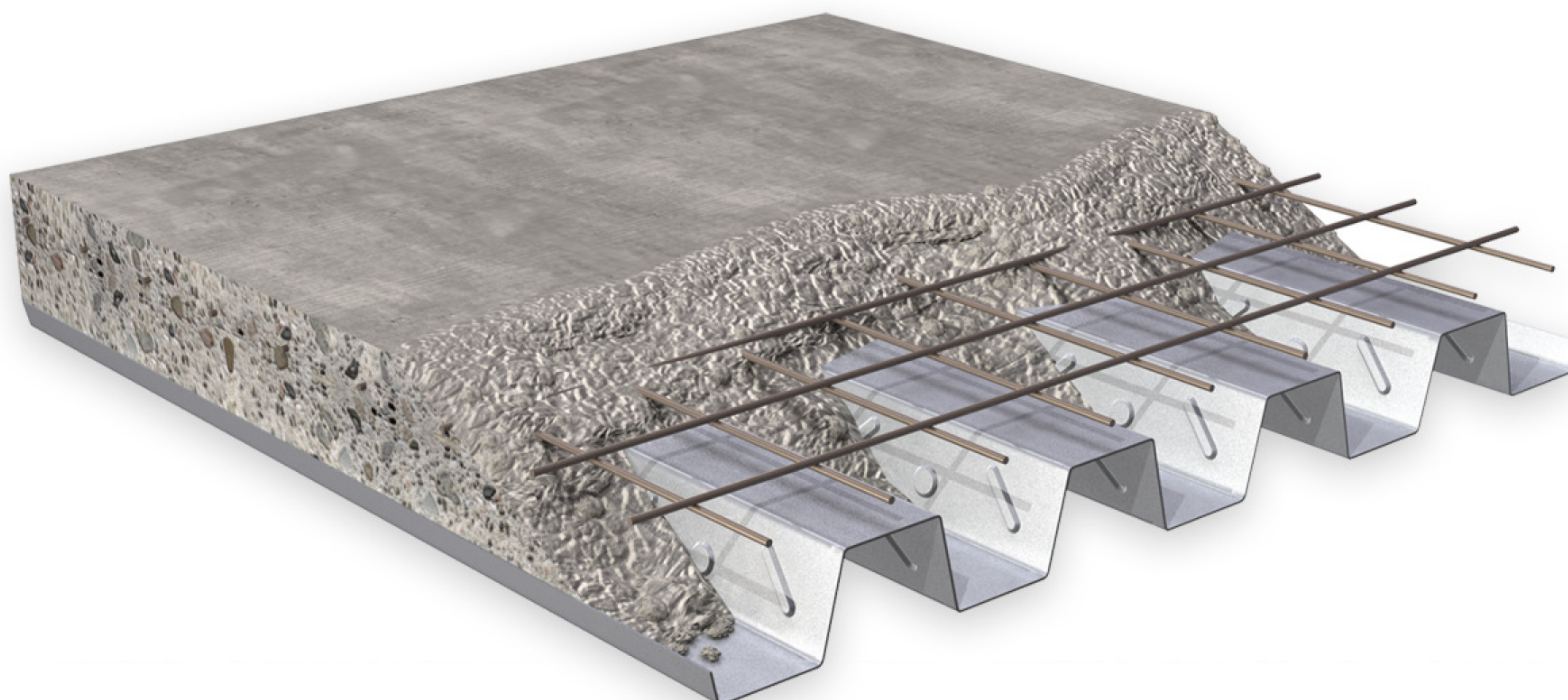


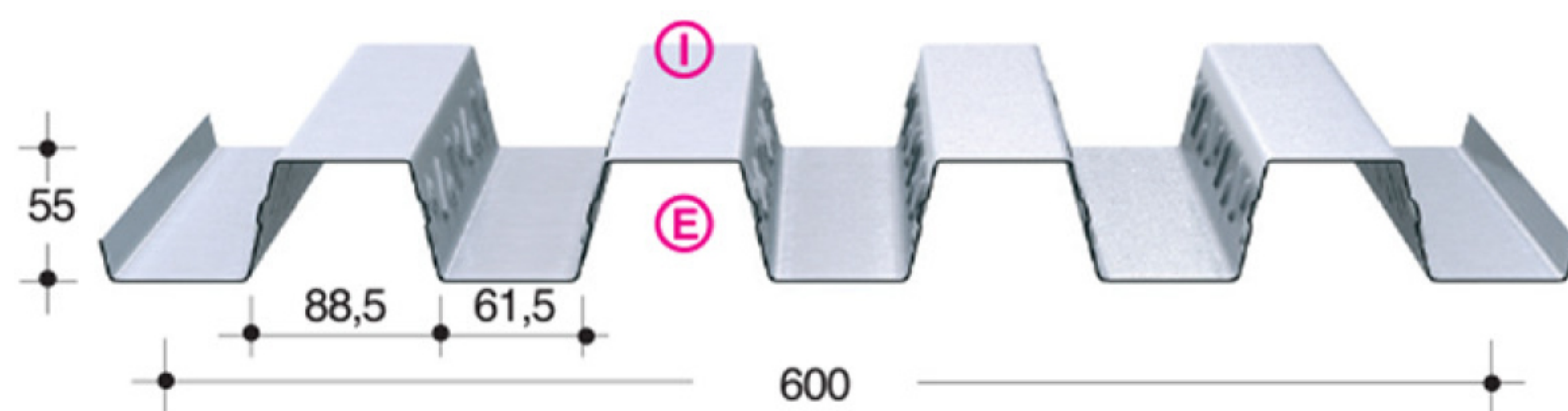
SOLAC® 55 STEEL DECKINGS

® registered trade name

ENG



SOLAC® 55



JOINT

Geometric and static properties					Net loads in Kg/m ²														
thickness mm	SLAB - 3,5 cm. HT = 9 cm.				loading conditions	height cm	thickness mm	weight Kg/m ²	ℓ span in m										
	X cm	J cm ⁴ /m	W cm ³ /m	Me kg cm/m					1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
0,6	5,81	227	39,04	54649		SLAB 3,5 cm. Ht = 9 cm.	0,6	162	1781	1266	931	702	538	416	324	252	195	149	111
0,7	5,66	253	44,67	62536			0,7	163	2060	1470	1088	825	637	498	393	310	245	193	150
0,8	5,52	277	50,16	70223			0,8	164	2332	1670	1240	945	734	578	460	367	294	235	184
1,0	5,29	321	60,78	85098			1,0	167	2859	2056	1535	1178	922	733	590	478	389	317	238
1,2	5,10	362	71,02	99429			1,2	169	3246	2428	1819	1402	1103	882	714	584	480	384	287
deflection cm								0,28	0,39	0,50	0,64	0,79	0,95	1,13	1,33	1,54	1,77	2,00	

Geometric and static properties					Net loads in Kg/m ²														
thickness mm	SLAB - 4,5 cm. HT = 10 cm.				loading conditions	height cm	thickness mm	weight Kg/m ²	ℓ span in m										
	X cm	J cm ⁴ /m	W cm ³ /m	Me kg cm/m					1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
0,6	6,50	300	46,11	64553		SLAB 4,5 cm. Ht = 10 cm.	0,6	187	2108	1499	1104	833	639	496	387	302	235	180	136
0,7	6,32	334	52,77	73875			0,7	188	2438	1742	1289	979	757	593	468	371	294	232	181
0,8	6,16	365	59,25	82952			0,8	189	2760	1977	1470	1121	872	688	548	439	352	282	225
1,0	5,90	423	71,76	100470			1,0	192	3328	2433	1818	1396	1094	871	701	569	464	380	310
1,2	5,68	476	83,76	117261			1,2	194	3458	2869	2151	1659	1307	1046	848	694	571	473	392
deflection cm								0,25	0,34	0,45	0,57	0,70	0,85	1,01	1,19	1,38	1,58	1,80	

Geometric and static properties					Net loads in Kg/m ²														
thickness mm	SLAB - 5,5 cm. HT = 11 cm.				loading conditions	height cm	thickness mm	weight Kg/m ²	ℓ span in m										
	X cm	J cm ⁴ /m	W cm ³ /m	Me kg cm/m					1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00
0,6	7,21	387	53,63	75085		SLAB 5,5 cm. Ht = 11 cm.	0,6	212	2458	1749	1290	975	749	582	455	357	278	215	163
0,7	7,01	430	61,41	85971			0,7	213	2844	2033	1506	1145	887	696	551	438	348	276	217
0,8	6,83	471	68,98	96574			0,8	214	3219	2308	1717	1312	1022	807	644	517	416	335	268
1,0	6,53	546	83,60	117040			1,0	217	3605	2840	2124	1633	1281	1021	823	670	547	449	368
1,2	6,28	613	97,61	136651			1,2	219	3730	3166	2514	1940	1530	1226	995	816	673	558	464
deflection cm								0,23	0,31	0,41	0,51	0,64	0,77	0,92	1,07	1,25	1,43	1,63	

SOLAC® STEEL DECKINGS - The use of the trapezoidal steel sheets in the construction of floors has impacted an innovation of great importance ; the elasticity of the system allows easy use in every condition. The particular marks on the sides of the ribs permit the anchoring of the concrete thus avoiding horizontal slide or vertical detachment. The steel deckings Solac® 55 and Solac® 75 have achieved the UNI EN 1090-1:2009+A1:2011 Certification referred to the Execution of Structural Steel Components - EXECUTION CLASS UP TO EXC3.

Technical norms for trapezoidal sheets and deckings
- D.M. 09/01/96 - CNR 10022-84 - UNI EN 1090-1
- CNR UNI 10011-88 - CNR 10016-72
- EUROCODE 3 - PART 1.3