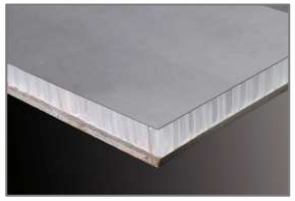
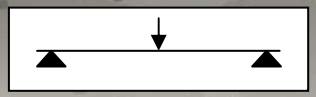
nidaplast composites

LOAD TABLES



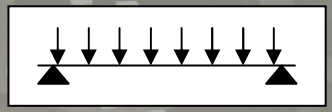
Indicatives tables of load for a bending of 1/200 of the unsupported length sandwichs **nidaplast® 8, GRP skins 2 mm**, E modulus 10000 Mpa.
(e = thickness of **nidaplast®**,
L = unsupported length)

1) supported, central load



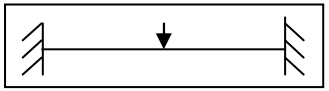
Total load daN per m of width					
Span L (cm) / e (mm)	50	100	150	200	300
5	34	11	5	3	1
10	81	30	14	8	4
15	138	55	28	16	8
20	201	88	45	27	12
23	240	109	57	34	16
28	309	149	80	49	23
40	481	260	147	91	44
50	630	365	214	136	66
60	782	478	290	187	93
70	936	598	374	245	123
80	1 090	724	464	309	158
90	1 246	854	560	378	196

2) supported, distributed load



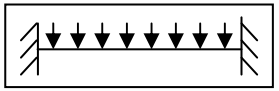
Total load daN/m²					
Span L (cm) / e (mm)	50	100	150	200	300
5	115	18	6	2	1
10	283	49	16	7	2
15	490	92	30	13	4
20	725	148	49	22	7
23	874	185	63	28	9
28	1 135	255	89	40	12
40	1 798	450	164	75	24
50	2 376	640	241	112	36
60	2 970	846	329	156	51
70	3 575	1 067	427	205	67
80	4 184	1 300	533	259	86
90	4 802	1 545	647	319	107

3) fixed, central load



Total load daN per m of width					
Span L (cm) / e (mm)	50	100	150	200	300
5	71	34	18	11	5
10	143	81	47	30	14
15	219	138	85	56	28
20	296	201	131	88	45
23	343	240	160	109	57
28	422	309	214	149	80
40	611	481	355	260	147
50	770	630	484	365	215
60	930	782	619	478	291
70	1 089	936	758	599	374
80	1 249	1 091	901	724	464
90	1 408	1 247	1 046	854	560

4) fixed, distributed load



Total load daN/m²					
Span L (cm) / e (mm)	50	100	150	200	300
5	284	68	24	11	3
10	572	162	63	30	10
15	875	276	114	56	19
20	1 185	401	174	88	30
23	1 372	481	214	109	38
28	1 686	618	285	149	53
40	2 446	963	474	260	98
50	3 082	1 261	645	365	143
60	3 719	1 564	825	478	194
70	4 356	1 872	1 011	599	249
80	4 995	2 181	1 201	724	310
90	5 633	2 493	1 395	854	373

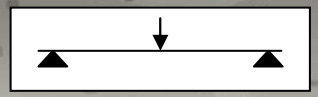
not available, too high shear

NOTA : The indicated directions can serve as a guide to use the product but cannot be considered as a guarantee of a good working up. Additionally application, utilization and/or transformation of the products escape our control possibilities. As a consequence, they exclusively remain the responsibility of the user and/or the transformer

nidaplast composites

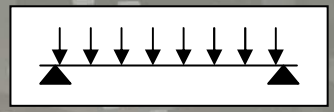
Indicatives tables of load for a bending of 1/200 of the unsupported length sandwichs nidaplast® 8, Plywood skins 2,5 mm, E modulus 5000 Mpa.
(e = thickness of **nidaplast®**,
L = unsupported length)

1) supported, central load



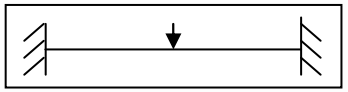
Total load daN per m of width					
Span L (cm) / e (mm)	50	100	150	200	300
5	27	8	4	2	1
10	64	21	10	6	3
15	111	40	19	11	5
20	165	63	31	18	8
23	200	79	39	23	11
28	261	109	55	33	15
40	418	194	102	62	29
50	557	277	151	92	44
60	701	370	207	128	61
70	848	470	269	169	81
80	998	576	338	214	104
90	1 149	687	412	264	130

2) supported, distributed load



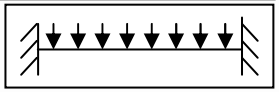
Total load daN/m²					
Span L (cm) / e (mm)	50	100	150	200	300
5	91	13	4	2	1
10	221	35	11	5	1
15	388	65	21	9	3
20	582	104	34	15	4
23	709	132	43	19	6
28	935	182	60	26	8
40	1 526	329	113	50	16
50	2 057	475	167	75	24
60	2 611	639	230	105	33
70	3 181	818	302	139	44
80	3 763	1 010	380	177	57
90	4 354	1 214	466	219	71

3) fixed, central load



Total load daN per m of width					
Span L (cm) / e (mm)	50	100	150	200	300
5	65	27	14	8	4
10	131	64	35	21	5
15	203	112	64	40	19
20	278	165	99	63	31
23	324	200	122	79	39
28	401	261	165	109	55
40	588	418	282	194	103
50	746	557	392	278	151
60	904	701	511	370	207
70	1 062	849	635	470	270
80	1 221	998	765	576	338
90	1 381	1 149	898	688	412

4) fixed, distributed load



Total load daN/m²					
Span L (cm) / e (mm)	50	100	150	200	300
5	259	54	18	8	3
10	524	129	47	21	3
15	813	223	85	40	13
20	1 112	331	131	63	21
23	1 295	400	163	79	26
28	1 603	522	220	109	37
40	2 352	837	377	194	69
50	2 982	1 115	523	278	101
60	3 615	1 403	681	370	138
70	4 250	1 697	847	470	180
80	4 886	1 996	1 020	576	225
90	5 523	2 299	1 198	688	275

Not available, too high shear

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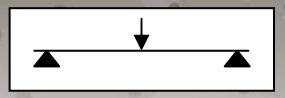
nidaplast composites

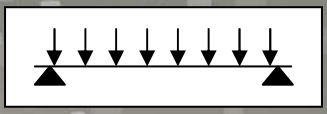
Indicatives tables of load for a bending of 1/200 of the unsupported length sandwichs nidaplast® 8, Aluminium skins 1 mm, E modulus 70000 Mpa.
(e = thickness of **nidaplast®**,
L = unsupported length)

1) supported, central load



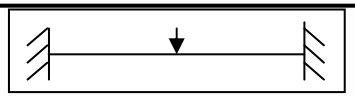
Total load daN per m of width					
Span L (cm) / e (mm)	50	100	150	200	300
5	54	23	12	7	3
10	123	65	36	22	11
15	197	117	70	44	22
20	274	176	111	73	37
23	320	214	138	92	47
28	399	280	187	128	67
40	588	448	321	230	127
50	746	594	443	327	187
60	905	744	573	434	256
70	1 065	896	708	548	333
80	1 224	1 049	848	668	416
90	1 384	1 204	990	792	505

2) supported, distributed load



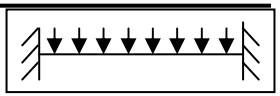
Total load daN/m²					
Span L (cm) / e (mm)	50	100	150	200	300
5	194	39	13	6	2
10	458	112	40	18	6
15	747	206	79	37	12
20	1 048	315	126	61	20
23	1 231	386	159	77	26
28	1 231	386	159	77	26
40	2 292	831	380	198	70
50	2 923	1 113	531	285	105
60	3 557	1 405	693	381	144
70	4 193	1 702	864	486	189
80	4 830	2 004	1 041	596	237
90	5 467	2 309	1 223	712	290

3) fixed, central load



Total load daN per m of width					
Span L (cm) / e (mm)	50	100	150	200	300
5	80	54	35	23	12
10	159	123	89	65	36
15	238	197	153	117	70
20	318	274	223	176	111
23	366	320	266	214	138
28	446	399	339	280	187
40	637	588	520	448	321
50	797	746	674	594	443
60	957	905	830	744	573
70	1 117	1 065	987	896	708
80	1 277	1 224	1 145	1 049	848
90	1 437	1 384	1 303	1 204	990

4) fixed, distributed load



Total load daN/m²					
Span L (cm) / e (mm)	50	100	150	200	300
5	321	108	46	23	8
10	636	246	119	65	24
15	953	395	205	117	46
20	1 272	548	297	176	74
23	1 464	641	354	214	92
28	1 783	797	452	280	125
40	2 550	1 176	694	448	214
50	3 190	1 493	899	594	296
60	3 829	1 811	1 107	744	382
70	4 469	2 129	1 316	896	473
80	5 109	2 448	1 526	1 050	565
90	5 749	2 767	1 737	1 204	660

not available, too high shear

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