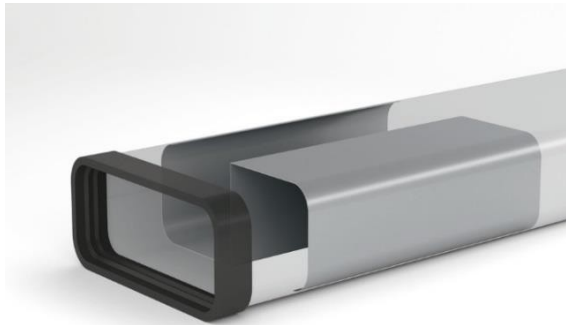


## SF-VRO 150 flat duct (4061003/4061004) incl. SF-VRO 150 support (4061029)

### Description:

Ventilation pipe incl. stiffening elements for installation within the floor structure.  
Connection dimension metal duct 216 x 83 mm (with seal).



was subjected to comparative tests on the required screed load-bearing capacity of strength class C25 – F4 according to DIN EN 13813. The studies have confirmed the load-bearing capacity of the construction. The recommendations are based on test report no. 6-53/1206/18 of 11.09.2018 by MPVA.

### Floor structure:

1. Cement screed CT-C25 F4 acc. DIN EN 13813 (screed thickness = 45 mm according to DIN 18560-1)
2. Footfall sound insulation  
Ratiodämm EPS folding panels 30-3  
DES sm CP3 SD15
3. 100 mm EPS thermal insulation EPS 035  
DEO/WAB dm incl. Steel Flow duct  
system laid in it, incl. support elements

### Footprint load capacity:

For safe installation in the building shell, the components of the flat duct system are designed for a tread capacity of approx. 100 kg (1000N).

### Installation recommendation:

The planner needs to calculate the height of the floor construction taking into account the thermal and footfall sound insulation, the type of screed, the floor covering, the effective load and the height compensation of installations. For the installation, the instructions for the planning and implementation of the floor construction for pipes, cables and installation parts on raw ceilings issued by the Zentralverband Deutsches Baugewerbe (ZDB) are to be observed. In order to make a recommendation to the planner, Naber GmbH has commissioned Materialprüfungs- und Versuchsanstalt Neuwied GmbH to carry out comparative studies on the mechanical load-bearing capacity of the floor structure when the Steel Flow air duct system is installed. In the context of the investigations, the floor structure



### Footfall sound transmission:

Footfall sound transmission measurements carried out in a standard floor structure for residential buildings with and without Steel Flow flat duct elements showed that the footfall sound transmission is not affected by the insertion of a ventilation pipe.