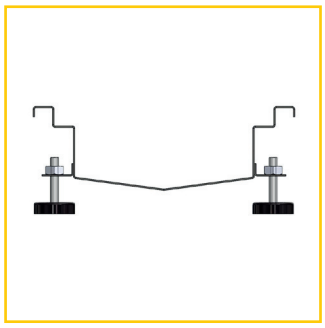
Box channels

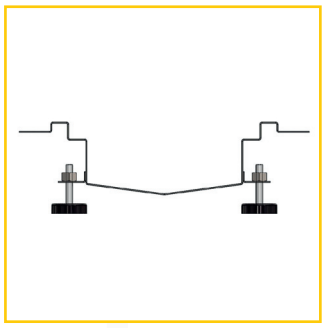
Water drainage technology for the food processing industry, industrial kitchens, and vineyards

The use of water drainage channels for food processing and industrial kitchen applications presents special requirements for materials grades and workmanship. By using stainless steel grades V2A (1.4301) and V4A (1.4571), MVH channels are resistant to exposure to acids, alkalines, cleaning agents, etc. Pickling in dip tanks creates a uniform, smooth finish that prevents bonding of contaminant particles. Cleaning the channels and drains is also simplified. The design of the box channel and the wide range of channel profiles allows the matching MHV channel to be found for any installation situation. This also applies for the loads generated during use e.g. due to forklifts. Our covers can also be designed for any load class. The ability to combine box channels with drain spouts or MVH floor drains allows a water drainage system to be created that ideally matches your requirements. Do not hesitate to contact us. Our field sales staff is delighted to advise you.

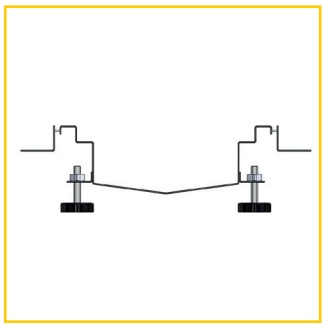
Channel profiles



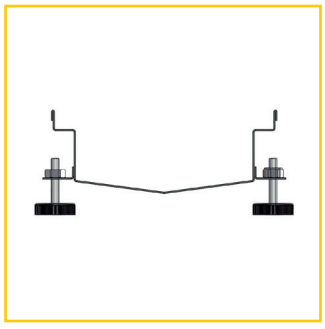
K1.1
Box channel with wrap-around raised step and thin substrate flange



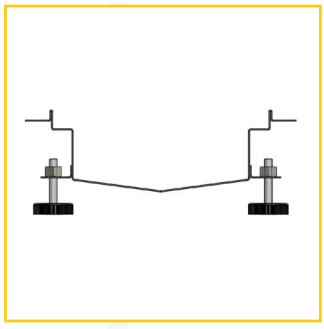
K1.2
Box channel with wrap-around raised step and thin substrate flange



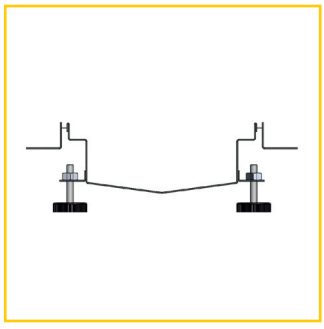
K1.3
Box channel with wrap-around raised step and tile angle



K2.1
Box channel with crimped top edge



K2.2
Box channel with crimped top edge and wrap-around thin substrate flange



K2.3
Box channel with crimped top edge and wrap-around tile angle

Box channels

Water drainage technology for the food processing industry, industrial kitchens, and vineyards

System features

Material: Stainless steel, grade V2A (1.4301), V4A grades1.4571 or 1.4404 are available for elevated requirements due to exposure to acids, alklaines, chlorides, etc.

Material thickness: standard 1.5 mm, greater material thicknesses possible

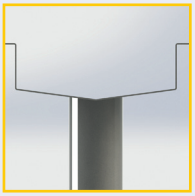
Finishes: pickled in dip tanks, bead blasting and electrolytic polishing on request

Channel lengths: standard 3,000 mm, cut-to-length sections and custom lengths up to 6,000 mm possible

Channel widths: all widths, starting at 150 mm; available depending on hydraulic requirements

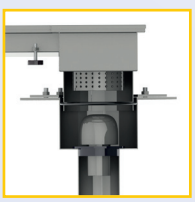
Intrinsic grade: box channels with boxed-in grade to the drains, depending on generated water volumes and grade conditions in the room to be drained

Connection options:

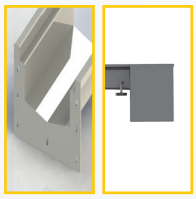


integrated drain spouts DN 70 or DN 100, not incl. odor trap with vertical or horizontal orientation, other spout diameters on request.

Integrated, single-piece floor drains DN 70 and DN 100 with removable odor trap and dirt collector, see floor drain section for more information.

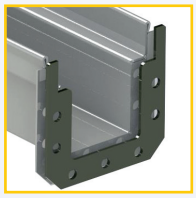


Integrated, two-piece floor drains DN 70 and DN 100 with adhesive flange or compression seal flange to connect the seal, floor drains with removable odor trap and dirt collector, see floor drain section for more information.



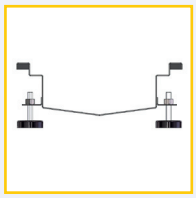
The box channel is connected to a pump sump at the installation site with an open front face with adapter flange;
on MVH pump sumps, the box channel is welded directly to the pump sump

Connection elements:



Adapter flange with screws and gasket; our partner contractors can also butt-weld the channels at the construction site

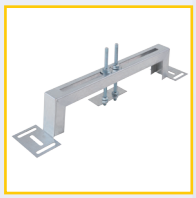
Raised step liners:



the wrap-around raised steps are lined with factory-installed PVC profiles or alternatively with solid stainless steel; this allows MVH box channels to be lined/cast without cavities.

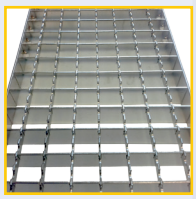
Assembly systems:

for installing before concrete is poured or the floor screed is applied by using MVH adjustable supports with threaded rods for continuously adjustable height



on existing joints with MVH installation aids

Covers:



MVH grates with standard mesh width MW 23/23 in non-slip design; see cover option section for other grates and additional cover options