

MKL Roof Transition

The MKL roof transition is designed for installation with roof hoods, air intake devices and with roof fan. For connecting with roof fan, the MKL is also equipped with an electrical cable conduit. The MKL roof transition can be easily installed in the roof structure by the angle brackets. Factory-made roof transition with suitable roof product ensure the best waterproof and safe solution.

- 15 standard sizes: 300x300 up to 1600x1600 mm.
- Magnelis® sheet steel, corrosivity category is C4.
- Standard height 1200 mm.
- Can be ordered with EI120 fire insulation.
- On special order, we manufacture special dimensions and from special materials including painted.



Material and Dimensions

As standard manufactured of Magnelis® sheet steel (ZM310) and insulated with 50 mm mineral wool.

Inner shell types:

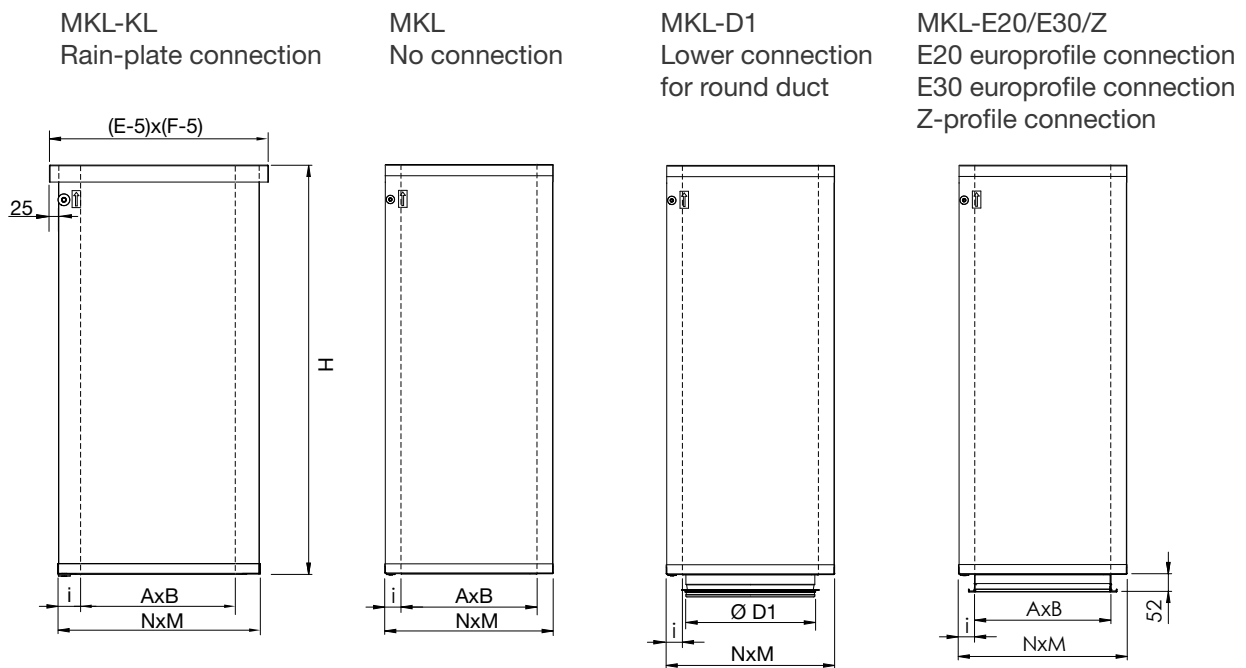
MKL-1 – perforated sheet steel.

MKL-2 – non-perforated sheet steel.

MKL-3 – mineral wool (Cleantec), without inner shell.

- Possible to produce with 50 mm fire insulation (compliance to EI30 class) and 100 mm fire insulation mineral wool (compliance up to EI120 class) and non-perforated sheet steel inner shell. Used fire insulation meets the testing methods requirements according to EN1366-1 and is VTT certified. Fire insulation strengths in accordance with EN-13501-1.
- Standard height 1200 mm. Other heights can be ordered (800-2000 mm).
- As standard, the roof transition is equipped with cable conduit for electric cable installation. The cable drawn in through the bottom of the roof transition and exit 100 mm from the top edge.
- For installation through sloping roofs the roof transition comes as standard with two installation brackets (100x100x1,2 L=A+400).
- As an accessory, a non-return damper and a fitting for rectangular or round duct/roof hood connection.

Dimensions



Nominal size NxM (mm)	NxM (mm)	KL-ExF (mm)	AxB (mm)		MKL-3 weight (kg)	
			i=50 (mm)	i=100 (mm)	i=50 mm	i=100 mm
300x300	295x295	350x350	192x192	-	20	24
400x400	395x395	450x450	292x292	192x192	24	30
500x500	495x495	550x550	392x392	292x292	29	36
600x600	595x595	650x650	492x492	392x392	34	43
700x700	695x695	750x750	592x592	492x492	39	49
750x750	745x745	800x800	642x642	542x542	48	59
800x800	795x795	850x850	692x692	592x592	50	62
900x900	895x895	950x950	792x792	692x692	62	75
1000x1000	995x995	1050x1050	892x892	792x792	65	80
1100x1100	1095x1095	1150x1150	992x992	892x892	73	90
1200x1200	1195x1195	1250x1250	1092x1092	992x992	78	96
1300x1300	1295x1295	1350x1350	1192x1192	1092x1092	83	103
1400x1400	1395x1395	1450x1450	1292x1292	1192x1192	88	109
1500x1500	1495x1495	1550x1550	1392x1392	1292x1292	111	134
1600x1600	1595x1595	1650x1650	1492x1492	1392x1392	121	146

Product Marking

MKL - 1 - 50 - H N×M - H KL-ExF / Z

Marking

Inner shell

- 1 - perforated
- 2 - sheet steel
- 3 - mineral wool (Cleantec)

Insulation

- 50 - mineral wool 50 mm
- 100 - mineral wool 100 mm
- EI30 - fire insulation, 50 mm
(always used with sheet steel, inner shell=2)
- EI120 - fire insulation, 100 mm
(always used with sheet steel, inner shell=2)

Material (external + internal)

- Standard material Magnelis® (ZM310), not marked
- H - acid-proof steel (AISI 316L)

Nominal size N×M

Height H

800-2000 mm, step 100 mm

Upper connection

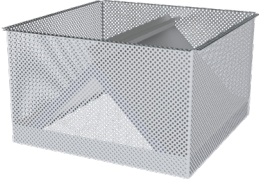
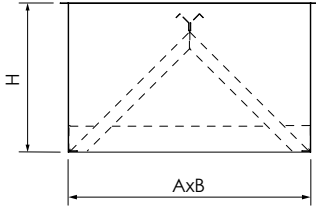
- D2 - for round duct
- Z - z-profile for rectangular duct
- E30 - europrofile for rectangular duct
- KL-ExF - Rain-plate connection (KL)


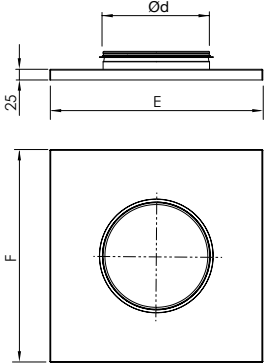
Lower connection

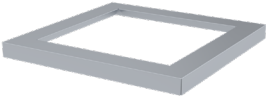
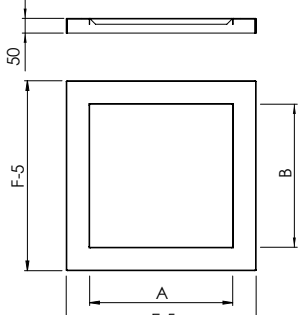
- D1 - for round duct
- Z - z-profile for rectangular duct
- E20, E30 - europrofile for rectangular duct
- V - mesh

- Example:**
- MKL-1-50-H 400×400-1200 KL-450x450/Z**
 - MKL-2-50 600×600-1200 -/-**
 - MKL-2-EI120 400×400-1200 -/-**
 - MKL-3-50 600×600-1200 E30/E30**

Accessories

MKLK AxB Non-return damper (top-mounted) Example: MKLK 400x400	Nominal size AxB (mm)	AxB (mm)	H (mm)	Weight (kg)
	200x200	190x190	150	1,3
	300x300	290x290	225	2,6
	400x400	390x390	290	4,2
	500x500	490x490	355	5,6
	600x600	590x590	430	8,5
	700x700	690x690	500	11,1
	800x800	790x790	565	14,1
	900x900	890x890	640	17,6
	1000x1000	990x990	700	21,5
	1100x1100	1090x1090	785	25,6
	1200x1200	1190x1190	850	30,1
	1300x1300	1290x1290	920	34,9
	1400x1400	1390x1390	990	40,1
	1500x1500	1490x1490	1065	45,8
	1600x1600	1590x1590	1135	51,8

MKLV ExF/d Round coupling with rain-plate Example: MKLV 400x400/200	ExF (mm)	d (mm)	Weight (kg)
	400x400	100, 125, 160, 200	1,2
	450x450	100, 125, 160, 200	1,7
	500x500	250, 315	1,8
	550x550	250, 315	2,7
	600x600	315, 400	3
	650x650	315, 400	4,1
	700x700	400, 500	3,6
	750x750	400, 500	4,8
	800x800	500, 630	4,9
	850x850	500, 630	6,3
	900x900	500, 630	5,7
	950x950	500, 630	7,2
	1000x1000	630, 800	6,3
	1050x1050	630, 800	8
	1100x1100	800	8
	1150x1150	800	9,9
	1200x1200	1000	8,9
	1250x1250	1000	10,9
	1300x1300	1000	10,9
	1350x1350	1000	13,1
	1400x1400	1250	10,2
	1450x1450	1250	12,5
	1500x1500	1250	12,6
	1550x1550	1250	15,1
	1600x1600	1250	15,1
	1650x1650	1250	17,7
	1700x1700	1250, 1600	17,8
	1750x1750	1250, 1600	20,6
	1800x1800	1250, 1600	14,9
	1850x1850	1250, 1600	17,9

MKLF AxB-ExF MKLF rain-plate collar Example: MKLF 500x500-650x650	Nominal size AxB-ExF (mm)	AxB (mm)	ExF (mm)	Weight (kg)
 	200×200-350×350	190×190	350×350	1,5
	300×300-450×450	290×290	450×450	2,1
	400×400-550×550	390×390	550×550	2,6
	500×500-650×650	490×490	650×650	3,2
	600×600-750×750	590×590	750×750	3,7
	700×700-850×850	690×690	850×850	4,3
	800×800-950×950	790×790	950×950	4,8
	900×900-1050×1050	890×890	1050×1050	5,4
	1000×1000-1150×1150	990×990	1150×1150	5,9
	1100×1100-1250×1250	1090×1090	1250×1250	6,5
	1200×1200-1350×1350	1190×1190	1350×1350	7,0
	1300×1300-1450×1450	1290×1290	1450×1450	7,6
	1400×1400-1550×1550	1390×1390	1550×1550	8,1
	1500×1500-1650×1650	1490×1490	1650×1650	8,7
	1600×1600-1750×1750	1590×1590	1750×1750	9,2