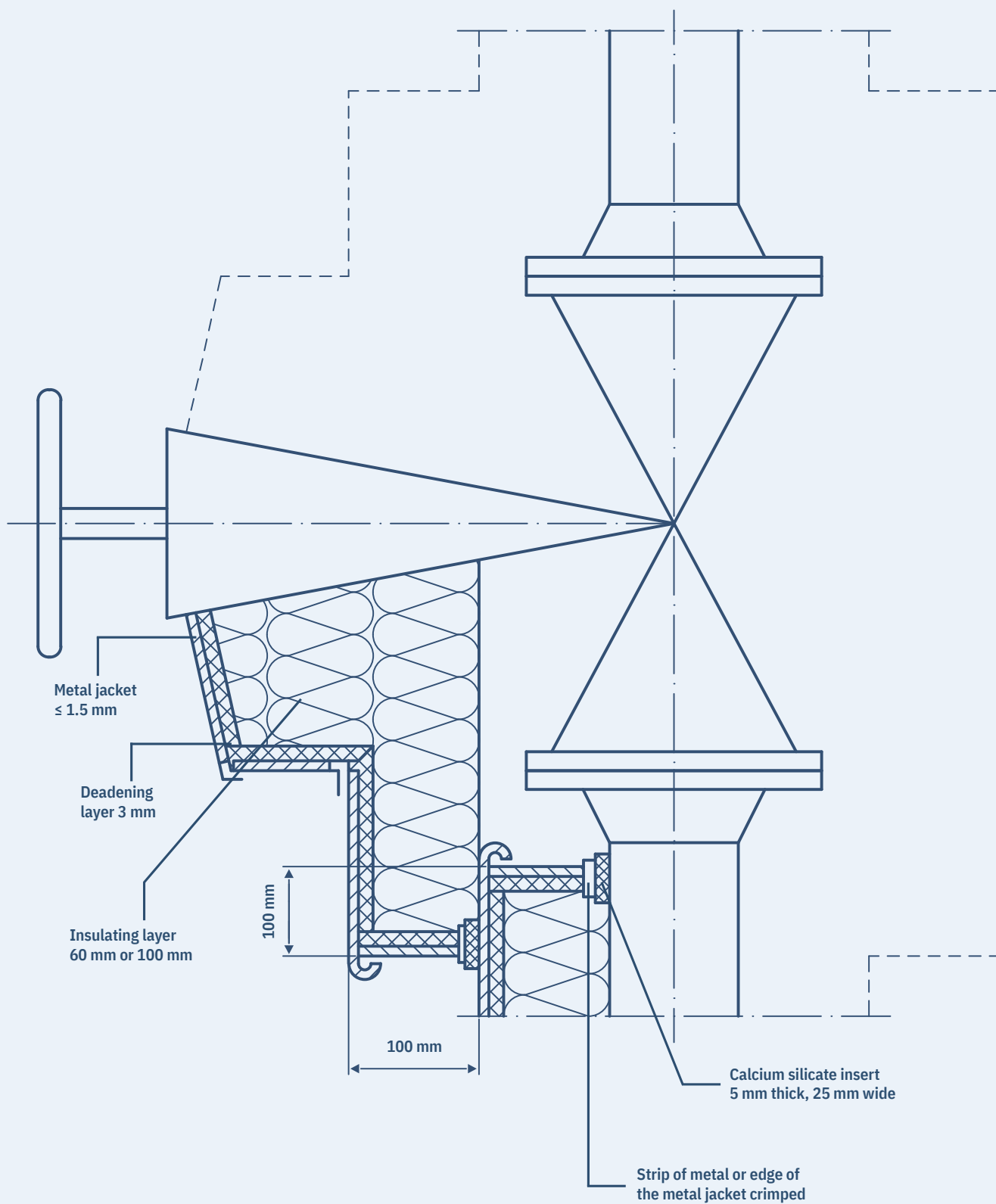
3. SOUNDPROOFING WITH A CONTINUOUS PIPE- OR CONTAINER-WALL WITH AN END PIECE



4. SOUNDPROOFING FLANGES



**5. SOUNDPROOFING
FITTINGS AND ACCESSORIES**





Körting Hannover GmbH

Badenstedter Str. 56

30453 Hannover | Germany

+49 511 2129-0

sales@koerting.de

K O E R T I N G . D E

