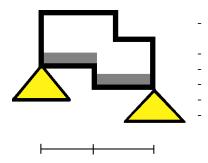
RSLigR 3.00

Program to calculate concrete plates, beams en de precast slabs according to Eurocode 2 en VBC 92:



- With/without prestressing:
- Floor plates for floor systems
 - Hollow core slabs
 - Ribbed floor
 - Beam and block floor
 - Beam with slabplate

😫 RSLigR 3.0	- Cardinal I	- 110	1920			
File BeamDesign	Settings Info					
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			n: (1.00+ 0.80)+ 1.75/0	.40) Vkl. 3		
	11349212.5	<u>~</u> 3	10042-002-00	<u></u>	10.520620	5
900 2	5400 4800		7200 6000	ī	6000 54	
900	4800 1:V1000*230	1200	1:V1000*230	+ 1200 + 2 +	1:V1000	
5 Load						— X—)
B⇒ Load	DeadLoad	LiveLoad	3	4	5	Information
	Nr. Type	Description	kN[/m] kN[/m].m	psi Offset Dist.m1	Length 🔺	Cut/Paste: with
	1					Right Mouse on on 'Nr'
	2	Enc	<mark>i</mark> Ancherage Presti	ressing		mn
		Left		Right:	50 mm	
			1			

Almost all beam design software is developed beying design software, RSLigR is characterized to be a production tool. The application focuses on floors but may also be used to design beams, precast or in-situ. The user is assisted by defaults that may be changed. The menu structure is flat and scarcely needs to be addressed since apart from the buttons a click in the graphics window leads to the relevant section.

Floor slabs may have a up to four fields of which the first and/or the last with an overhang. An intermediate support is calculated with limited capacity. According VBC with the average of 40% of field both filelds. With the end anchorage input it is possible to ajust the prestressing capability.

A beam calculation is stored in a project which in turn may consist of multiple components. In this way a project is stored in one a file. The file is an AccessDatabase. Pre-defined elements with various reinforcement patterns are stored in a profile library. Making a new project a copy of the parent file is stored as project library. Maintenance therefore is very simple.

latabase Files:		- ProjectFolder	Files:
Open Close RSLG: RSLG: RSLG: RSLG: RSLG: RSLG:	RSLG A9521test.mdb Rutte.mdb Schiphol.mdb Son.mdb spancon.mdb spancon.mdb TenL.mdb	D:\ D:\ Duttons Drion Projecten rekenbestanden	- 32442 5 52 60 63211a 66 7964 824071
Geopend: RSLGt RSLG	test 29-05-08.mdb Test.mdb	RSLProfOrion	AdeH afstanden
RSLGTestset.mdb RSLGt	test_SP1.mdb Testset.mdb	n shortcut	CVplus
Description:		Timech	Dooren EC2
Testsets			fimax
			FM fout
			Han
			herverdelen HHeide
art Description:	Order/Sht Mrk ·		HHeide Huzink
Description:	Order/Sht.Mrk.:		HHeide Huzink InnovaCom
Description: LIGGER test	01		HHeide Huzink InnovaCom jansen Mario
Description: LIGGER test List:			HHeide Huzink InnovaCom jansen Mario Marioo
Description: LIGGER test List: 01:LIGGER test 02:BPV Traditioneel	01		HHeide Huzink InnovaCom jansen Mario Marocco mLijn Plus
Description: LIGGER test List: 01:LIGGER test 02:BPV Traditioneel 03:Voorgespannen breedplaat	01	💷 d: [D0-P2]	HHeide Huzink InnovaCom jansen Mario Marocco mLijn Plus RSLG A9521 test
Description: LIGGER test List: 01:LIGGER test 02:BPV Traditioneel	01	[■ d: [D0-P2]	HHeide Huzink InnovaCom jansen Mario Marocco mLijn Plus
Description: LIGGER test List: 01:LIGGER test 02:BPV Traditioneel 03:Voorgespannen breedplaat 04:Kanaalplaatvloeren 05:VS Ligger (ka=1) 06:VS Ligger (ka-1)	01 Design by:		HHeide Huzink InnovaCom jansen Mario Marocco mLijn Plus RSLG A9521test Rutte Schiphol Son
Description: LIGGER test List: 02:BPV Traditioneel 03:Voorgespannen breedplaat 04:Kanaalplaatvloeren 05:VS Ligger (ka=1)	01 Design by:	☐ d: [D0-P2] Prev. <u>N</u> ext	HHeide Huzink InnovaCom jansen Mario Marocco mLijn Plus RSLG A9521test Rutte Schiphol Son spaans
Description: LIGGER test List: 01:LIGGER test 02:BFV Traditioneel 03:Voorgespannen breedplaat 04:Kanaalplaatvloeren 05:VS Ligger (ka=1) 06:VS Ligger (ka<1) 07:Ribbenvloer	01 Design by:		HHeide Huzink InnovaCom jansen Mario Marocco mLijn Plus RSLG A9521test Rutte Schiphol Son spaans spancon TenL
Description: LIGGER test List: 01:LIGGER test 02:BPV Traditioneel 03:Voorgespannen breedplaat 04:Kanaalplaatvloeren 05:VS Ligger (ka=1) 06:VS Ligger (ka<1) 07:Ribbenvloer	01 Design by:	<u>Prev.</u> <u>N</u> ext	HHeide Huzink InnovaCom jansen Mario Marocco mLijn Plus RSLG A9521 test Rutte Schiphol Son spaans spancon TenL test 29-05-08
Description: LIGGER test List: 01:LIGGER test 02:BFV Traditioneel 03:Voorgespannen breedplaat 04:Kanaalplaatvloeren 05:VS Ligger (ka=1) 06:VS Ligger (ka<1) 07:Ribbenvloer	01 Design by: <u>A</u> dd		HHeide Huzink InnovaCom jansen Mario Marocco mLijn Plus RSLG A9521test Rutte Schiphol Son spaans spancon TenL

Reporting output may be done for each calculation, but also for the total of the floor with a cover sheet, explanatory notes, calculations and and the index. The cover sheet may be provided with logos. Cut and paste to achieve a fair report is practically superfluous. Exports directly to PDF as a whole, in 2 parts or 3 parts. Using a merger or PDF editor drawings or strips may to be inserted to complete the document view. Insertion directly without PDF is an option. Provided formats may be with the extension .wmf, .bmp, .gif and .jpg.

Solve All	J
Date Save: Preliminary <u>30-4-2010</u> Final <u>30-4-2010</u> Modified: <u>30-4-2010</u> Modified: <u>30-4-2010</u> Modified: <u>30-4-2010</u> Recalculation Activate: Yes	
Active design saved!?	

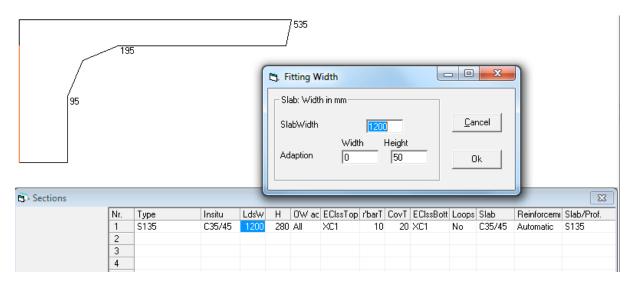
Hollow core slabs can be provided with openings and groove's while the position of the reinforcement is shown. Each rebar being disturbed by one or more openings is checked by calculation considering provided anchoring.

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🙃 Openings

gs							
Nr.	Туре	Depth	X-Dist	dX	Y-Dist	d٢	
1	Rectangle	100	500	200	0	1000	
2	Rectangle	200	500	200	1000	200	
3	Rectangle	100	700	1000	200	200	
4	Rectangle	200	1700	200	200	200	Ε
5	Rectangle	100	6200	600	100	200	
6	Rectangle	100	6800	200	100	900	
7							

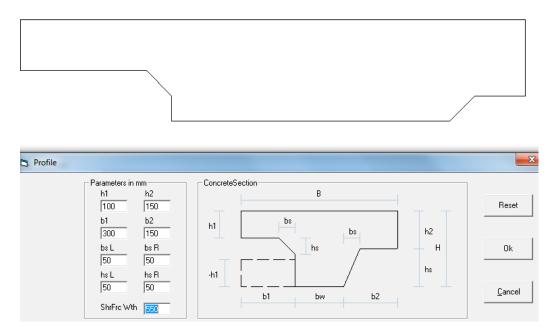
Floor slabs can be reduced in width, with related load, also beying broadened with added cast. Ribbed slabs with openings may have subparts with less width.



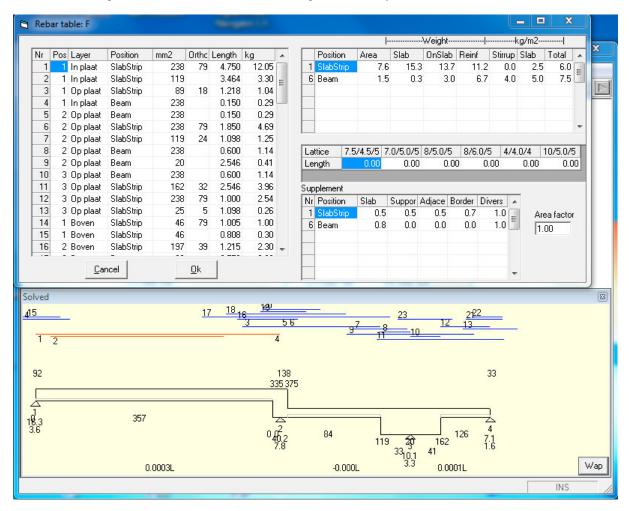
Wide slabs (Form plates) may have predefined parameters of plates and reinforcement patterns.

sections										
	Concrete	Hth	Lattice	Latt.H	Interface	B-supp	ReinfOnSlab	Reinforcement	Cut pat	
	C35/45		8/5.0/5		Rough	1000			No	
FP/Fsyst Dekking20 Dekking25 Dekking30			T + L Prof.			Ok		Automatic 08\$29/2.4m 08\$52/2.4m 12\$52/2.4m		
Dekking35										

Beams and floors with or without plate slab may be provided with random section.



Costs calculation data for wide-slab floors are accessible at each girder and each component totals and averages. Traditional reinforcement in kg/m2 and for patterns of tension as surface amount.



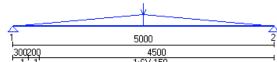
As shown in figure, each beam input may be with: Fire resistance, global loadings, building categories ao.

Deflection Additional End Overrule fi:(max) With shrink Tension st. with	10	L I I	accRigidRot L: 🔽 R:	~	No FireResistance	•
With slendernes urface Multiplier rackingw. on dia	s (7.4.2)		Inhibit deform.		No Redistribution Output layout Layout 0	•
hearF AccM-Ret	oar Bott 🔲				Legiouro	
oad			Stan	dard / Flo	or type	
Category		Veiligh.Klasse	Stand	dard	NEN 6702 TGB	-
	•	Veiligh.Klasse			NEN 6702 TGB	T
Category	•		Stand Floor		NEN 6702 TGB FormPlate/FormSystem	•
Category a) Woningen	▼ kN/m2		Floor		1	_
Category a) Woningen Surface Loads: I	▼ kN/m2	3	Floor		1	_
Category a) Woningen Surface Loads: I Description	▼ kN/m2 A. Area B.	Area C. Area	Floor		1	_
Category a) Woningen Surface Loads: I Description Psi(0)	▼ kN/m2 A. Area B. 0.40	3 Area C. Area 0.00 0.0	Floor		1	_

Global loadings can be assigned to a section, desirable with no load, own weight, or fully implemented.

708 3200 3	{	3100	4	8100		 5	8100)	<u>_</u> 6	5400)	7	8	100	
4600 2:B1000*260		5700 1 00*200 1	1400 2 1:V10	6700)00*200)	1400	1	12 I:V1000	100)*200		,1	400, 2		7400 00*200	
B Sectie															_X
	Nr.	Туре	Beton ihv	B	Н	EG ea	MK Bov.	HwB	DekB	MK Ond.	HwO	DekO	Bgl f	Plaat/Prof.	A
	1	Veldstrk	C20/25	1000	200	A. Vlak	XC2-XC4	10	30	XC2-XC4	10	30	6 6	3PV Trad.	
	2	Balk	C20/25	1000	260	A. Vlak	XC2-XC4	10	- 30	XC2-XC4	10	- 30	6 6	3PV Trad.	

Loads may be: evenly load, point-and M-load. Also vehicle load system with an interval can be introduced. The combinations include VBC standard, chess, assembly and simple.



' 1' 1'		1:SV-15	0									
B Lasten												×
	F	Permanent	Veranderlijk		Ì			Ì				
	Nr.	Туре	Omschrijving	kN[/m]	kN[/m].m	Mom.fac	t.o.v.	Afst.m1	Lengte	sp.br Md	sp.br Td	% BGT 🔺
	1	Q-last	Q-last	0.000	5.000			0.000	2.500	600	600	50%
	2	Q-last	Q-last	5.000	0.000			2.500	2.500	600	600	50% =
	3	F-last	F-last	5.000				2.500		600	600	50%

An extract from report might look like this:

Strook: LSV200		wgm o	op 't root 17-11-2010
Veiligh.Klasse 3, NE	N 6702 TGB, 'C'O	Class ;A:32.5;B:42.5;C:52	1.5, 28d 1'Load

SCHEMA

7600	2
<u>300 200, 1000 200, 400 4300 , 600 200, 600 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>	1
TOP VIEUW SLAB	
OPENINGS DATA Nr Type Depth X-Dist X-dL Y-Dist Y-dL 1 Rectangle 100 500 200 1000 2 Rectangle 200 500 200 1000 200 3 Rectangle 100 700 1000 200 200 4 Rectangle 200 1700 200 200 200 5 Rectangle 100 6200 600 100 200 6 Rectangle 100 6800 200 100 900	
]
PROFILE DATA Nr Description B H Concre C kr ø EClass c øk d Bw 1 LSV-200 1200 200 C12/15 A 3.64 XC1 15 10 180 480 element 1200 200 C45/55 B 2.03 XC1 15 2 LSV-200 1200 100 C12/15 A 3.64 XC1 15 10 80 947 element 1200 200 C45/55 B 2.03 XC1 15	
311,160 315,166 1220(100 [\$41,100 1199,100 [\$138,60	1001,100
(m-726.412 m-63.2) (m-62.29 m-50.0)	1000,30 900,0
LSV-200 afst: 1 LSV-200 afst: 2 Sp;1,2,	1000, 200
	1000,170 1001,100 1939,60
(III-604.604 III-604.664 III-603.3)	1999,0
LSV-200 afst: 3 Sp;3, LSV-200 afst: 4 Sp;4,	
(mm-315.334 mo-45.5) LSV-200 afst: 7 Sp;6,	
REINFORCEMENT PATTERN: Spaansen Plaatvloer (Zonder druklaag)	
Nr.Description Reinforcement In ø a A# Fe# fpo 1 LSV-200 GD 1 7.00 6.9 34 203 1860 1353	fpi 1308
2 3.00 9.3 35 156 1860 1353	1309
3 2.00 5.0 70 40 1770 1287 2 LSV-200 GD 1 7.00 6.9 34 203 1860 1353	1255 1295 1296
2 3.00 9.3 35 156 1860 1353	1255
2 3.00 9.3 35 156 1860 1353 3 2.00 5.0 70 40 1770 1287 1 LSV-200 GD 1 6.00 6.9 34 174 1860 1353 2 3.00 9.3 35 156 1860 1353 3 2.00 5.0 70 40 1770 1287	1308 1308 1255

Strook: LSV200

DISTANCE PROFILE (LOAD kN/m2)

DISTANCE PROFILE (LUAD	NN/1112)							
Nr Description			Length		Fin.			
1 LSV-200	(1200mm)	0.00	0.50	3.96	1.00	0.80	1.75 0	.40
2 Sp;1,2,	(1200mm)	0.50	0.20	3.96	1.00	0.80	1.75 0	.40
3 Sp;3,	(1000mm)	0.70	1.00	3.96	1.00	0.80	1.75 0	.40
4 Sp;4,	(1000mm)	1.70	0.20	3.96	1.00	0.80	1.75 0	.40
5 LSV-200	(1200mm)	1.90	4.30	3.96	1.00	0.80	1.75.0	. 40
6 Sp;5,	(1000mm)	6.20						
7 Sp;6,	(300mm)	6.80			1.00		1.75 0	
8 LSV-200	(1200mm)	7.00			1.00		1.75 0	
0 100 200	(12000000)	1.00	0.00	0.00	1.00	0.00	1.70 0	
LOAD CASE								
	.		-					
B.G. Description	Combinat			psi		(ruip)		ance.
1 Permanent	NEN perm				1.00	-		Α.
2 Veranderlijk	NEN 6702	-6.3.3	.3	0.4	0 0.60)	N.	Α.
COMBINATIONS								
BC Type	LC Fac	tor LO	C Factor	LC	Factor	LC Fa	ctor	LC Factor
1 UGT: Fundamenteel	1 1.	35						
2 UGT: Fundamenteel	1 1.	20 2	2 1.50					
3 BGT: Incidenteel			2 1.00					
4 BGT: Momentaan	1 1.		2 0.60					
5 BGT: Onmiddelijk	1 1		0.00					
o bortonmudderrjx								
REACTIONS								
Pos. Permanent	Veranderl	-						
Min Max		ax						
1 26.27 26.27	7.98 7.							
2 26.27 26.27	7.98 7.	98						
FIELDS MOMENTS (excl. Mp	& Load spread	ading)						
Veld 1:Fundamenteel 2	:Fundament	eel 3:1	Incident	eel	4:Momer	itaan	5:On	umiddelijk
1 67.38 kNm	82.64 kNm		55.08 kN			kNm		.91 kNm
UPPER REINFORCEMENT								
Pos. As Mu neo	- Mari	M 7.	eq b	h	Mre		d	Asd Rem.
1 -10.4							1 180	0 ASG REAL
								-
1+ 1.90 -52.9) -30.2 -		215 989				5 180	0 6)
A 4 4 A 5 7 7 7						-11	0 180	0 6)
) -31.6 -							
2-0.80 -38.7	7 -16.4 -	20.4 2	245 1189	200	2.4	4 -2.	7 180	0 6)
2-0.80 -38.7		20.4 2 19.3 2	245 1189 234 1189) 200 200	2.4 -0.5	4 -2. 5 -5.	7 180 0 180	0 6)
2- 0.80 -38.7 2- 0.60 -36.2	7 -16.4 -	20.4 2 19.3 2	245 1189) 200 200	2.4	4 -2. 5 -5. 5 -25.	7 180 0 180 3 180	0 6)
2- 0.80 -38.7 2- 0.60 -36.2	7 -16.4 - 2 -15.0 - 0 -31.6 -	20.4 2 19.3 2 43.9 2	245 1189 234 1189 232 1189	200 200 200	2.4 -0.5 -17.5	4 -2. 5 -5. 5 -25.	7 180 0 180	0 6) 0 6)
2- 0.80 -38.7 2- 0.60 -36.2 2- 0.58 -56.0	7 -16.4 - 2 -15.0 - 0 -31.6 - 4 -5.3 -	20.4 2 19.3 2 43.9 2	245 1189 234 1189 232 1189	200 200 200	2.4 -0.5 -17.5	4 -2. 5 -5. 5 -25.	7 180 0 180 3 180	0 6) 0 6) 0

SLAB PATTERN

Pos.	Pattern	sgm#	ь	h	Ald	Mrep	Md	Mow	Mcc Rem.
1+ 0.	.50 GD	1691	1200	200	2	-6.71	-2.39	0.00	0.00 1)
1+ 0.	.50 GD	1691	1001	100	2	-6.71	0.60	0.00	0.00 6)
1+ 0.	.70 GD	1549	1001	100	353	16.36	22.24	0.00	0.00
1+ 0.	.70 GD	1549	1001	100	353	16.36	25.04	0.00	0.00 6)
1+ 1.	.70 GD	1691	1000	200	192	24.30	36.50	0.00	0.00 1)
1+ 1	.70 GD	1691	1000	200	192	24.30	40.64	0.00	0.00 6)
1+ 1.	.90 GD	1691	1000	200	192	22.66	35.83	0.00	0.00 1)
1+ 1.	.90 GD	1691	1000	200	192	22.66	39.56	0.00	0.00 6)
1+ 3	.80 GD	1691	1200	200	255	34.57	52.13	0.00	0.00 1)
2- 1	.40 GD	1691	1000	200	125	11.58	26.89	0.00	0.00 6)
2-1	.40 GD	1691	1000	200	125	11.58	22.13	0.00	0.00 1)
2-0.	.80 GD	1616	300	200	105	10.33	22.94	0.00	0.00 6)
2-0	.80 GD	1616	300	200	105	10.33	16.95	0.00	0.00 1)
2-0	.60 GD	1691	300	200	4	-10.47	1.04	0.00	0.00 6)
2-0	.60 GD	1691	1200	200	4	-10.47	-5.36	0.00	0.00 1)
Remar	<pre>k 1):MinReinfPerc,</pre>	6):Shi	iftMom	ent,					

Strook: LSV200

PROFILE: Spaansen Plaatvloer

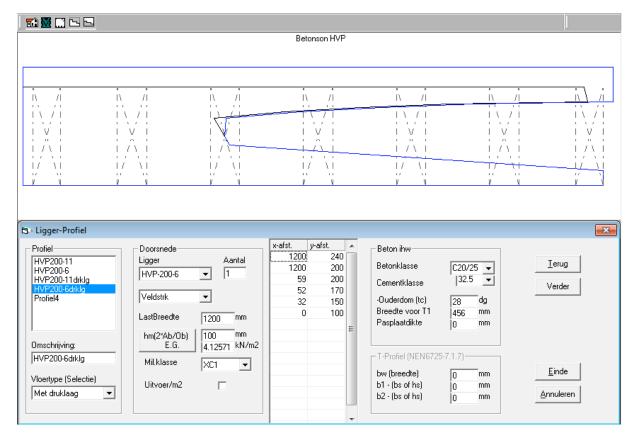
Nr.	Description	Reinforcement	Mpw	Mu	Mr	Mrs	Ix	S'bmd
1	LSV-200	GD	-22.71	46.3	57.6	46.9	726	-2.19
2	LSV-200	GD	-5.41	24.5	16.2	18.1	82	-4.61
1	LSV-200	GD	-20.90	70.3	56.1	47.2	655	-2.37
1	LSV-200	GD	-26.15	76.2	53.4	50.1	605	-3.03
1	LSV-200	GD	-30.51	87.4	63.2	58.1	726	-2.89
1	LSV-200	GD	-27.54	87.2	61.2	57.8	655	-3.07
1	LSV-200	GD	-14.18	57.1	44.7	47.5	315	-4.08
1	LSV-200	GD	-29.40	65.6	62.4	56.5	726	-2.79

SHEARFORCE REINFORCEMENT

Pos	<		>	Vd (1)	Vd(r)	tau_d	tau_1	tau_2	d	b	As/m	Remark
1+	0	1+	500	43.49	37.77	0.55	1.80	6.60	166	480	0	:8.2.3.3
1+	500	1+	508	37.77	37.68	0.60	3.68	6.60	66	947	0	:8.2.3.3
1+	508	1+	700	37.68	35.48	0.60	1.71	6.60	66	947	0	:8.2.3.1+2
1+	700	1+	715	35.48	35.31	0.53	1.33	6.60	166	400	0	:8.2.3.1+2
1+	715	1+	1239	35.31	29.31	0.53	2.46	6.60	166	400	0	:8.2.3.3!hts1
1+	1239	1+	1700	29.31	24.04	0.44	1.27	6.60	166	400	0	:8.2.3.1+2
1+	1700	1+	1848	24.04	22.34	0.36	1.42	6.60	166	400	0	:8.2.3.1+2
1+	1848	1+	1900	22.34	21.75	0.34	1.48	6.60	166	400	0	:8.2.3.1+2
1+	1900	2-	1968	21.75	20.97	0.27	1.28	6.60	166	480	0	:8.2.3.1+2
2-	1968	2-	1400	20.97	27.47	0.34	1.34	6.60	166	480	0	:8.2.3.3!hts1
2-	1400	2-	800	27.47	34.34	0.52	2.60	6.60	166	400	0	:8.2.3.3!hts1
2-	800	2-	600	34.34	36.63	1.84	2.49	6.60	166	120	0	:8.2.3.3
2-	600	2-	0	36.63	43.49	0.55	1.80	6.60	166	480	0	:8.2.3.3

DEFLECTION

Field	‡%L	Additional	Completion	Total	Camber	End
1	1.1	8.4	2.7	11.2	-9.6	1.6



RSLProf.exe is a program to access the library with pre-defined slabs, plate systems with multiple reinforcement patterns. An slab can be omplemented by added cast as a topping or adjacent. The properties which are relevant for the calculation are beying abstracted, such as the location of the channels and positions of the reinforcement. The section coordinates are beying compressed on the y-axis.

	7			
B-s Ligger BasisLigger HVP-200-5 Ligger2 Omschrijving: HVP-200-6 Wapening tabel 200-6 Max. lengte 11500 mm	x-afst. y-afst. ▲ 1141 200 1148 170 867 166 688 159 532 150 389 137 421 83 1180 30 1180 0 0 1180	Doorsnede Beton-klasse C50/60 Ontspannen (B##) 25 Cementklasse 42.5 VS- Ouderdom (tc) 7 -Dg tot montage (t) 28 Mil klasse XC1 Hm. (2*Ab/Db) 100 Dekking boven/onder 30 VP code ####################################	Dwarskracht/Verbinding Aansluitvlak Stortvlak Bgl. Hoek 0 Bgl. Diam. a50% (brand) 71 mm T-Profiel (NEN6725-7.1.7) bw (breedte) 0 mm b1 · (bs of hs) 0 mm b2 · (bs of bs) 0 mm	Ierug ⊻erder Einde Annuleren

Reinforcement patterns may consist of four layers that need to be introduced bottum-up in order and distance. Max. elementlength may be connected to a reinforcement pattern or each element. If both were introduced the length of the rebarring will have first priority.

A set of slabs may be created to provide easy selections i.e. with or without cast topping or other set formation. The height of the cast topping would be then lowest potential greater heights are allowed dynamicly.

Fabrikant Keuze:	Vloertype Type Selectie:
Betonson HVP	Allen
	Allen Geen druklaag Met druklaag Type3
Naam:	Ver <u>w</u> ijder
Betonson HVP	Vloertype Produkt:
	Kanaalplaatvloer 🗨
⊻erwijder	Layout voor uitvoer
	Layout 1
<u>Annuleren</u>	Uitvoer blokkade