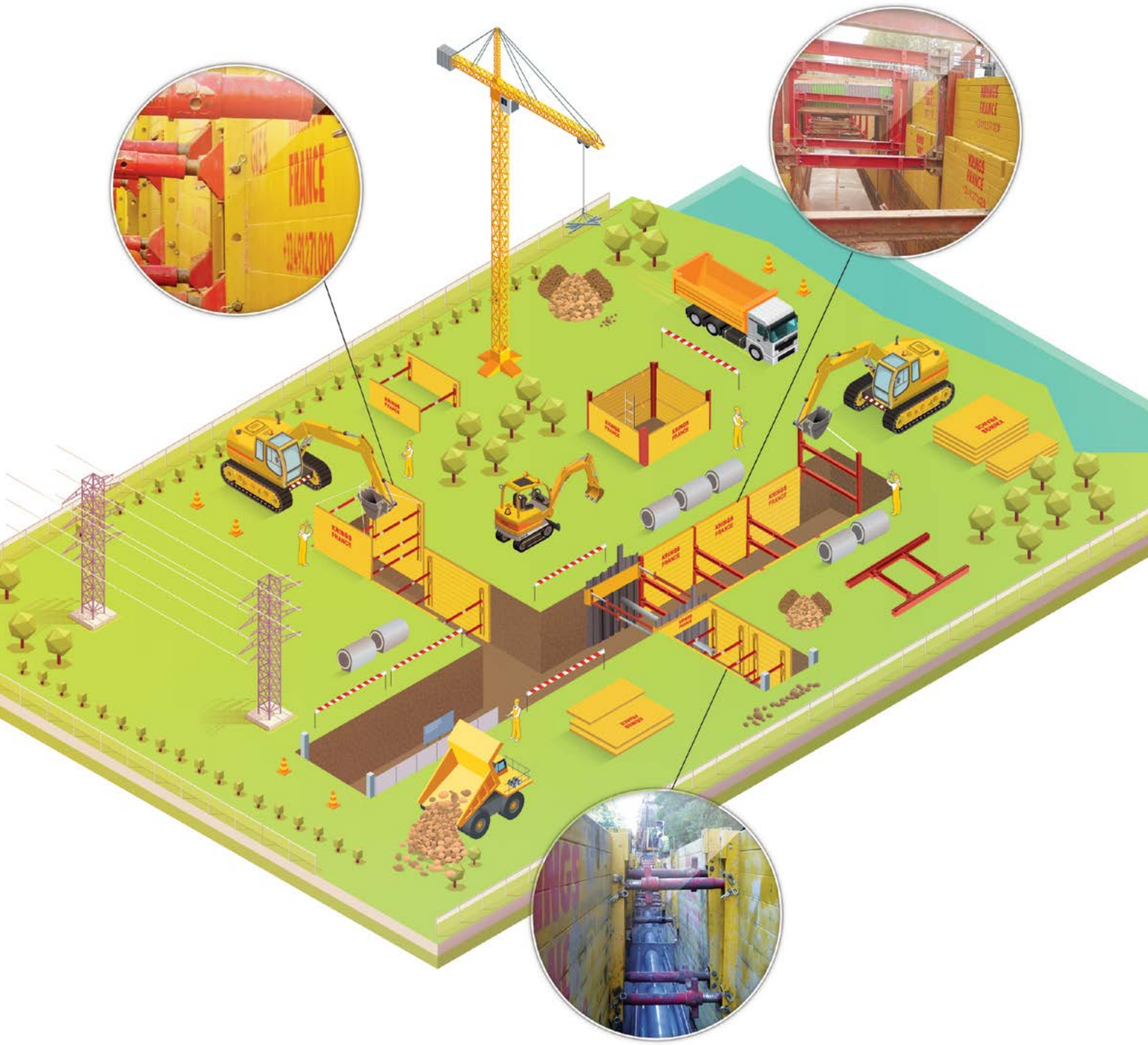
KRINGS
INTERNATIONAL
FRANCE

Trench Shoring
SYSTEMS

WWW.KRINGS.COM

SOMMAIRE


FRANCE

KVL **LIGHT BOX**

Unit Lenght	2.00 m - 3.50 m
Height Base Box	1.50 - 2.00 m
Height Top Extension Box	0.50 - 1.00 m
Vertical Clearance under Spindle	0.98m Max.
Weight	465 kg - 805 kg
Recommended Depth	up to 3.00m
Lifting means	excavator ≈ 5 to 13t

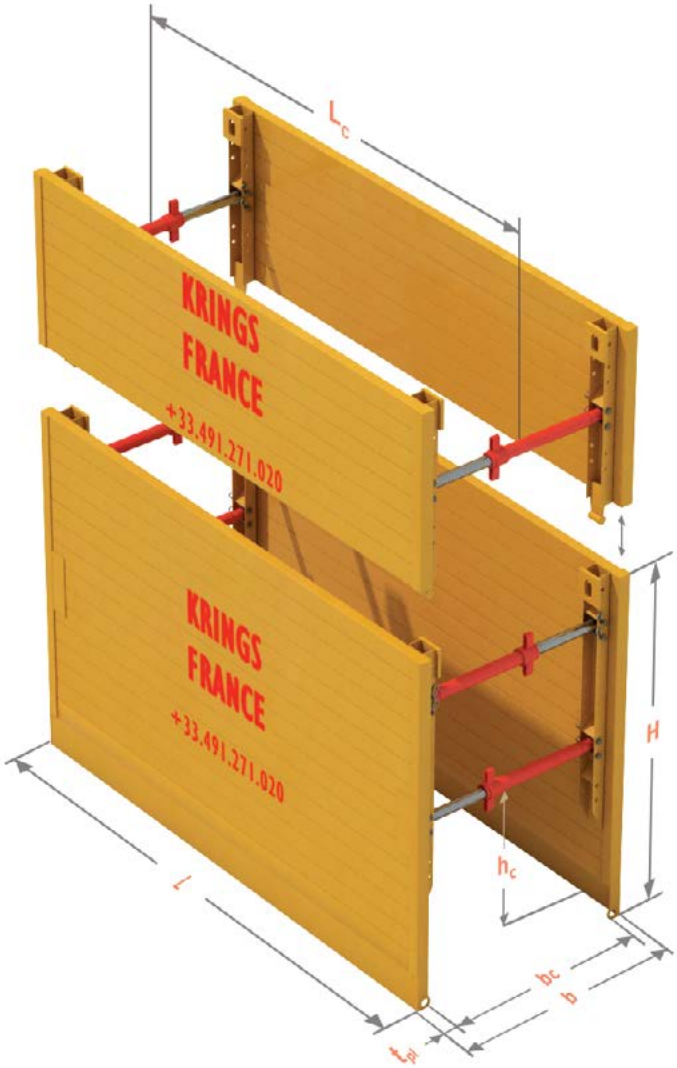
› This is the lightest in the steel trench box range. A small excavator can easily handle it. The KVL trench box is ideal for laying small diameter pipes at small depths.

› The 5 types of KVL spindles allow trench widths from 650mm to 2800mm.

› This box is ideal for urban sites and can be associated with the mini sheet pile guide box.

KVL **LIGHT BOX**

Conformity
DIN 4124
DIN EN 13331



H	Panel height
L	Panel length
h_c	Vertical clearance under spindle
L_c	Clearance between spindles
b_c	Effective width
b	Overall width
t_{pl}	Panel thickness

KVL **LIGHT BOX**

Base Panel LxH		Box Weight	Vertical clearance under spindle h_c	Clearance between spindles L_c	Panel thickness t_{pl}	Maximum loaded
[m]		[kg]	[mm]	[m]	[mm]	[kN/m²]
KVL 2.00x	1.5	465	720	1.69	60	53.3
	2.0	595	980			40.8
KVL 2.50x	1.5	595	720	2.19		42.6
	2.0	700	980			32.6
KVL 3.00x	1.5	625	720	2.69		32.0
	2.0	805	980			27.2
KVL 3.50x	1.5	835	720	3.19		30.0
	2.0	1090	980			30.0

Top Extension Panel		Box Weight	Vertical clearance under spindle h_c	Clearance between spindles L_c	Panel thickness t_{pl}	Maximum loaded
KVL 2.00x	0.5	205	-	1.69	60	53.3
	1.0	325	-			40.8
KVL 2.50x	0.5	235	-	2.19		42.6
	1.0	380	-			32.6
KVL 3.00x	0.5	270	-	2.69		32.0
	1.0	435	-			27.2
KVL 3.50x	0.5	330	-	3.19		30.0
	1.0	570	-			30.0

For any other dimensions, please consult us.

Tensile forces at the points of extraction, connection and towing (in the vertical direction) :

- Lifting eyes at the panel head Rd=229kN
- Bottom eyes of the panel Rd=23kN

Pipe Extension lengths	Effective Width b_c	Overall Width b	Weight
	[m]	[m]	[kg]
A	0.53 - 0.63	0.65 - 0.75	12.4
B	0.62 - 0.81	0.74 - 0.93	13.5
C	0.80 - 1.17	0.92 - 1.29	15.7
D	1.16 - 1.89	1.28 - 2.01	19.4
E	1.87 - 2.60	2.00 - 2.73	34.0

KS 60 **STANDARD BOX**

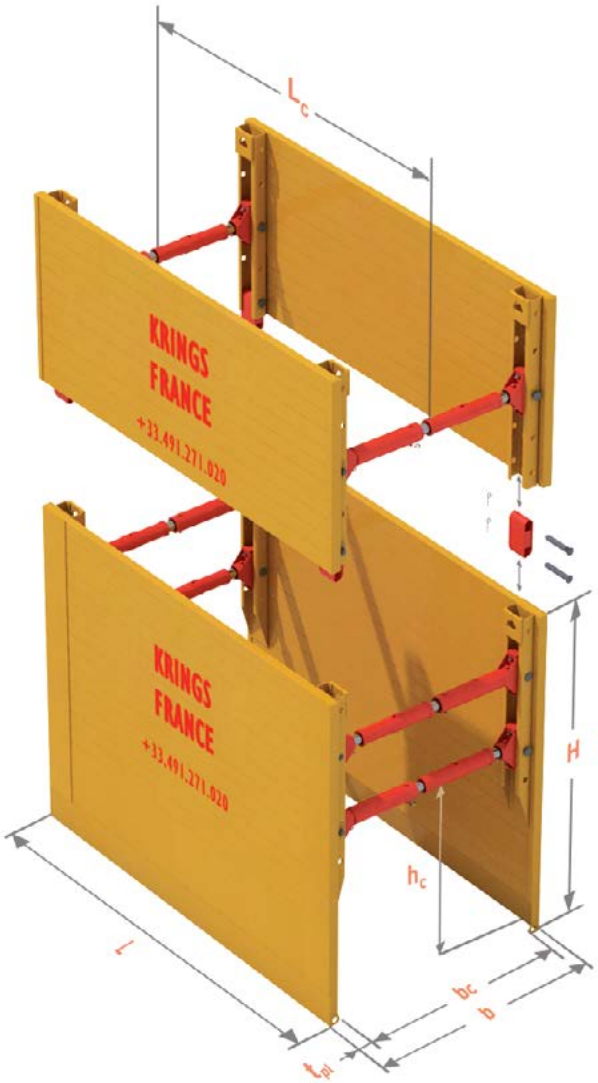
Unit Lenght	2.00 m - 3.50 m
Height Base Box	2.40 m
Height Top Extension Box	1.30 m
Vertical Clearance under Spindle	1.35m maximum
Weight	1120 kg - 1710 kg
Recommended Depth	up to 4.00 m
Lifting means	excavator ≈ 12 to 18t

› This box combines strength with light weight. It uses spindles from the "heavy range" and utilises coupling extension pipes to give adjustable widths.

› The narrow thickness of the panels (60mm) maximises the working area and thus limits the support of the trench.

KS 60 **STANDARD BOX**

Conformity
DIN 4124
DIN EN 13331



H	Panel height
L	Panel length
h_c	Vertical clearance under spindle
L_c	Clearance between spindles
b_c	Effective width
b	Overall width
t_{pl}	Panel thickness

KS 60 **STANDARD BOX**

Base Panel LxH	Box Weight	Vertical clearance under spindle h_c	Clearance between spindles L_c	Panel thickness t_{pl}	Maximum load ed
[m]	[kg]	[m]	[m]	[mm]	[kN/m²]
KS 2.00x2.40	1120	1.35	1.60	60	66.2
KS 2.5x2.40	1240	1.35	2.10		49.8
KS 3.0x2.40	1365	1.35	2.60		33.0
KS 3.50x2.40	1720	1.35	3.03		32.9
Top Extension Panel	**Box Weight**	**Vertical clearance under spindle h_c**	**Clearance between spindles L_c**	**Panel thickness t_{pl}**	**Maximum load ed**
KSA 2.00x1.30	610	-	1.60	60	66.2
KSA 2.50x1.30	680	-	2.10		49.8
KSA 3.00x1.30	750	-	2.60		33.0
KSA 3.50x1.30	960	-	3.03		32.9

For any other dimensions, please consult us.

Tensile forces at the points of extraction, connection and towing (in the vertical direction) :

- Lifting eyes at the panel head Rd=229kN
- Bottom eyes of the panel Rd=23kN

Pipe Extension lengths	Effective Width b_c	Overall Width b	Weight
[mm]	[m]	[m]	[kg]
0	0.99-1.33	1.11-1.45	71.0
300	1.29-1.63	1.41-1.75	+ 15.5
500	1.49-1.83	1.61-1.95	+ 20.0
800	1.79-2.13	1.91-2.25	+ 26.7
1000	1.99-2.33	2.11-2.45	+ 31.1

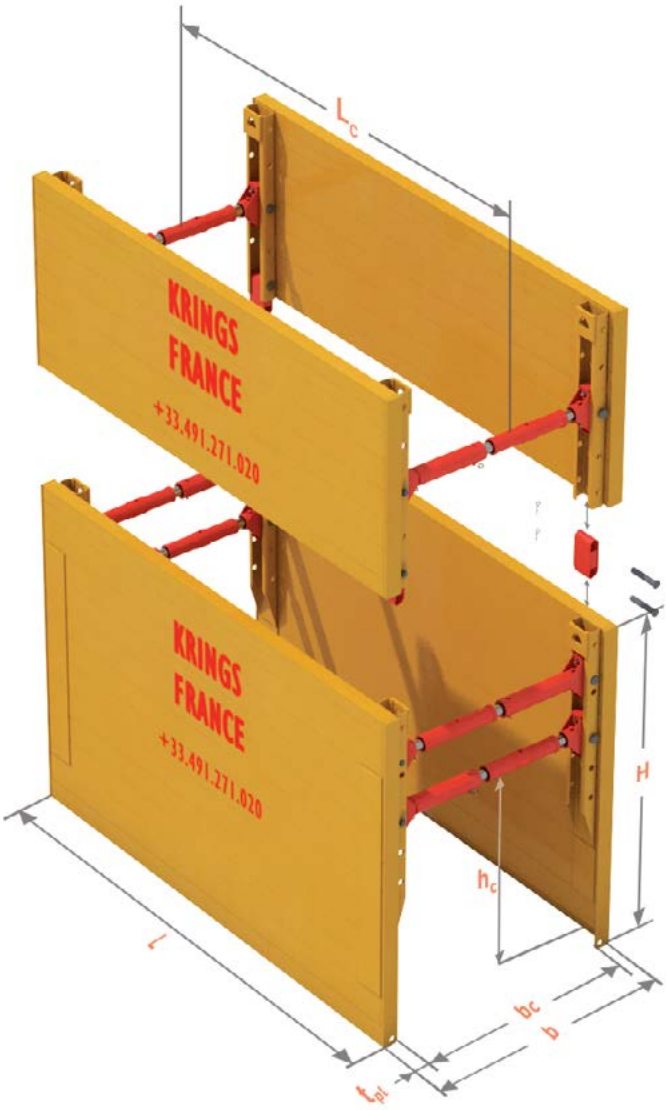
KS 100 **STANDARD BOX**

Unit Lenght	2.00 m - 5.00 m
Height Base Box	2.40 - 2.90 m
Height Top Extension Box	1.30 m
Vertical Clearance under Spindle	1.55 – 1.85 m maximum
Weight	1456 kg - 2780 kg
Recommended Depth	up to 5.00m
Lifting means	excavator ≈ 15 to 20t

- Universally accepted as the most popular trench box.
- Its strength and ease of use make it suitable for most types of trenches.
- It's new design permits a vertical clearance under spindle of 1.55m, and even 1.85m with 2.90m height boxes (please consult us).

KS 100 **STANDARD BOX**

Conformity
DIN 4124
DIN EN 13331



H	Panel height
L	Panel length
h_c	Vertical clearance under spindle
L_c	Clearance between spindles
b_c	Effective width
b	Overall width
t_{pl}	Panel thickness

CAISSON STANDARD KS 100

Base Panel LxH	Box Weight	Vertical clearance under spindle h_c	Clearance between spindles L_c	Panel thickness t_{pl}	Maximum load ed
[m]	[kg]	[m]	[m]	[mm]	[kN/m²]
KS 2.00x2.40	1460	1.54	1.61	100	97.5
KS 2.50x2.40	1650	1.54	2.11		78.0
KS 3.00x2.40	1850	1.54	2.61		65.0
KS 3.50x2.40	2050	1.54	3.11		55.7
KS 3.75x2.40	2150	1.54	3.36		51.3
KS 3.75x2.90	**2630**	**1.87**	**3.36**		**45.0**
KS 4.00x2.40	2240	1.54	3.61		44.6
KS 4.50x2.40	2570	1.54	4.11	120	42.9
KS 5.00x2.40	2780	1.54	4.61		34.3

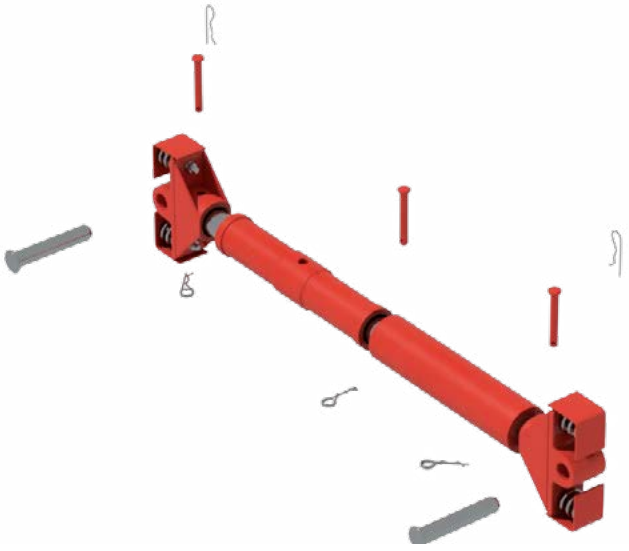
Top Extension Panel	Box Weight	Vertical clearance under spindle h_c	Clearance between spindles L_c	Panel thickness t_{pl}	Maximum load ed
KSA 2.00x1.30	840	-	1.61	100	97.5
KSA 2.50x1.30	970	-	2.11		78.0
KSA 3.00x1.30	1090	-	2.61		65.0
KSA 3.50x1.30	1210	-	3.11		55.7
KSA 3.75x1.30	1270	-	3.36		51.3
KSA 4.00x1.30	1340	-	3.61		44.6
KSA 4.50x1.30	1690	-	4.11	120	42.9
KSA 5.00x1.30	1830	-	4.61		34.3

For any other dimensions, please consult us.

Tensile forces at the points of extraction, connection and towing (in the vertical direction) :

- Lifting eyes at the panel head Rd=229kN
- Bottom eyes of the panel Rd=47kN

Pipe Extension lengths	Effective Width b_c	Overall Width b	Weight
[mm]	[m]	[m]	[kg]
0	0.99-1.33	1.20-1.54	71.0
300	1.29-1.63	1.50-1.84	+ 15.5
500	1.49-1.83	1.70-2.04	+ 20.0
800	1.79-2.13	2.00-2.34	+ 26.7
1000	1.99-2.33	2.20-2.54	+ 31.1



KSECK **MANHOLE TRENCH BOX**

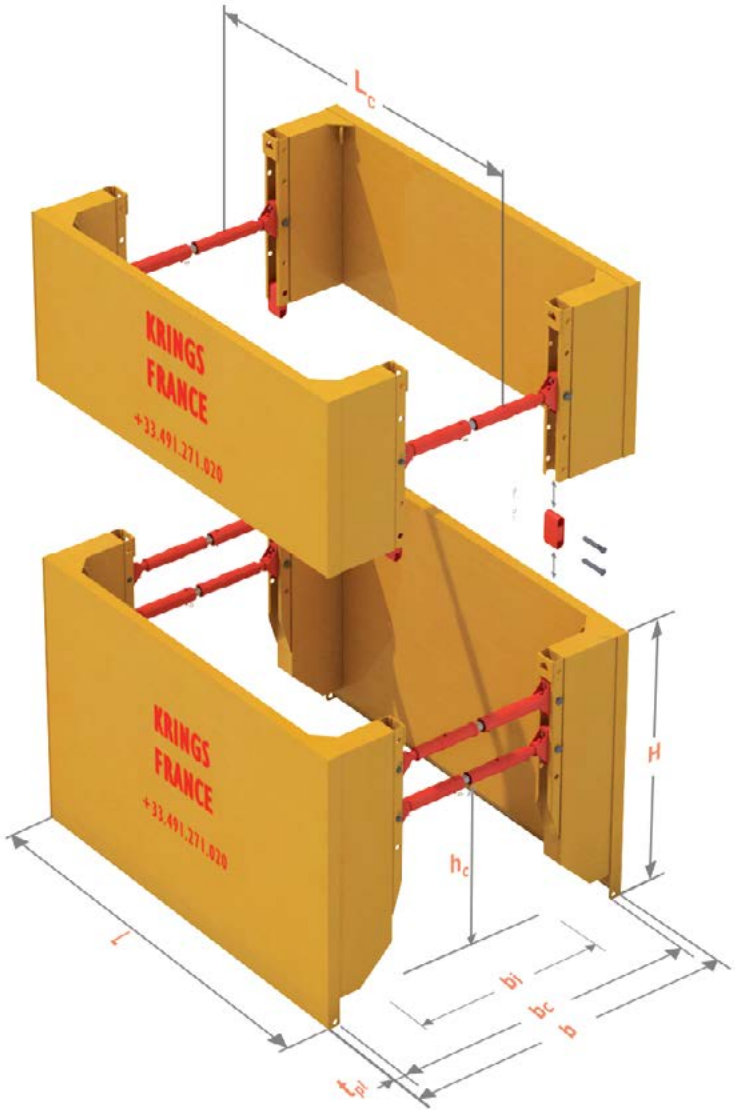
Unit Lenght	2.00 m - 3.50 m
Height Base Box	2.40 m
Height Top Extension Box	1.40 m
Vertical Clearance under Spindle	Max. 1.54 m
Weight	1730 kg - 2330 kg
Recommended Depth	up to 4.00m
Lifting means	excavator ≈ 12 to 18t

› Specially designed to protect particular areas such as manholes, this trench box is provided with "L" shape returns on which we set the spindles.

› The installation of the pre-cast elements is easily made in its center without sacrificing the current open trench width.

KSECK **MANHOLE TRENCH BOX**

Conformity
DIN 4124
DIN EN 13331



H	Panel height
L	Panel length
h_c	Vertical clearance under spindle
L_c	Clearance between spindles
b_c	Effective width
b	Overall width
t_{pl}	Panel thickness

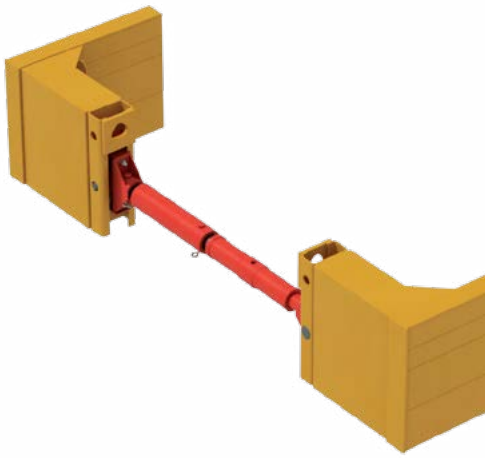
KSECK 60 **MANHOLE TRENCH BOX**

Base Panel LxH	Panel Height	Box Weight	Vertical clearance under spindle h_c	Clearance between spindles L_c	Panel thickness t_{pl}	Maximum load ed
[m]	Base panel [m] / Top panel [m]	Base panel [kg] / Top panel [kg]	[m]	[m]	[mm]	[kN/m²]
KSECK 2.00	2,4 / 1,4	1344 / 827	1.35	1.58	60	66.2
KSECK 2.50	2,4 / 1,4	1464 / 897	1.35	2.08		49.8
KSECK 3.00	2,4 / 1,4	1584 / 967	1.35	2.58		33.0
KSECK 3.50	2,4 / 1,4	1934 / 1167	1.35	3.08		32.9

For any other dimensions, please consult us.

Tensile forces at the points of extraction, connection and towing (in the vertical direction) :

- Lifting eyes at the panel head Rd=229kN
- Bottom eyes of the panel Rd=47kN



Pipe Extension lengths	Effective Width between profiles b_i	Effective Width b_c	Overall Width b	Weight
[mm]	[m]	[m]	[m]	[kg]
0	0.99-1.33	1.79 - 2.13	1.91 - 2.25	71.0
300	1.29-1.63	2.09 - 2.43	2.21 - 2.55	+ 15.5
500	1.49-1.83	2.29 - 2.63	2.41 - 2.75	+ 20.0
800	1.79-2.13	2.59 - 2.93	2.71 - 3.05	+ 26.7
1000	1.99-2.33	2.79 - 3.13	2.91 - 3.25	+ 31.1

KSECK 100 **MANHOLE TRENCH BOX**

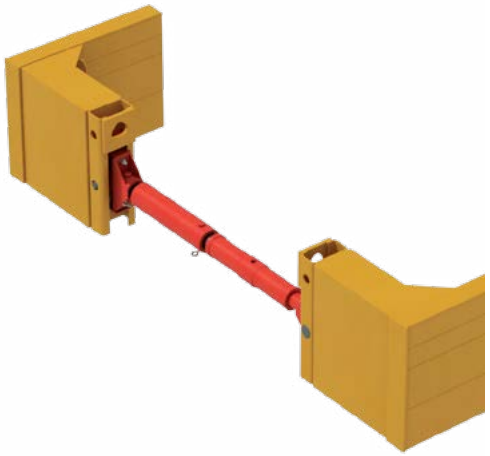
Base Panel LxH	Panel Height	Box Weight	Vertical clearance under spindle h_c	Clearance between spindles L_c	Panel thickness t_{pl}	Maximum load ed
[m]	Base panel [m] / Top panel [m]	Base panel [kg] / Top panel [kg]	[m]	[m]	[mm]	[kN/m²]
KSECK 2.00	2,4 / 1,4	1750 / 1170	1.35	1.58	100	97.5
KSECK 2.50	2,4 / 1,4	1950 / 1300	1.35	2.08		78.0
KSECK 3.00	2,4 / 1,4	2150 / 1430	1.35	2.58		65.0
KSECK 3.50	2,4 / 1,4	2340 / 1560	1.35	3.08		55.7

For any other dimensions, please consult us.

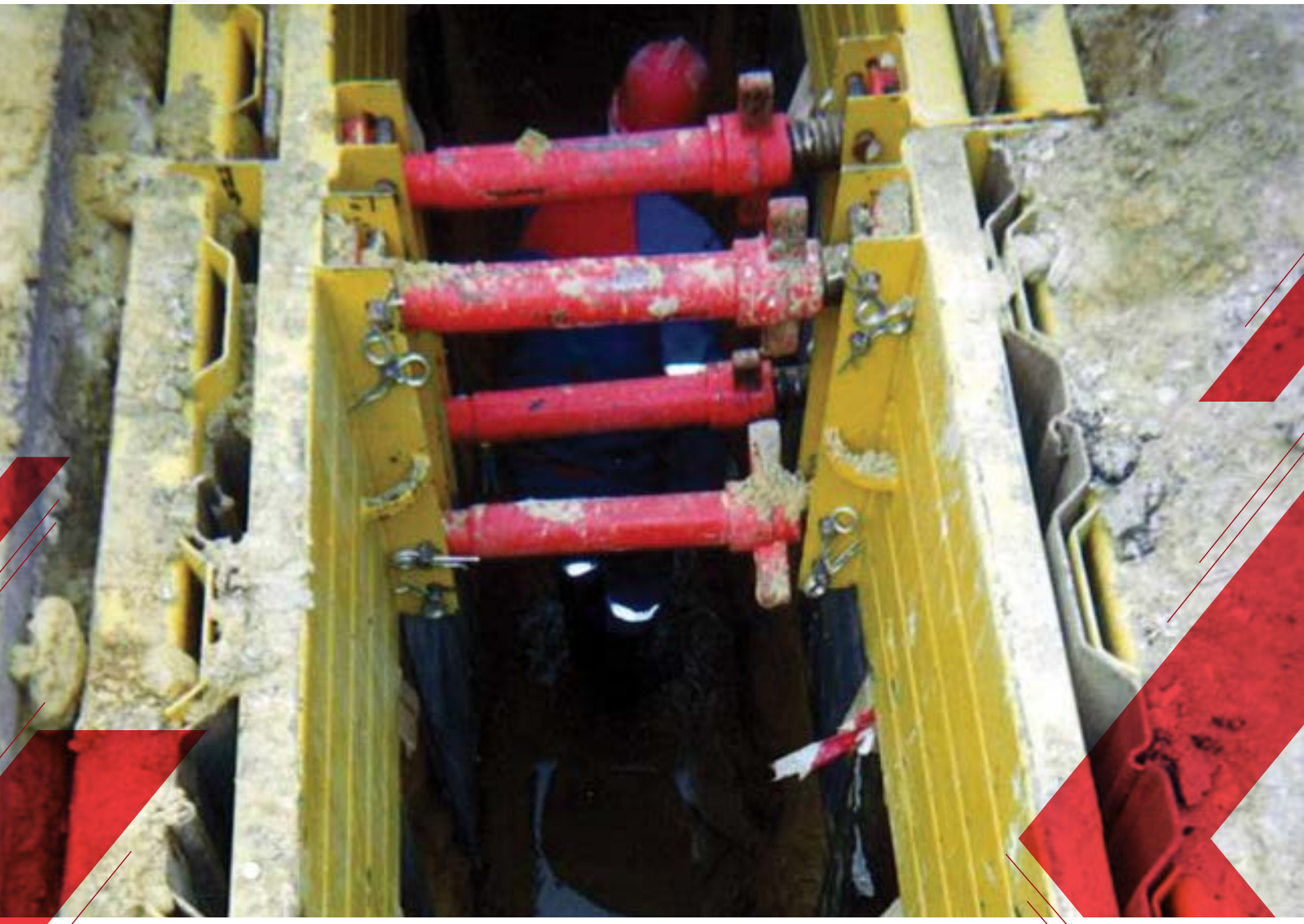
Tensile forces at the points of extraction, connection and towing (in the vertical direction) :

- Lifting eyes at the panel head Rd=229kN
- Bottom eyes of the panel Rd=47kN

Pipe Extension lengths	Effective Width between profiles b_i	Effective Width b_c	Overall Width b	Weight
[mm]	[m]	[m]	[m]	[kg]
0	0.99-1.33	1.99 - 2.33	2.20 - 2.54	71.0
300	1.29-1.63	2.29 - 2.63	2.50 - 2.84	+ 15.5
500	1.49-1.83	2.49 - 2.83	2.70 - 3.04	+ 20.0
800	1.79-2.13	2.79 - 3.13	3.00 - 3.34	+ 26.7
1000	1.99-2.33	2.99 - 3.33	3.20 - 3.54	+ 31.1



Mini KKP **SHEET PILE GUIDE BOX**



Unit Lenght	2.00 m - 2.8 m
Height Box	0.60 m
Weight	560 kg - 730 kg
Recommended Depth	up to 3.50m
Lifting means	excavator ≈ 7 to 13t

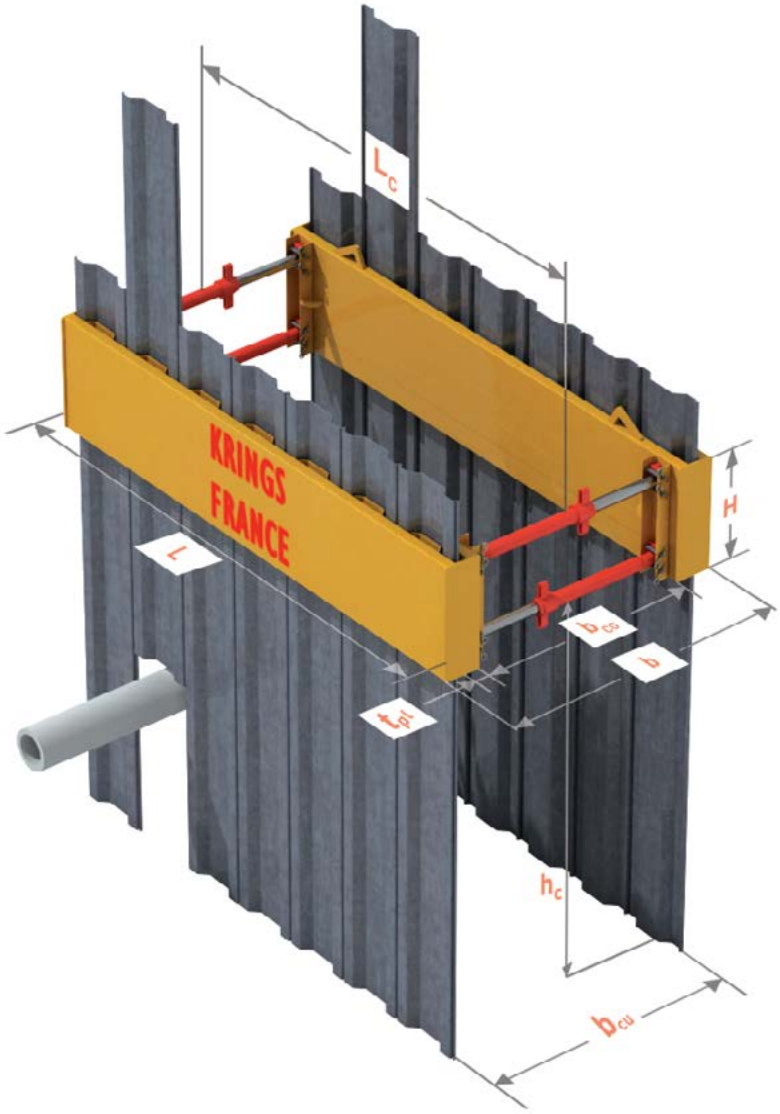
› This steel box is manufactured with an internal structure which receives, guides and maintains at his top, the KD 4-6 sheet piles. Steel profiles of 400mm or 600mm to cross the existing transverse networks without damaging them.

› Ideal mini sheet pile guiding frame for job sites in urban areas at depths of up to 3m. With a minimum of place and a maximum underground working space.

› Specially designed for use with a backhoe, the system can be logically used in conjunction with the KVL light boxes. Both use the same struts.

Mini KKP **SHEET PILE GUIDE BOX**

Conformity
DIN 4124
DIN EN 13331



H	Panel height
L	Panel length
L_C	Clearance between spindles
b_{CO}	Width between the guiding frames
b_{cu}	Width between sheet piles
b	Overall width
t_{pl}	Panel frame thickness

Mini KKP **SHEET PILE GUIDE BOX**

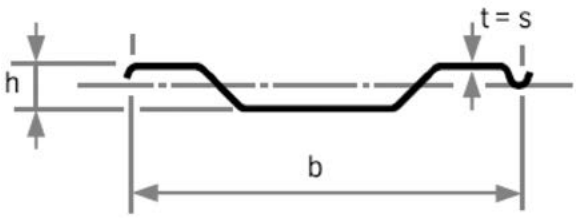
Base Panel LxH	Box Weight	Number of sheet piles	Clearance between spindles L_c	Panel thickness int. t_{pl}	Bending strain at limit state qd
[mm]	[kg]	[KD4]	[m]	[mm]	[kN/m]
KKP 2040x600	560	10	1.74	60	92.6
KKP 2440x600	650	12	2.14	60	61.8
KKP 2840x600	730	14	2.54	60	44.2

For any other dimensions, please consult us.

Tensile forces at the points of extraction, connection and towing (in the vertical direction) :

- Lifting eyes at the panel head Rd=229kN

KD 4/6



Width b	Height h	Thickness t	Section modulus W_y	Moment of inertia I_y	Bending moment Md	Single pile weight	Wall weight
[mm]	[mm]	[mm]	[cm^3/m]	[cm^4/m]	[kNm/m]	[kg/m]	[kg/m^2]
400	50	6	102	254	25.5	22.1	55.3

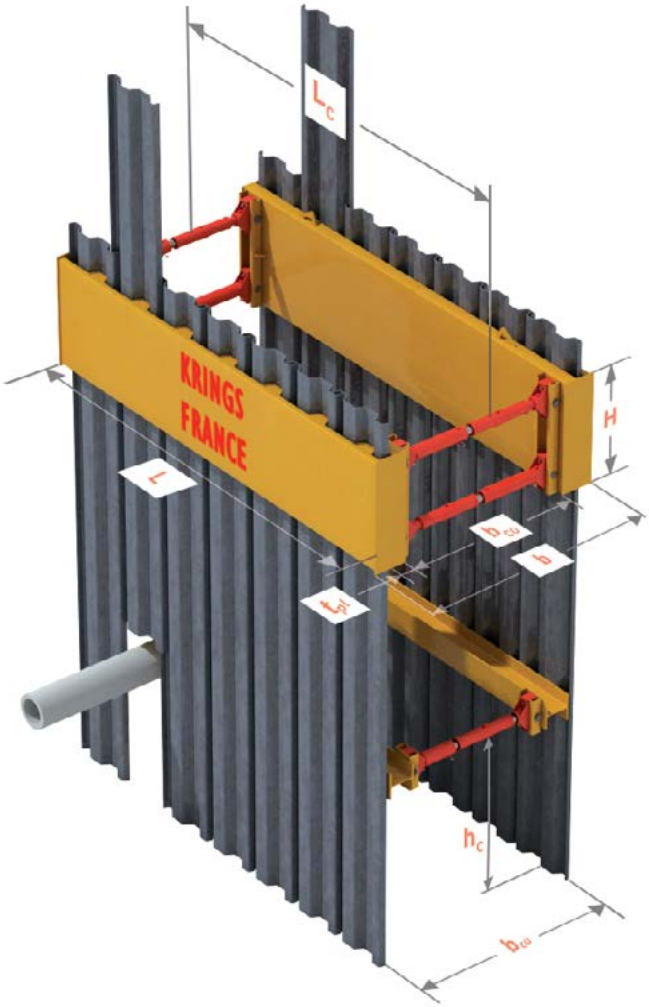
Spindle type	Width between the guiding frames b_{co}	Width between sheet piles b_{cu}	Overall width b	Weight
	[m]	[m]	[m]	[kg]
A	0.53 - 0.63	0.65 - 0.75	0.89 - 0.99	12.4
B	0.62 - 0.81	0.74 - 0.93	0.98 - 1.17	13.5
C	0.80 - 1.17	0.92 - 1.29	1.16 - 1.53	15.7
D	1.16 - 1.89	1.28 - 2.01	1.52 - 2.25	19.4
E	1.87 - 2.60	2.00 - 2,73	2.24 - 2.97	34.0

Standard KKP **SHEET PILE GUIDE BOX**

Unit Lenght	3.00 m - 4.0 m
Height Box	1.00 m
Weight	1730 kg - 2170 kg
Recommended Depth	up to 7.50m
Lifting means	excavator ≈ 15 to 18t

- Ideal for urban job sites. Economical and safe.
- The KKP guiding structure allows the sheet piles to be guided throughout their descent using the dig and push method ("lowering and cut" method).
- Where there are underground existing services, the KKP sheet pile guide is dual fitted for use with the KS100 spindles and slide rail systems.

Standard KKP **SHEET PILE GUIDE BOX**



Conformity
DIN 4124
DIN EN 13331

H	Panel height
L	Panel length
L_c	Clearance between spindles
b_{co}	Width between the guiding frames
b_{Cu}	Width between sheet piles
b	Overall width
t_{pl}	Panel frame thickness

Standard KKP **SHEET PILE GUIDE BOX**

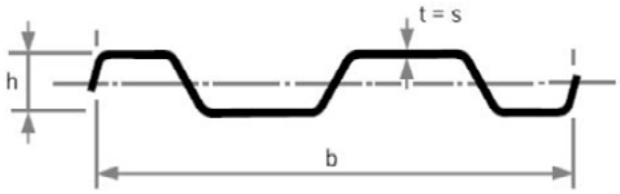
Base Panel LxH	Box Weight	Number of sheet piles	Clearance between spindles L_c	Panel thickness int. t_{pl}	Bending strain at limit state qd
[m]	[kg]	[KD6]	[m]	[mm]	[kN/m]
KKP 2.94x1.00	1730	10	2.51	120	154.9
KKP 3.52x1.00	1970	12	3.09	120	107.1
KKP 4.02x1.00	2170	14	3.59	120	81.6

These panels can be interlock with the single or double sliding system.
For any other dimensions, please consult us.

Tensile forces at the points of extraction, connection and towing (in the vertical direction) :

- Lifting eyes at the panel head Rd=229kN

KD 6/8



Width b	Height h	Thickness t	Section modulus W_y	Moment of inertia I_y	Bending moment Md	Single pile weight	Wall weight
[mm]	[mm]	[mm]	[cm^3/m]	[cm^4/m]	[kNm/m]	[kg/m]	[kg/m^2]
600	80	8	242	969	60.5	50.0	83.3

Pipe Extension lengths	Width between the guiding frames b_{co}	Width between sheet piles b_{cu}	Overall width b	Weight
[mm]	[m]	[m]	[m]	[kg]
0	0.99-1.29	1.23-1.53	1.54-1.84	71.0
300	1.29-1.59	1.53-1.83	1.84-2.14	+ 15.5
500	1.49-1.79	1.73-2.03	2.04-2.34	+ 20.0
800	1.79-2.09	2.03-2.33	2.34-2.64	+ 26.7
1000	1.99-2.29	2.23-2.53	2.54-2.84	+ 31.1

PARALLEL SLIDING SYSTEM
EGPV SINGLE SLIDING SYSTEM

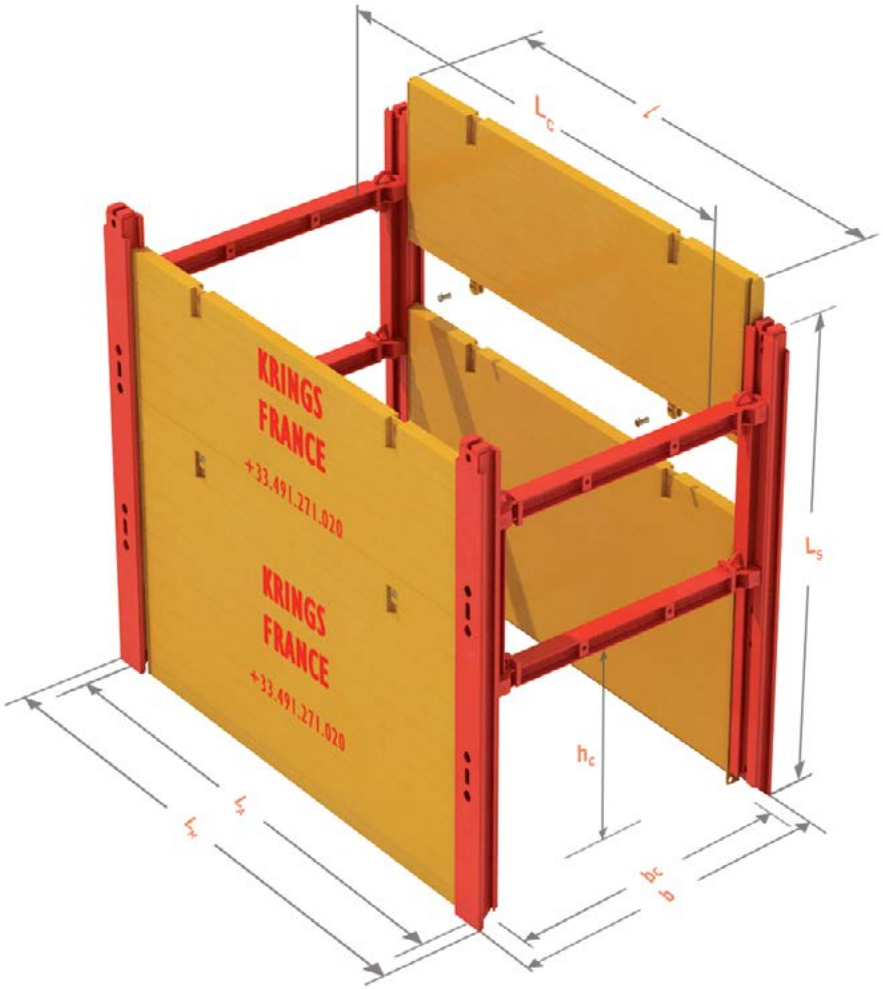
Recommended Depth	Max. 4.0 m
Length of Rail	4.0 m
Weight of Rail	495 kg
Bending Moment	338 kN.m
Strech Length	2.0 m - 6.25 m
Lifting means	excavator ≈ 15 to 25t

› The single EGPV sliding system allows shoring down up to 4.0m depth. An ideal alternative to the trench where ground conditions are more difficult.

› However and based on soil condition, the monoblok boxes are inappropriate. This is the reason why we have developed the light and single slide system. During the excavation and the " dig and push " processes, the panels are guided through the single slide rails.

PARALLEL SLIDING SYSTEM
EGPV SINGLE SLIDING SYSTEM

Conformity
DIN 4124
DIN EN 13331



H	Panel height
L	Panel length
L_C	Clearance between sliding frames
L_s	Rail length
L_M	Overall length
b_C	Effective width between panels
b	Overall width
h_C	Vertical Clearance under the sliding frame

PARALLEL SLIDING SYSTEM
EGPV SINGLE SLIDING SYSTEM

Base Panel LxH	Panel Height	Panel Weight	Overall length L_m	Clearance between sliding frames L_c	Panel thickness t_{pl}	Maximum load ed
[m]	Base panel [m] / Top panel [m]	Base panel [kg] / Top panel [kg]	[m]	[m]	[mm]	[kN/m²]
KR 2.00	2,4 / 1,4	510 / 335	2.56	2.10	100	171.6
KR 2.50	2,4 / 1,4	605 / 400	3.06	2.60		110.4
KR 3.00	2,4 / 1,4	690 / 450	3.56	3.10		81.1
KR 3.50	2,4 / 1,4	805 / 525	4.06	3.60		56.6
KR 4.00	2,4 / 1,4	1170 / 745	4.56	4.10	120	71.0
KR 4.50	2,4 / 1,4	1305 / 830	5.06	4.60		56.2
KR 5.00	2,4 / 1,4	1635 / 1020	5.56	5.10		72.1
KR 6.25	2,4 / 1,4	3510 / 2315	6.78	6.32		66.0

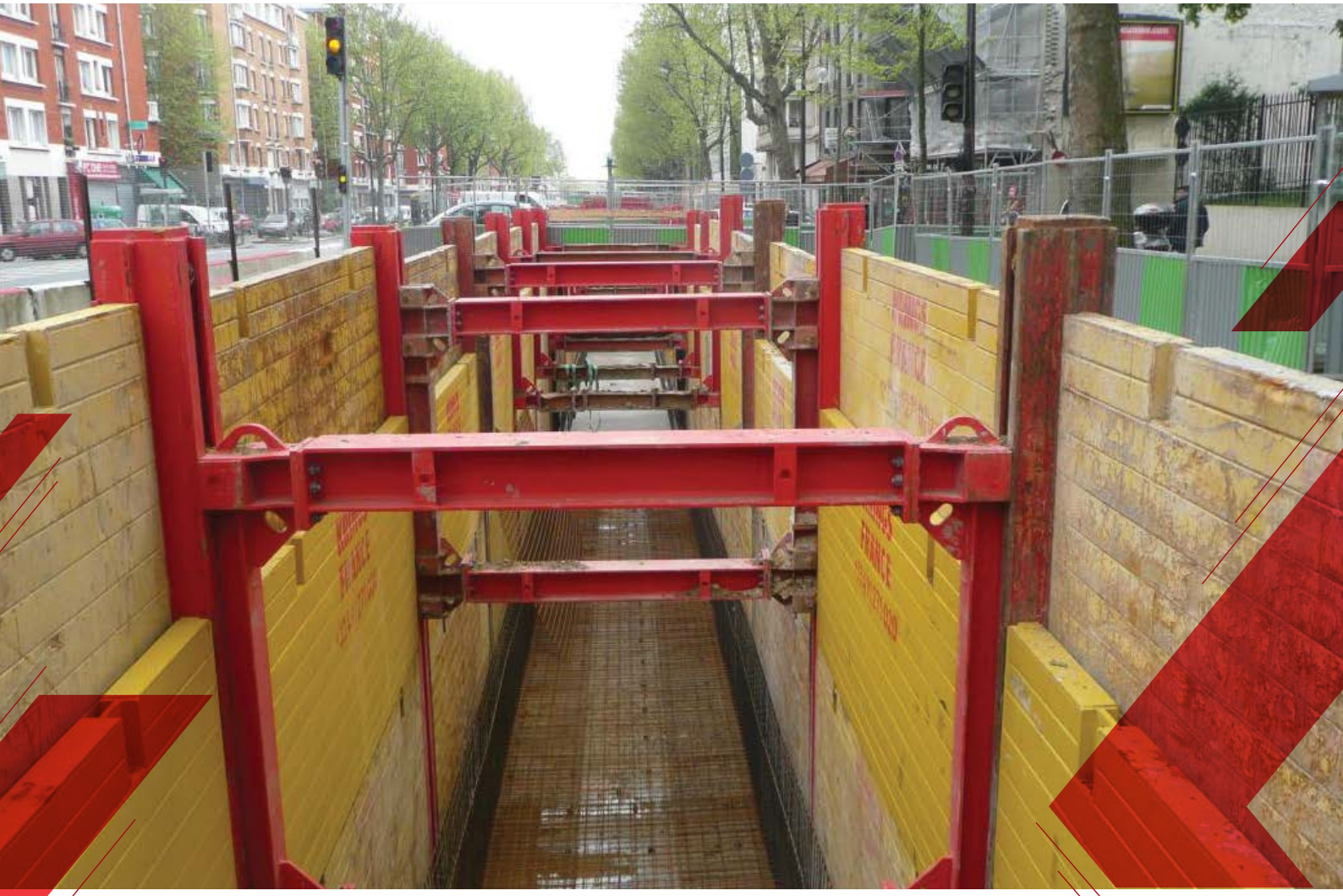
For any other dimensions, please consult us.

Tensile forces at the points of extraction, connection and towing (in the vertical direction) :

- Lifting ring at the rail head Rd=229kN
- Lifting eyes at the panel head Rd=229kN
- Bottom eyes of the panel Rd=47kN

Minimum effective width b_c	Minimum overall witdh b	Frame weight (2 rails without spacers)
[mm]	[mm]	[kg]
482	804	1186

PARALLEL SLIDING SYSTEM
DGPV DOUBLE SLIDE SYSTEM



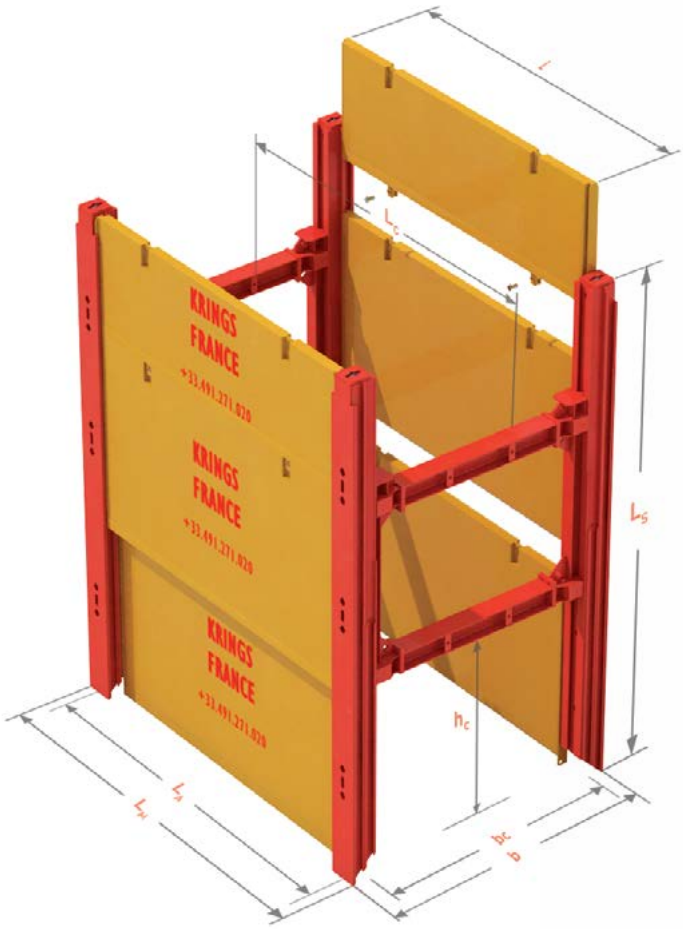
Recommended Depth	Max. 8.0 m
Length of Rail	4.8 / 6.0 / 7.5 m
Weight of Rail	1075 / 1355 / 1780 kg
Bending Moment	1020 / 1020 / 1106 kN.m
Strech Length	2.0 m - 6.25 m
Lifting means	excavator ≈ 25 to 45t

› The excellence and most commonly use Double Slide System on job sites. The panels are guided and slide down through the robust double slide rails. The double slide Rails stand parallel, while pushed down with the bucket; and the sliding HEB frame or "buggy car" assures a constant width.

› The individual action exercised on every element separately, facilitates the removal and extraction, so reducing the strengths of friction of the retained ground.

PARALLEL SLIDING SYSTEM
DGPV DOUBLE SLIDE SYSTEM

Conformity
DIN 4124
DIN EN 13331



H	Panel height
L	Panel length
L_C	Clearance space between sliding frames
L_s	Rail length
L_m	Overall length
b_C	Effective width between panels
b	Overall width
h_C	Vertical Clearance under sliding frame

PARALLEL SLIDING SYSTEM
DGPV DOUBLE SLIDE SYSTEM

Base Panel LxH	Panel Height	Panel Weight	Overall length L_m	Clearance between sliding frames L_c	Panel thickness t_{pl}	Maximum load ed
[m]	Base panel [m] / Top panel [m]	Base panel [kg] / Top panel [kg]	[m]	[m]	[mm]	[kN/m²]
KR 2.00	2,4 / 1,4	510 / 335	2.56	2.10	100	171.6
KR 2.50	2,4 / 1,4	605 / 395	3.06	2.60		110.4
KR 3.00	2,4 / 1,4	690 / 450	3.56	3.10		81.1
KR 3.50	2,4 / 1,4	805 / 525	4.06	3.60		56.6
KR 4.00	2,4 / 1,4	1165 / 745	4.56	4.10	120	71.0
KR 4.50	2,4 / 1,4	1305 / 830	5.06	4.60		56.2
KR 5.00	2,4 / 1,4	1630 / 1020	5.56	5.10		73.1
KR 6.25	2,4 / 1,4	3510 / 2315	6.78	6.33		66.0

For any other dimensions, please consult us.

Tensile forces at the points of extraction, connection and towing (in the vertical direction) :

- Lifting ring at the rail head Rd=229kN
- Lifting eyes at the panel head Rd=229kN
- Bottom eyes of the panel Rd=47kN

PARALLEL SLIDING SYSTEM
DGPV DOUBLE SLIDE SYSTEM

Type of rail	Length	Thickness of rail	Bending moment	Weight
	[m]	[mm]	[kNm]	[kg]
DGPV	4.80	320	1020	1075
DGPV	6.00	320	1020	1355
DGPV	7.50	325	1106	1780

Type of Sliding Frame	Length	Spacer dimension	Minimum width between panels	Weight
	[m]	[mm]	[m]	[kg]
DGLW	2.00	240*305	0.73	308
DGLW	2.80	240*305	0.73	343
DGU-LW	1.45	300*580	0.92	488

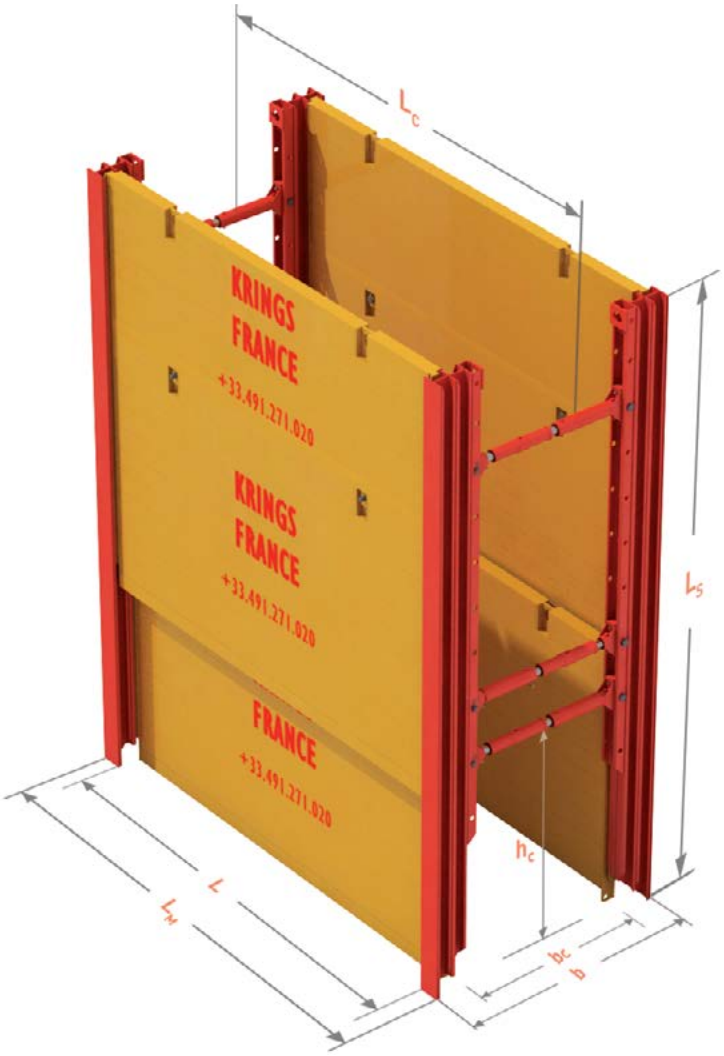
SPINDLE SLIDING SYSTEM
DGFP DOUBLE SLIDE SYSTEM

Recommended Depth	Max. 7.5 m
Length of Rail	4.5 / 5.5 m
Weight of Rail	397 / 489 kg
Bending Moment	360 kN.m
Strech Length	2.0 m - 6.25 m
Lifting means	excavator ≈ 25 – 30t

› This DGFP double slide system is the oldest system but still very much in use for large areas. Simple and quick to assemble, it combines versatility with multi-functionality.

› It's the lightest of all the double slide systems. The variable widths are adjusted with standard spindles (the same than for the trench boxes). Spring spindles holder or jacks are fixed to the rails.

SPINDLE SLIDING SYSTEM
DGFP DOUBLE SLIDE SYSTEM



Conformity
DIN 4124
DIN EN 13331

H	Panel height
L	Panel length
L_c	Clearance between spacers
L_s	Rail lenght
L_m	Overall length
b_c	Effective width between panels
b	Overall width
h_c	Vertical Clearance under the sliding frame

SPINDLE SLIDING SYSTEM
DGFP DOUBLE SLIDE SYSTEM

Base Panel LxH	Panel Height	Panel Weight	Overall length L_m	Clearance between sliding frames L_c	Panel thickness t_{pl}	Maximum load ed
[m]	Base panel [m] / Top panel [m]	Base panel [kg] / Top panel [kg]	[m]	[m]	[mm]	[kN/m²]
KR 2.00	2,4 / 1,4	510 / 335	2.35	2.03	100	171.6
KR 2.50	2,4 / 1,4	605 / 395	2.85	2.53		110.4
KR 3.00	2,4 / 1,4	690 / 450	3.27	2.95		81.1
KR 3.50	2,4 / 1,4	805 / 525	3.85	3.53		56.6
KR 4.00	2,4 / 1,4	1165 / 745	4.35	4.03	120	71.0
KR 4.50	2,4 / 1,4	1305 / 830	4.85	4.53		56.2
KR 5.00	2,4 / 1,4	1630 / 1020	5.35	5.03		73.1
KR 6.25	2,4 / 1,4	3510 / 2315	6.57	6.26		66.0

For any other dimensions, please consult us.

Tensile forces at the points of extraction, connection and towing (in the vertical direction) :

- Lifting ring at the rail head Rd=229kN
- Lifting eyes at the panel head Rd=229kN
- Bottom eyes of the panel Rd=47kN

Minimum effective width b_c	Minimum overall witdh b	Frame weight (2 rails without spindle-extensions)
[mm]	[mm]	[kg]
871	1671	1007/1191

SLIDING SYSTEM
CORNER SLIDE RAILS

Recommended Depth	Max. 8.0 m
Length of Rail	3.5 / 5.5 / 7.5 m
Weight of Rail	192 / 840 / 1155 kg
Bending Moment	113 / 363 kN.m
Strech Length	2.0 m - 6.25 m
Lifting means	Excavator ≈ 25 – 45t

› This system is used where there is a requirement for shoring four sides of an excavation and to reduce its overall size.
› Various sliding corner rails and panels, guarantee multiple dimensional combinations while assuring comfort and safety.
› Ideal for the installation of tanks, construction of pits, wells and pumping stations.

Note: KKP sheet pile frames can be substituted for solid panels on two sides where entry & exit is required or where services cross the excavation.

SLIDING SYSTEM
CORNER SLIDE RAILS

Conformity
DIN 4124
DIN EN 13331

L	Panel height
L_s	Corner Rail length
L_m	Overall length
b_c	Effective width between panels
b	Overall width

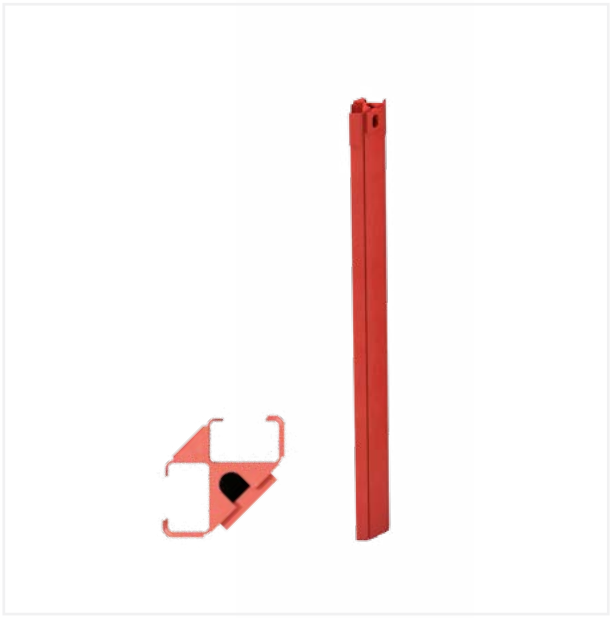
SLIDING SYSTEM
SINGLE CORNER SLIDE RAILS

Panel length	Panel Height	Panel Weight	Panel thickness	Maximum load ed	Working width b_c	Overall length-panel	Overall length-corner rail
[m]	Base panel [m] / Top panel [m]	Base panel [kg] / Top panel [kg]	[mm]	[kN/m²]	[m]	[m]	[m]
KR 2.00	2,4 / 1,4	510 / 335	100	171.6	2,10	2,30	2,41
KR 2.50	2,4 / 1,4	605 / 395		110.4	2,60	2,80	2,91
KR 3.00	2,4 / 1,4	690 / 450		81.1	3,02	3,22	3,33
KR 3.50	2,4 / 1,4	805 / 525		56.6	3,60	3,80	3,91
KR 4.00	2,4 / 1,4	1165 / 745	120	71.0	4,06	4,30	4,41
KR 4.50	2,4 / 1,4	1305 / 830		56.2	4,56	4,80	4,91
KR 5.00	2,4 / 1,4	1630 / 1020		73.1	5,06	5,30	5,41
KR 6.25	2,4 / 1,4	3510 / 2315		66.0	6,29	6,53	6,64

For any other dimensions, please consult us.

EGECK 3000/3500/4000

Bending moment	Overall width mini b	Corner rail weight
[kNm]	[mm]	[kg]
113	218	164/192/218



SLIDING SYSTEM
DOUBLE CORNER SLIDE RAIL

		CORNER RAILS SD			CORNER RAILS HD		
Panel length	Panel thickness	working width b_c	Overall length-panel	Overall length-corner rail	working width b_c	Overall length-panel	Overall length-corner rail
[m]	[mm]	[m]	[m]	[m]	[m]	[m]	[m]
KR 2.00	100	2,10	2,60	2,71	2,15	2,65	2,77
KR 2.50		2,60	3,10	3,21	2,65	3,15	3,27
KR 3.00		3,02	3,52	3,63	3,07	3,57	3,69
KR 3.50		3,60	4,10	4,21	3,65	4,15	4,27
KR 4.00	120	4,06	4,60	4,71	4,11	4,65	4,77
KR 4.50		4,56	5,10	5,21	4,61	5,15	5,27
KR 5.00		5,06	5,60	5,71	5,11	5,65	5,77
KR 6.25		6,29	6,83	6,94	6,33	6,87	7,00

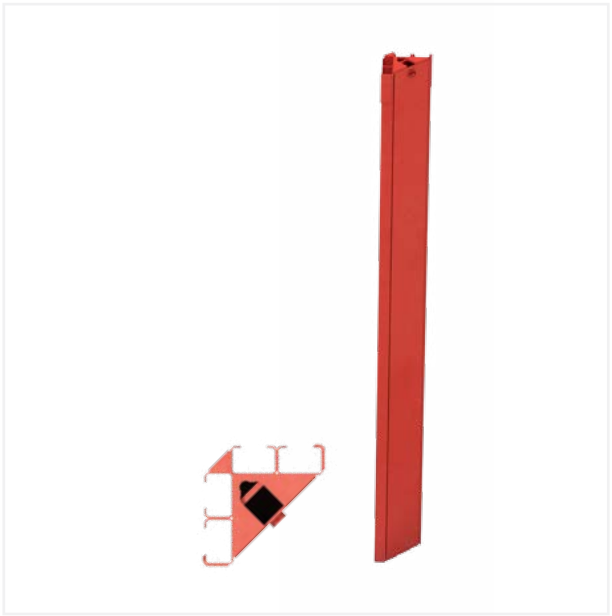
For other dimensions, please consult us.

DGECK 4500/5000/5500

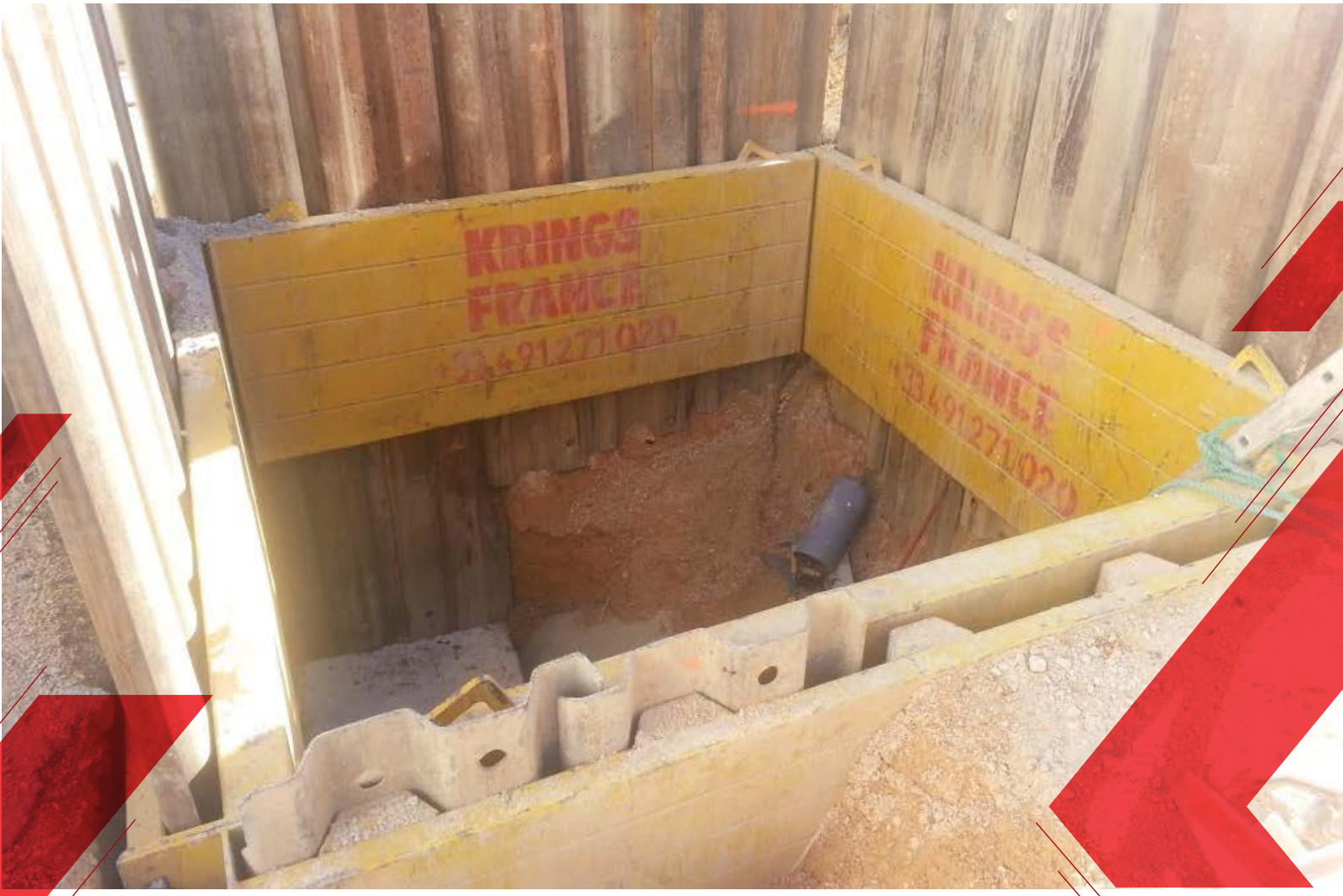
Bending moment	Overall width mini b	Corner rail weight
[kNm]	[mm]	[kg]
363	305	714/780/840

SD = Standard

HD = Heavy Duty, anti rotation device



PIT BOX
SHEET PILES

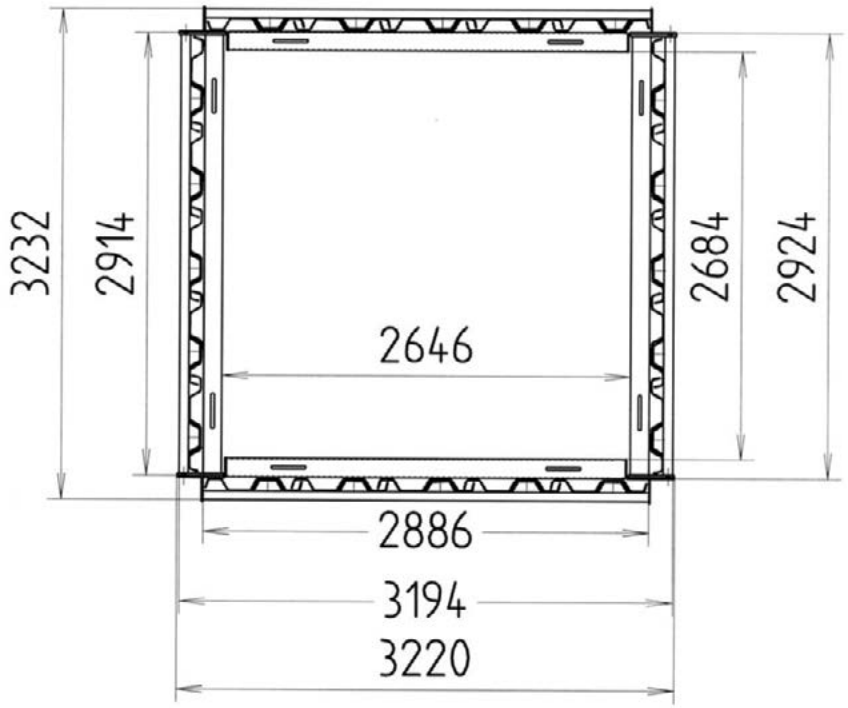


Recommended depth	Max. 4.5 m
Panel length	3.20 m
Effective width between panels	2.65 m
Complete box weight	2650 kg
Type of sheet pile	KD6-8
N° of sheet piles per pit	20 units

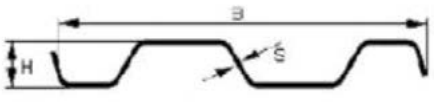
› This sheet pile guide box is ideal for urban works and specially designed for congested working areas.

› The KD6-8 sheet piles are guided during the excavation and the "dig and push" processes; therefore reducing ground decompression.

PIT BOX
SHEET PILES



Sheet pile type	KD6-8
Width	600 mm
Height	80 mm
Thickness	8 mm
Weight	50 kg/m
Section Modulus	242 cm3/m



KRINGS INTERNATIONAL FRANCE

TRENCH SHORING SYSTEMS SALES,
RENTALS AND BUY BACK

PHONE / +33-4.91.27.10.20

FAX / +33-4.91.43.10.92

EMAIL / info@kirngs.com

HEADQUARTERS / 55 route d'allauch - 13011 Marseille

WWW.KRINGS.COM