



Design of protective foil



Description

TEK installation trunking range, made of cadmium-free and lead-free PVC, is available in three sizes. TEK is intended for wall surface mounting or for mounting on brackets.

Cable shelves can be used to divide the trunking into compartments, for separation of power and low voltage cables.

TEK is designed mainly for installation at mid-wall (window-sill) or skirting level but is also suitable as feeder trunking.

TEK is easy to cut, has a high gloss value which makes cleaning easy, has a high UV stability value and is easy to install.

TEK can be equipped with service content type CYB. Boxes, outlets and accessories are snap-fitted into the front opening (F80®).

Compatibility with trunking accessories such as front cover FCA-F80, TTI cable shelves and joint cover pieces, TTA brackets.

Benefits

- High-gloss surface – easy to keep clean
- High UV-stability – counteracts colour changes
- Environment-friendly – lead and cadmium-free PVC
- Can be fitted with a front mantle to hide and protect the connections and flexes and to reduce the electrical fields
- Protection foil until final installation has been made
- Wide range of components, accessories and outlets
- Snap-in functions – easy to install
- Hole pattern in the trunking back – easy direct mounting on the wall

Standards & approvals

Standards	EN 50085-1:1997+A1:1998
	SS 424 10 02:1993
	KEMA 55A:1984
Approvals	CE
	TEK-100 SEMKO, NEMKO, KEMA
	TEK-123 SEMKO, NEMKO, VDE, SETI, KEMA
	TEK-161-3 SEMKO, NEMKO, VDE, KEMA

Material and operative data

Material	PVC, self-extinguishing, cadmium-free and lead-free
Density	1.5 g/cm ³
Linear expansion	60×10 ⁻⁶ m/°C
Volume resistivity	>10 ¹³ Ω × m (DIN 53482)
Dielectric strength	>20 kV/mm (ISO/DIN)
Colour spec.	• White NCS 0401-Y62R • White RAL 9010 • White RAL 1013
Material	ABS
Density	1.07 g/cm ³
Colour spec.	• White NCS 0401-Y62R • White RAL 9010 • White RAL 1013
Material	PC/ABS
Density	1.17 g/cm ³
Colour	White
Material	PP (polypropylene)
Density	0.9 g/cm ³
Colour	Grey
Temperature range	From -20° to +60°C
Degree of protection	IP20
Chemical resistance	For extruded profiles in accordance with ISO Technical Report 7473

Mounting instructions

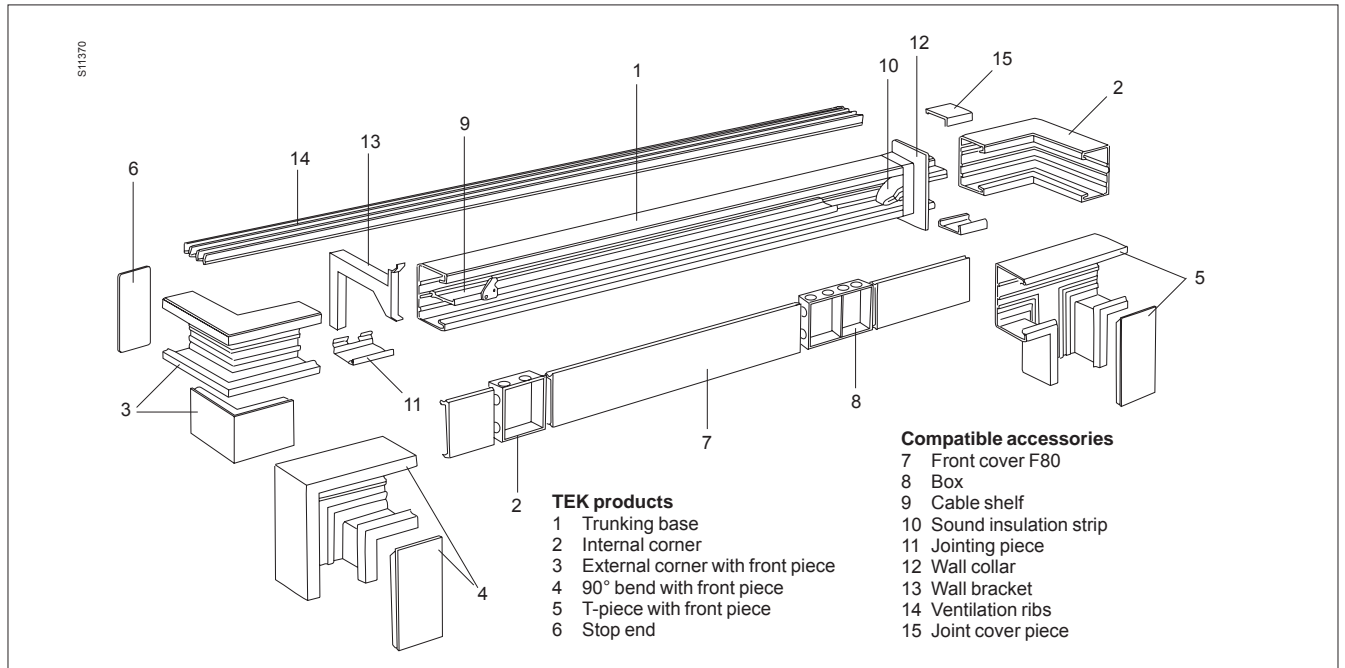
Mounting instructions are enclosed with the product. Mounting instructions are also available on PI@net.

Product	Art.No.
TEK-100	No. 75232/MI 2296
TEK-123/161-3	No. 75231/MI 2297

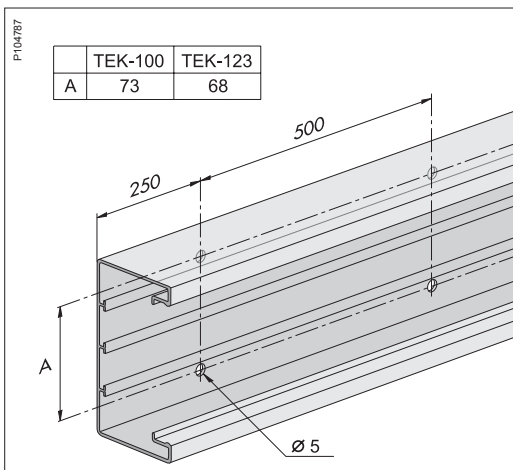
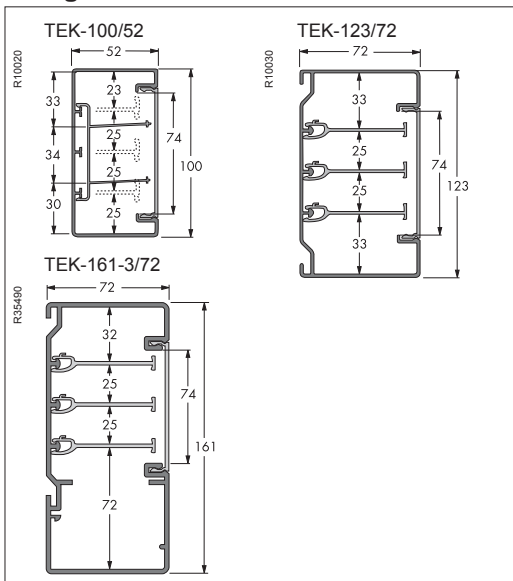
Product Environmental Facts

Product Environmental Facts are available on PI@net.

Exploded view



Design and dimensions



Package info

Package information is included in the Prodat file, which is available in the SAP system. Package information can also be obtained from the responsible factory.

Performance

Loads

Load between two brackets 750 N, statical load

Sound insulation

Measurement data per trunking and installation method acc. to ISO 140-10 (reference area 10 m²)

Trunking	Divided	Whole	T5070	T3045	D _{w,8} [dB]	D _w [dB]
TEK-100 distance	X			3x1	58	61
TEK 100 distance	X			3x2	68	68
TEK 100 distance		X		3x1	50	55
TEK 100 distance		X		3x2	62	62
TEK 100 flush	X			3x1	65	66
TEK 100 flush	X			3x2	70	70
TEK 100 flush		X		3x1	55	59
TEK 100 flush		X		3x2	69	69
TEK-123 X		2x1		65	—	
TEK-123 X		2x2		66	—	
TEK-123	X	2x1		58	—	
TEK-123	X	2x2		60	—	
TEK-161-3*		X	3x1		55	55
TEK-161-3*		X	3x2		59	59
TEK-161-3*	X		3x1		62	62
TEK-161-3*	X		3x2		66	66

* = Calculated value

D_w = Sound insulation referring to 10 m²

D_{w,8} = Sound insulation referring to 10 m² with Swedish additional regulation of 8 dB.

Comments on measurement values

To obtain sound insulation, the type and quantity of the insulating strips must be in accordance with the table.

The column T5070 shows the number of insulating strips of each type respectively. 3x1 implies three insulating strips from one direction and 3x2 implies three strips from either side, i.e. six strips altogether.

Please note that the insulating strips are packed in bundles of four, i.e. the T-number states four strips.

Divided in the table heading means that the trunking is divided inside the wall and whole means that the trunking passes through the wall without being divided.

Cable capacity TEK-100/52



Comp No	Max Ø mm	Cross section area mm ²	Cable capacity, mm ²		
			40%	50%	60%
Without mounting boxes					
1	35	3665	1466	1833	2199
2	25	1110	444	555	666
3	25	902	361	451	541
4	25	1026	410	513	616
5	20	795	318	398	477
6	20	763	305	382	458
7	20	763	305	382	458
8	20	902	361	451	541
With 40 mm deep MIB & CYB boxes					
1	12	1411	564	706	847
2	12	524	210	262	314
3			0	0	0
4	12	527	211	264	316
5	12	536	214	268	322
6	6	92	37	46	55
7	6	101	40	51	61
8	12	539	216	270	323
With CAN boxes					
1	12	1525	610	763	915
2	12	517	207	259	310
3			0	0	0
4	12	541	216	271	325
5	12	536	214	268	322
6	8	128	51	64	77
7	8	131	52	66	79
8	12	545	218	273	327
With 30 mm deep CYB boxes					
1	20	2268	907	1134	1361
2	20	737	295	369	442
3	8	282	113	141	169
4	20	702	281	351	421
5	20	638	255	319	383
6	15	325	130	163	195
7	15	327	131	164	196
8	20	647	259	324	388

TEK-123/72

Without mounting boxes					
1	55	6449	2580	3225	3869
2	35	1651	660	826	991
3	30	1197	479	599	718
4	35	1604	642	802	962
5	30	1661	664	831	997
6	20	1199	480	600	719
7	20	1199	480	600	719
8	30	1916	766	958	1150
With 40 mm deep MIB & CYB boxes					
1	20	4194	1678	2097	2516
2	20	2328	931	1164	1397
3	15	495	198	248	297
4	20	1220	488	610	732
5	20	1433	573	717	860
6	15	476	190	238	286
7	15	476	190	238	286
8	20	1470	588	735	882
With CAN boxes					
1	20	4308	1723	2154	2585
2	20	1258	503	629	755
3	15	576	230	288	346
4	20	1248	499	624	749
5	20	1408	563	704	845
6	15	522	209	261	313
7	15	522	209	261	313
8	20	1497	599	749	898
With 30 mm deep CYB boxes					
1	30	5052	2021	2526	3031
2	25	1447	579	724	868
3	25	876	350	438	526
4	25	1424	570	712	854
5	25	1527	611	764	916
6	20	742	297	371	445
7	20	742	297	371	445
8	25	2078	831	1039	1247

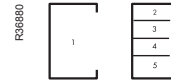
Electric fields

The measurements refer to TEK with typical cable and outlet configurations.

The recommendations from "Svenska Byggnadsstyrelsen" (T:134/1992-02) have served as guidance for the measurements. The limits at 0.5 m distance are 10 V/m for electric fields.

Test objects	Installation trunking: TEK
	Outlets and connections: CAN
	Cables: Type 1 = H05 VV-U 5G 1.5, Type 2 = similar to type 1 but with a bi-conductor as shield, 1.5 mm ² (types acc. to CENELEC HD 21 sec. 2.3)
Instruments	Radians Innova EMM-4
Voltage	240 V/50 Hz
Current	19 A nominal
Point of measurement	The fields were measured at 0.5 m from the objects
Test results	The values are maximum values for the E-field in V/m.
	Product M1 M3 M4
TEK	54 1.1 20
	M1 refers to cable Type 1 in trunking. M3 refers to cable Type 2 with earthed shield in trunking. M4 refers to cable Type 2 with earthed shield and with CAN outlet in trunking.

Cable capacity TEK-161-3/72






Comp No	Max Ø mm	Cross section area mm ²	Cable capacity, mm ²		
			40%	50%	60%
Without mounting boxes					
1	60	8918	3567	4459	5351
2	30	1700	680	850	1020
3	22	1170	468	585	702
4	22	1170	468	585	702
5	56	4298	1719	2149	2579
With 40 mm deep MIB & CYB boxes					
1	56	6652	2661	3326	3991
2	24	1400	560	700	840
3	16	440	176	220	264
4	16	440	176	220	264
5	56	3847	1539	1924	2308
With CAN boxes					
1	56	6710	2684	3355	4026
2	24	1507	603	754	904
3	16	550	220	275	330
4	16	550	220	275	330
5	56	4010	1604	2005	2406
With 30 mm deep CYB boxes					
1	56	7558	3023	3779	4535
2	28	1485	594	743	891
3	20	700	280	350	420
4	20	700	280	350	420
5	56	4538	1815	2269	2723

Cross section area matrix, mm²









Matrix to be used in conjunction with cable capacity tables above.

Round cable Ø mm	Number of cables									
	1	2	3	4	5	6	7	8	9	10
3	7.1	14.2	21.3	28.4	35.5	42.6	49.7	56.8	63.9	71
4	12.6	25.2	37.8	50.4	63.0	75.6	88.2	101	113	12
5	19.6	39.2	58.8	78.4	98.0	118	137	157	176	196
6	28.3	56.6	84.9	113	142	170	198	226	255	283
7	38.5	77	116	154	193	231	270	308	347	385
8	50.0	100	150	200	250	300	350	400	450	500
9	63.7	127	191	255	319	382	446	510	573	637
10	78.5	157	236	314	393	471	550	628	707	785
11	95	190	285	380	475	570	665	760	855	950
12	113	226	339	452	565	678	791	904	1017	1130
13	133	266	399	532	665	798	931	1064	1197	1330
14	154	308	462	616	770	924	1078	1232	1386	1540
15	177	354	531	708	885	1062	1239	1416	1593	1770
16	201	402	603	804	1005	1206	1407	1608	1809	2010
17	227	454	681	908	1135	1362	1589	1816	2043	2270
18	255	510	765	1020	1275	1530	1785	2040	2295	2550
19	284	568	852	1136	1420	1704	1988	2272	2556	2840
20	315	630	945	1260	1575	1890	2205	2520	2835	3150
Oval cable mm	Number of cables									
	1	2	3	4	5	6	7	8	9	10
2 × 3	5.2	10.4	15.6	20.8	26	31.2	36.4	41.6	46.8	52
2 × 5	9.2	18.4	27.6	36.8	46	55.2	64.4	73.6	82.8	92
3 × 6	16.1	32.2	48.3	64.4	80.5	96.6	112.7	128.8	144.9	161
4 × 7	24.6	49.2	73.8	98.4	123	147.6	172.2	196.8	221.4	246

Length material

Type	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Internal ID-No.	Ref. No.
Trunking base						
Trunking base with F80° front opening. Can be divided into compartments by means of cable shelves. To be used as perimeter trunking, mounted direct onto the wall or on brackets. Also suitable as feeder trunking. Compatible with FCA-F80, MIB boxes, TTI box holder, TTI cable shelves for 52 and 72 mm deep trunking, TTA brackets. Material: PVC.						
	TEK-U100	White RAL 9010 White NCS	100/52/2500	4	7315880021780 7315885522022	10003361 10003360 5522 029 5522 020
	TEK-UH100	White NCS	100/52/2550	4	7315885522015	10003358 5522 010
	With pre-punched holes in the back					
	TEK-U123	White RAL 9010 White NCS	123/72/2500	4	7315880006121 7315885526013	10003365 10003362 5526 019 5526 010
	TEK-U161-3	White RAL 9010 White NCS	161/72/2500	4	7315880035145 7315885532021	10003379 10003378 5532 021 5532 020
	TEK-U161-3	White RAL 9010	161/72/6000	4	7315880105909	20037754 5532 025

Form pieces

Internal corners						
Internal corner with F80° front opening. Can be divided into compartments by means of cable shelves. TEK-IHH100 has pre-punched holes for cable passage. Material: PVC.						
	TEK-IH100	White RAL 9010 White NCS	100/200/200	1	7315880021902 7315880066701	10003866 10003864 5576 109 5576 101
	TEK-IHH100	White NCS	100/200/200	1	7315885576100	10003863 5576 100
With pre-punched holes in the back						
	TEK-IH123	White RAL 9010 White NCS	123/200/200	1	7315880006152 7315885526518	10003369 10003366 5526 519 5526 510
	TEK-IH161-3	White RAL 9010 White NCS	161/200/200	1	7315880035169 7315885532601	10003383 10003382 5532 601 5532 600
External corner kits						
External corner with F80° front opening. Can be divided into compartments by means of cable shelves. TEK-IHH100 has pre-punched holes for cable passage. Supplied with front piece. Material: PVC.						
	TEK-YH100	White NCS	100/200/200	1	7315880006718	10003868 5576 111
	TEK-YHH100	White NCS	100/200/200	1	7315885576117	10003867 5576 110
With pre-punched holes in the back						
	TEK-YH123	White RAL 9010 White NCS	123/200/200	1	7315880006183 7315885526525	10003373 10003370 5526 529 5526 520
	TEK-YH161-3	White RAL 9010 White NCS	161/200/200	1	7315880035190 7315885532618	10003387 10003386 5532 611 5532 610
Bend kit, 90°						
90° bend with F80° front opening. Can be divided into compartments by means of cable shelves. TEK-LSH100 has pre-punched holes for cable passage. Supplied with 225 mm front piece. Material: PVC.						
	TEK-LS100	White RAL 9010 White NCS	200/52/200	1	7315880021940 7315880006725	10003874 10003872 5576 129 5576 121
	TEK-LSH100	White NCS	200/52/200	1	7315885576124	10003871 5576 120
With pre-punched holes in the back						
	TEK-LS123	White RAL 9010 White NCS	200/72/200	1	7315880006213 7315885526532	10003377 10003374 5526 539 5526 530

Form pieces

	Type	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Internal ID-No.	Ref. No.
	Bend kit, 90°, cont.						
	TEK-LSU161-3	White RAL 9010	200/72/200	1	7315880035220	10003391	5532 621
	Rising	White NCS			7315885532625	10003390	5532 620
	TEK-LSN161-3	White RAL 9010	200/72/200	1	7315880035251	10003395	5532 631
	Dropping	White NCS			7315885532632	10003394	5532 630
	T-piece, kit						
	T-piece with F80® front opening. Can be divided into compartments by means of cable shelves. TEK-TSH100 has pre-punched holes for cable passage. Supplied with 225 mm front piece. Material: PVC.						
	TEK-TS100	White RAL 9010	250/52/400	1	7315880021964	10003878	5576 139
		White NCS			7315880006732	10003876	5576 131
	TEK-TSH100	White NCS	250/52/400	1	7315885576131	10003875	5576 130
	With pre-punched holes in the back						
	TEK-TS123	White RAL 9010	200/72/280	1	7315880006756	10003883	5576 349
		White NCS			7315885576346	10003880	5576 340
	TEK-TSU161-3	White RAL 9010	260/72/360	1	7315880035292	10003399	5532 641
	Rising	White NCS			7315885532649	10003398	5532 640
	TEK-TSN161-3	White RAL 9010	260/72/360	1	7315880035312	10003403	5532 651
	Dropping	White NCS			7315885532656	10003402	5532 650

Other accessories

	Stop ends						
	Stop end for snap-fitting on the trunking end. Both for left-hand and right-hand mounting. Material: ABS.						
	TEK-ES100	White RAL 9010	100/29/52	1	7315880022183	10005192	5591 109
		White NCS			7315885591103	10005191	5591 100
	TTI-ES123	White RAL 9010	123/—/72	1	7315880011354	10004993	5590 237
		White NCS			7315880102625	20032026	5590 238
	TEK-ES161-3	White RAL 9010	161/21/72	1	7315880060888	10003407	5532 666
		White NCS			7315880060871	10003406	5532 665
	Supporting piece						
	Supporting piece to be used as a support when mounting front F80®. To be inserted under the front, between the front and back walls of the trunking base. Suitable for TEK-161-3. Material: PC/ABS.						
	TEK-K161-3	White	18/67.2/60	4	7315880037705	10005051	5590 341
	Joining piece						
	Internal joining piece to be used when joining trunking parts. Material: PC/ABS.						
	TTI-JP123	White	37/67/100	1	7315880022046	10004957	5590 115
	Bracket						
	Bracket for wall mounting of TEK-UH100, adjusted to the pre-punched holes of the trunking. To be screw-fixed to the wall. Material: PP.						
	TEK-D20	Grey	20/20/67	50	7315885591813	10005344	5591 810

