

# SIMPEX® WALL FORM



## SIMPEX İLE HIZLI VE ÇOK YÖNLÜ KALIPLAMA KOLAYLIĞI

TMS SIMPEX Perde ve Kolon Kalıplarının farklı yükseklik ve kesitlere kolay adapte edilebilir olması, vinç ile kullanılan sistemler arasında ayrıcalıklı bir konuma sahip olmasını sağlamıştır. Sistemi oluşturan düşey KAUFMANN HT20plus Ahşap Kirişlerin ve YK çelik kuşaklarının ara mesafeleri değiştirilerek yüksek beton basınçlarına ve beton döküm hızlarına göre sistemi dizayn etmek mümkündür. Villalar, Konut Projeleri, Yüksek Yapılar, Endüstriyel İnşaatlar, Yol Projeleri, Arıtma Tesisleri, Enerji Projeleri gibi birbirinden çok farklı karakterdeki yapı ve inşaatlar SIMPEX sisteminin esnekliği sayesinde kolayca kalıplanabilir. Sistem TMS TRK tırmanma iskeleleri ve saft platformları ile tırmandırılabilirdiği gibi TMS CLIMBEX® hidrolik tırmanır sisteme de adapte edilebilmektedir. SIMPEX sisteminin getireceği kolaylıklar;

- Az parçayla çok iş,
- Ön montaj, kurum ve şakule alma kolaylığı,
- Farklı panellerin bir araya getirilerek daha büyük panoların deplase edilebilmesi,
- Kamalarla sabitlenen panoların arasından beton sızmasının önlenir olması,
- Ahşap kiriş, çelik kuşak ve saplama mesafeleri değiştirilerek istenen dayanımların elde edilebilmesi.
- Eğri yüzlü perdelerin bile sistemle kalıplanabilir olması.



## SIMPLE AND FLEXIBLE FORMING APPLICATIONS WITH SIMPEX

TMS SIMPEX is a perfect choice for walls and columns at any height and even with complicated floor plans. Residential Buildings from Condominiums to High Rises, Industrial Construction either Waste Water Treatment or Power Plants can easily be formed by SIMPEX. System can climb with TMS climbing brackets and shaft platforms.

SIMPEX is also applicable to CLIMBEX® hydraulic climbing system. What makes SIMPEX so popular is its design features;

- Very few items to worry about,
- Ease of erection, adaptability and alignment,
- Variety in panel sizes, possibility in gang forming,
- Flexibility in tie and timber beam spacing allows for higher design loads,
- Even slight curvatures are possible with it.



USTAY BAKU Project



BAB Trablus AVM Project LIBIA





Cheliff Dam Project ALGERIA



Fi Tower Istanbul TURKEY



Blue City Project OMAN

Simpex delivers the smooth surface finish of plywood, together with the strengths of HT 20 timber beams and steel walers





# SIMPEX® WALL FORM



SIMPEX Formwork at an industrial job-site in KAZAKHSTAN.



A SIMPEX Shaft Formwork at a shopping mall Project in Moscow



Access ladders and working platforms with SIMPEX.





# SIMPEX® WALL FORM



Concrete weight blocks for anchoring the push-pull props.



TRK 160 Climbing System with lower lever suspended partially mounted

Slight curvatures with SIMPEX at Cheliff Dam





# SIMPEX® WALL FORM

Pre-assembled panels at TMS Workshop.



Standard panels can be easily adapted for almost every dimension with variable plywood infills and extended waler connectors.



Climbing scaffold head



The strong wedge design provides necessary tension through the slotted waler connectors for leak-proof joints, while simultaneously aligning the panels



Corner-shoe detail for angular corner tensioning

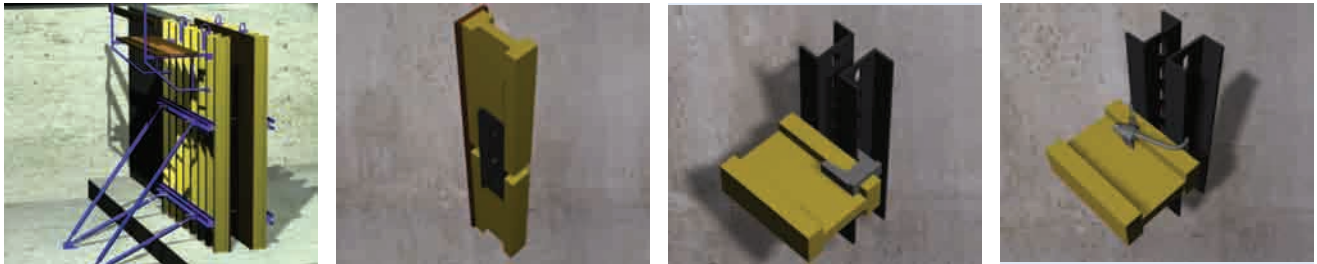


HT 20 End Clamp application provides additional rigidity at outer HT 20's on panels.

## Standart Panel Connection Procedure

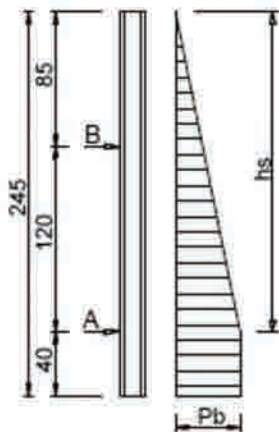
- i- Place the waler connector centrally by the use of a wedge.
- ii- On one side- preferably on the heavier panel – place the wedge to the slot nearest to the joint.
- iii- Put another wedge on the same waler to the farthest possible slot and hammer both wedges down while the centering wedge remains in place.
- iv- After securing the wedges at one side, remove the centering wedge and place it to the first slot on the other waler. This wedge should be hammered down for tight panel joints.
- v- The final step is hammering down the four the wedge, again at the farthest possible slot for providing the locking action at the panel joints.



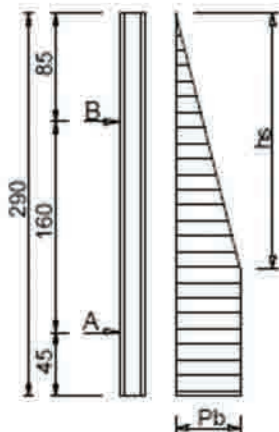


Panels can be stacked on top of each other with the easy to use HT 20 Extension splice Plates.

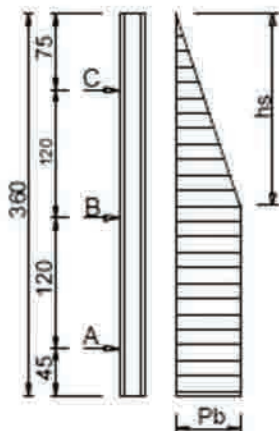
## HT 20 Plus Girder



Formwork height	2.50 m				
Concrete pressure (kN/m <sup>2</sup> )	30	40	50	60	70
Girder spacing (cm)	63	48	42	41	
Max. span deflection (mm)	0.43	0.43	0.35	0.29	
Max. cantilever deflection (mm)	0.15	0	0	0.06	
Wailer load B (kN/m)	28	29	29	28	
Wailer load A (kN/m)	29	39	46	50	



Formwork height	3.00 m				
Concrete pressure (kN/m <sup>2</sup> )	30	40	50	60	70
Girder spacing (cm)	47	35	29	26	26
Max. span deflection (mm)	1.54	1.56	1.45	1.28	1.17
Max. cantilever deflection (mm)	0	0	0	0	0
Wailer load B (kN/m)	35	38	40	39	39
Wailer load A (kN/m)	37	50	60	69	73

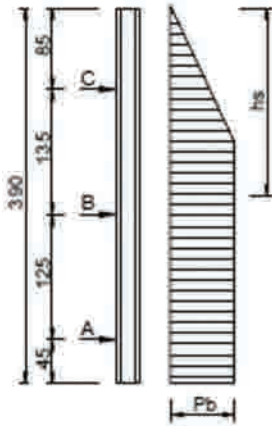


Formwork height	3.60 m				
Concrete pressure (kN/m <sup>2</sup> )	30	40	50	60	70
Girder spacing (cm)	56	44	36	31	27
Max. span deflection (mm)	0.31	0.26	0.29	0.32	0.29
Max. cantilever deflection (mm)	0	0.1	0.06	0.05	0.09
Wailer load C (kN/m)	21	21	21	20	20
Wailer load B (kN/m)	39	50	57	61	62
Wailer load A (kN/m)	31	41	52	62	72



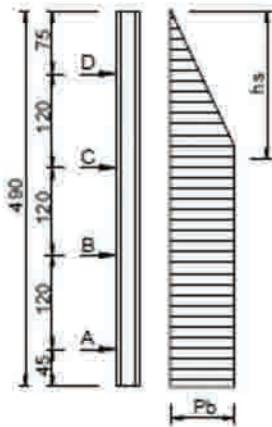
# SIMPEX® WALL FORM

## HT 20 Plus Girder



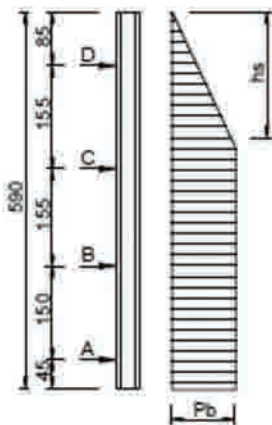
Formwork height 4.00 m

Concrete pressure (kN/m <sup>2</sup> )	30	40	50	60	70
Girder spacing (cm)	52	32	33	28	26
Max. span deflection (mm)	0.41	0.42	0.36	0.32	0.37
Max. cantilever deflection (mm)	0.32	0.08	0.05	0.05	0.11
Wailer load C (kN/m)	30	32	32	31	31
Wailer load B (kN/m)	41	55	66	74	77
Wailer load A (kN/m)	31	41	52	63	74



Formwork height 5.00 m

Concrete pressure (kN/m <sup>2</sup> )	30	40	50	60	70
Girder spacing (cm)	60	44	35	29	25
Max. span deflection (mm)	0.26	0.26	0.26	0.25	0.25
Max. cantilever deflection (mm)	0.85	0.45	0.38	0.38	0.35
Wailer load D (kN/m)	29	30	30	29	29
Wailer load C (kN/m)	36	48	57	62	64
Wailer load B (kN/m)	37	49	62	75	87
Wailer load A (kN/m)	31	41	51	62	72



Formwork height 6.00 m

Concrete pressure (kN/m <sup>2</sup> )	30	40	50	60	70
Girder spacing (cm)	44	33	27	22	19
Max. span deflection (mm)	0.71	0.73	0.64	0.62	0.61
Max. cantilever deflection (mm)	0	0	0	0	0
Wailer load D (kN/m)	32	34	35	35	34
Wailer load C (kN/m)	48	65	79	89	95
Wailer load B (kN/m)	48	64	80	97	114
Wailer load A (kN/m)	34	45	56	67	78

The following maximum section properties and support forces are assumed :

perm. Q =	11 kN	(permissible shear force),
perm. M =	5 kNm	(permissible bending moment),
perm. B =	22 kN	(permissible reaction force when supported at joint under continuous formwork girder, ie inside support of continuous girders, outside support of continuous girders with cantilever section);

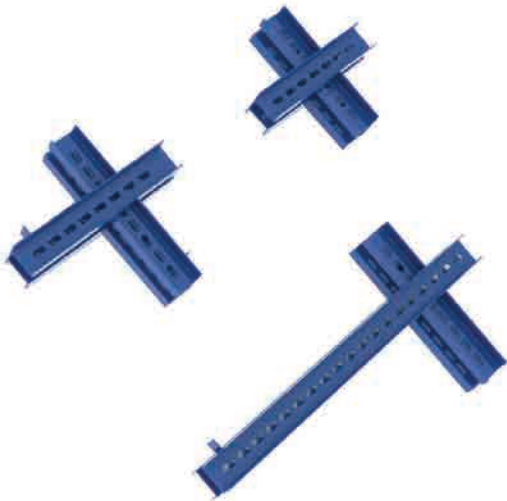
# SIMPEX® WALL FORM

## WALERS



ITEM	ITEM NO	WEIGHT
YK-S 95	030 031 00095	20,90 kg
YK-S 120	030 031 00120	26,40 kg
YK-S 145	030 031 00145	31,90 kg
YK-S 195	030 031 00195	42,90 kg
YK-S 245	030 031 00245	53,90 kg
YK-S 295	030 031 00295	64,90 kg

## INNER CORNER WALER



ITEM	ITEM NO	WEIGHT
YK-T 50x50	030 031 00505	20,24 kg
YK-T 60x60	030 031 00606	24,64 kg
YK-T 60 x120	030 031 00612	37,84 kg

## WALER CONNECTOR



ITEM	ITEM NO	WEIGHT
YK-B 90	030 031 00609	9,60 kg
YK-B 100	030 031 00610	10,40 kg
YK-B 120	030 031 00612	12,95 kg
YK-B 150	030 031 00615	15,45 kg

## ARTICULATED WALER CONNECTOR



ITEM	ITEM NO	WEIGHT
YK-M 90	030 031 00619	9,85 kg
YK-M 100	030 031 00620	10,70 kg
YK-M 120	030 031 00622	13,30 kg
YK-M 150	030 031 00625	15,90 kg



# SIMPEX® WALL FORM

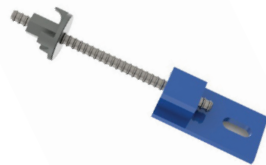
**HT-P 20  
CRANE HOOK**



**HT-P 20 BEAM  
EXTENSION SPLICE PLATE**

ITEM	ITEM NO	WEIGHT
VK-S	030 030 00170	4,30 kg
HE-S	030 030 00110	8,00 kg
HE-H	030 030 00115	5,80 kg

**FILLER PANEL  
PRESSURE PLATE**



**STOP-END  
SPANNER**

ITEM	ITEM NO	WEIGHT
YK-P	030 030 00120	1,60 kg
YK-U	030 030 00130	3,75 kg

**HT-P20  
BEAM CLAMP**



**HT-P20  
END CLAMP**

ITEM	ITEM NO	WEIGHT
HK-D	004 130 00010	0,80 kg
HB-D	004 030 00040	0,72 kg

**CORNER  
SHOE**



**WEDGE  
"CAST"**

ITEM	ITEM NO	WEIGHT
KP-D	004 130 00060	2,70 kg
KA-D	004 130 00050	0,84 kg

**STRIP PLATE**



ITEM	ITEM NO	WEIGHT
ST-P 100	030 030 02100	10,65 kg

# SIMPEX® WALL FORM

## CATWALK BRACKET SIMPEX TYPE



ITEM	ITEM NO	WEIGHT
BD-K 75 S	030 030 00150	7,50 kg

## ACCESS LADDER W/ GUARD



ITEM	ITEM NO	WEIGHT
PL-M 250	030 028 05250	21,20 kg
PL-M 300	030 028 05300	42,50 kg
PL-M 350	030 028 05350	50,60 kg
PL-M 400	030 028 05400	68,35 kg
PL-M 500	030 028 05500	84,10 kg

## PANEL LIFTING BEAM



**PLYWOOD  
SCREW**

ITEM	ITEM NO	WEIGHT
VK-T 600	030 030 00660	245 kg
VI-D 0560	004 106 00560	0,004 kg

## STRIP CORNER PANEL



ITEM	ITEM NO	WEIGHT
ST-C 100	030 030 01100	22,96 kg



# ROUNDEX CIRCULAR WALL FORM



## FLEXY CURVES ALL AROUND

TMS ROUNDEX challenges Circular Water Tanks, Silos, Car Park Ramps, Pools and even architecturally complex curvatures. Continuous adjustability provides you not only the adaptability of formwork from structure to structure, but also changing radii within the same structure is possible, thinking about helical, parabolic or even curvatures changing from convex to concave within the same structure. Panels can easily be adapted to any radii without any re-assembly and panel to panel connection is simply done by panel clips. System can climb with TMS climbing brackets and shaft platforms.



## ROUNDEX AYARLANABİLİR EĞRİ YÜZLÜ KALIP SİSTEMİ KALIP PANOLARINI DEĞİŞTİRMEYEN ÇAP DEĞİŞTİRME KOLAYLIĞI

TMS ROUNDEX ile Dairesel Su Tankları, Silolar, Otopark Rampaları, Havuzlar, Karmaşık Mimarili Eğrisel Yüzeyle Yapılar sorun olmaktan çıkıyor. Minimum 1.2 m yarıçaptan başlayarak sınırsız ayarlanabilir eğri yüzeyle kalıplar, aynı proje içinde farklı çaplara uyarlamayı kolaylaştırdığı gibi, kalıpların daha sonraki projelere de kolayca uyum sağlayabilir olmasıyla büyük avantajlar sağlamaktadır. Sistem TMS Tırmanma Konsolları ve Şaft Platformları ile uyum içinde tırmandırılmaktadır.



TMS ROUNDEX, an adjustable formwork system for radii larger than 1.2 m forming circular structures, especially the ones with varying radii have always been costly, if not difficult from the contractors view point.



# ROUNDEX CIRCULAR WALL FORM



TMS Roundex is a radially adjustable formwork system designed especially for sewage plants, water tanks, car park ramps, silos, pools and even the most complex architectural circular walls.



Starter application with ROUNDEX

Pictured you can see an h=5m ROUNDEX Circular Wall Formwork with tri-tube heavy-duty push-pull props.

Roundex panels can climb with TMS-TRK Climbing Scaffolds.

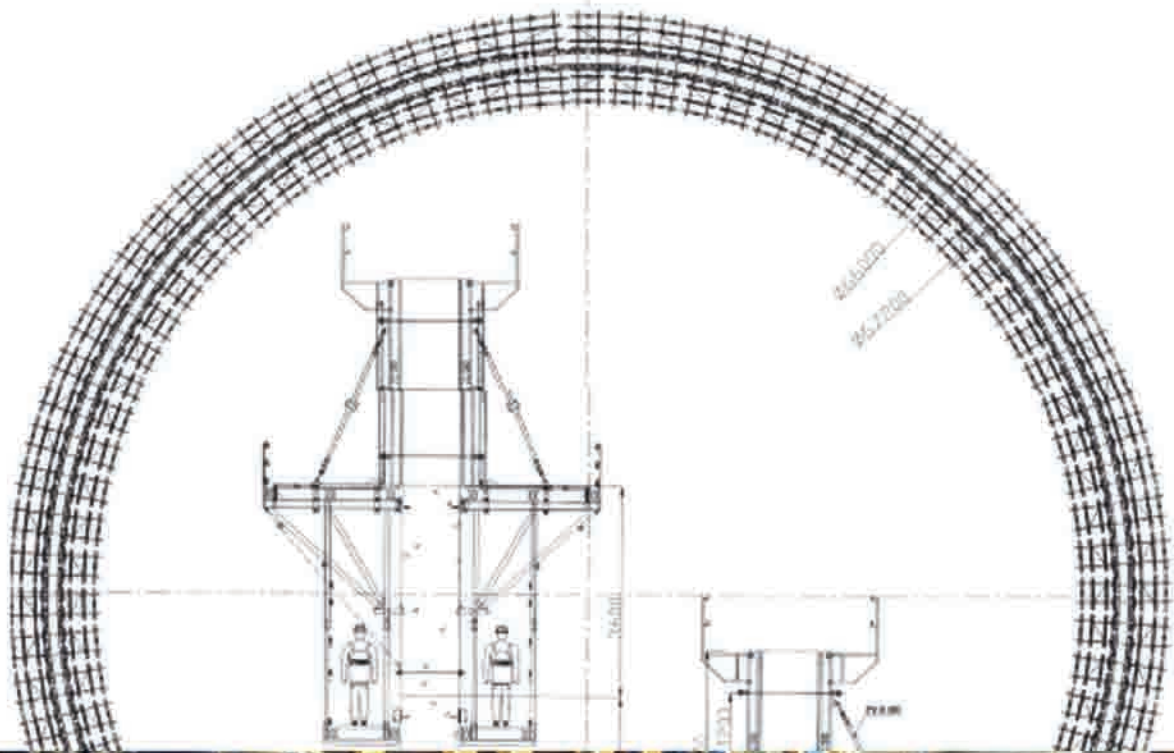
Connection between the Roundex panels are easy with the Combi panel-locks

Roundex panels are assembled with plywood, HT 20 timber beams, special walers and the push-pull type spindles between them.





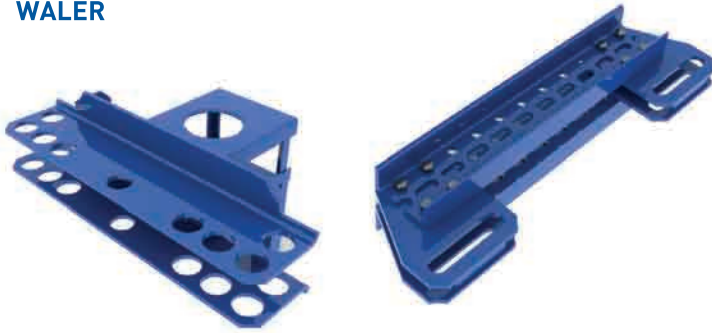
# ROUNDEX CIRCULAR WALL FORM



TMS Roundex is a radially adjustable formwork system designed especially for sewage plants, water tanks, car park ramps, silos, pools and even the most complex architectural circular walls.

# ROUNDEX CIRCULAR WALL FORM

## RT-K WALER



BRIDGING WALER

ITEM	ITEM NO	WEIGHT
RT-K 46	030 031 00070	7,65 kg
RT-K 80	030 031 00080	12,10 kg
YK-R	030 031 00060	37,55 kg

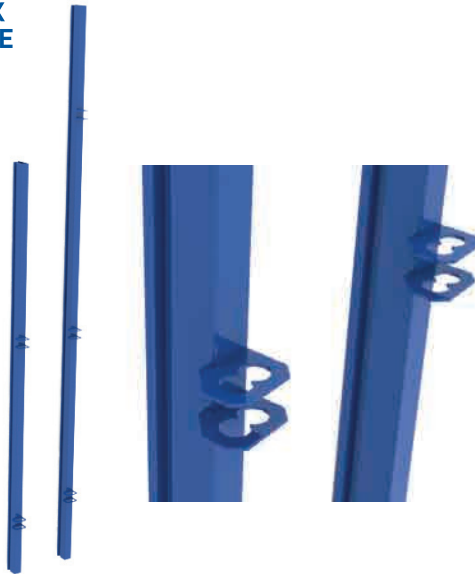
## PUSH-PULL SPINDLE



BRIDGING  
WALER PIN

ITEM	ITEM NO	WEIGHT
RA-G 25	004 130 00225	2,60 kg
RA-G 50	004 130 00250	3,45 kg
RK-P	030 131 00063	1,00 kg

## RP-T ROUNDEX PANEL PROFILE



ITEM	ITEM NO	WEIGHT
RP-T 245	030 031 08245	20,80 kg
RP-T 290	030 031 08290	24,65 kg
RP-T 330	030 031 08330	28,05 kg
RP-T 360	030 031 08360	30,60 kg
RP-T 390	030 031 08390	33,15 kg
RP-T 420	030 031 08420	35,70 kg
RP-T 450	030 031 08450	38,25 kg
RP-T 490	030 031 08490	41,65 kg

## HT-P 20 CRANE HOOK



HT-P 20 BEAM  
EXTENSION SPLICE PLATE

ITEM	ITEM NO	WEIGHT
VK-S	030 030 00170	4,30 kg
HE-S	030 030 00110	8,00 kg
HE-H	030 030 00115	5,80 kg



# ROUNDEX CIRCULAR WALL FORM

**CATWALK BRACKET  
SIMPEX TYPE**



ITEM	ITEM NO	WEIGHT
BD-K 75 S	030 030 00150	7,50 kg

**VINC'I PANEL  
LOCK "TU-T 80"**



ITEM	ITEM NO	WEIGHT
TU-T	030 180 00110	4,90 kg

**ACCESS LADDER  
W/ GUARD**



ITEM	ITEM NO	WEIGHT
PL-M 250	030 028 05250	21,20 kg
PL-M 300	030 028 05300	42,50 kg
PL-M 350	030 028 05350	50,60 kg
PL-M 400	030 028 05400	68,35 kg
PL-M 500	030 028 05500	84,10 kg

**PLYWOOD  
BOLT**



**PLYWOOD  
SCREW**



**"R" PIN**



ITEM	ITEM NO	WEIGHT
CV-S M6x30	004 106 00630	0,004 kg
VI-D Ø5x60	004 106 00560	0,004 kg
GP-R 450	004 130 00240	0,003 kg

# ROUNDEX CIRCULAR WALL FORM

