

Calcul déperdition de chaleur et classes d'isolation

Température aller °C	80
Température retour °C	60
Température sol °C	10
<b>Δθ [K]</b>	<b>60</b>

Conditions de calcul selon paramètres EN 15632-1/ EN 13941-1:

- Distance des tubes, tubes simples = 0,1m
- Profondeur de couverture = 0,8m
- Conductivité thermique sol = 1,0 W/m·K
- Conductivité thermique VIP = 0,0042 W/m·K
- Conductivité thermique mousse PE = 0,0410 W/m·K
- Conductivité thermique tube PE-x = 0,4000 W/m·K
- Conductivité thermique gaine PE = 0,4000 W/m·K

Code article	Gamme	Diamètre Tube/Gaine [Ext-mm]	DN	Valeur U [W/m·K]	Classe isolation EN 12828	Déperdition q cf. Δθ [W/m]	Rayon de courbure [m]	Longueur bobine [m]
1018230	VARIA_SINGLE	25/90	DN 20	0.172	4	10.3	0.25	200
1018231	VARIA_SINGLE	32/90	DN 25	0.207	4	12.4	0.35	200
1018232	VARIA_SINGLE	40/140	DN 32	0.189	4	11.3	0.35	200
1018233	VARIA_SINGLE	50/140	DN 40	0.226	4	13.6	0.40	200
1018234	VARIA_SINGLE	63/140	DN 50	0.284	3	17.0	0.50	200
1018235	VARIA_SINGLE	75/175	DN 65	0.267	4	16.0	0.60	200
1018236	VARIA_SINGLE	90/175	DN 80	0.329	3	19.7	0.70	100
1018237	VARIA_SINGLE	110/175	DN 90	0.443	2	26.6	0.90	100
1062886	VARIA_SINGLE	125/200	DN 100	0.433	2	26.0	1.30	120
1018238	VARIA_TWIN	25-25/140	DN 20/20	0.236	6	14.2	0.40	200
1018239	VARIA_TWIN	32-32/140	DN 25/25	0.293	5	17.6	0.50	200
1018240	VARIA_TWIN	40-40/140	DN 32/32	0.398	4	23.9	0.70	200
1018241	VARIA_TWIN	50-50/175	DN 40/40	0.371	5	22.3	0.90	200
1095714	THERMO_VIP_SINGLE	40/140	DN 32	0.098	6	5.9	0.35	200
1095715	THERMO_VIP_SINGLE	50/140	DN 40	0.115	6	6.9	0.40	200
1095716	THERMO_VIP_SINGLE	63/140	DN 50	0.138	6	8.3	0.50	200
1095717	THERMO_VIP_SINGLE	75/140	DN 65	0.163	6	9.8	0.60	200
1095718	THERMO_VIP_SINGLE	90/175	DN 80	0.166	6	10.0	0.70	100
1095719	THERMO_VIP_SINGLE	110/175	DN 90	0.209	5	12.5	0.90	100
1095720	THERMO_VIP_SINGLE	125/200	DN 100	0.215	6	12.9	1.30	120
1121643	THERMO_VIP_SINGLE	140/200	DN 125	0.253	5	15.2	1.70	100
1121644	THERMO_VIP_SINGLE	160/250	DN 150	0.247	6	14.8	2.10	80
1118580	THERMO_VIP_TWIN	25-25/140	DN 20/20	0.122	6	7.3	0.40	200
1118581	THERMO_VIP_TWIN	32-32/140	DN 25/25	0.145	6	8.7	0.50	200
1118582	THERMO_VIP_TWIN	40-40/175	DN 32/32	0.153	6	9.2	0.80	200
1118583	THERMO_VIP_TWIN	50-50/175	DN 40/40	0.185	6	11.1	0.90	200
1118584	THERMO_VIP_TWIN	63-63/200	DN 50/50	0.212	6	12.7	1.20	100
1118585	THERMO_VIP_TWIN	75-75/250	DN 65/65	0.222	6	13.3	1.40	100
1018109	THERMO_SINGLE	25/140	DN 20	0.141	5	8.5	0.25	200
1018110	THERMO_SINGLE	32/140	DN 25	0.162	5	9.7	0.30	200
1018111	THERMO_SINGLE	40/175	DN 32	0.162	5	9.7	0.35	200
1018112	THERMO_SINGLE	50/175	DN 40	0.188	5	11.3	0.45	200
1018113	THERMO_SINGLE	63/175	DN 50	0.226	4	13.6	0.55	200
1018114	THERMO_SINGLE	75/200	DN 65	0.233	4	14.0	0.80	100
1018115	THERMO_SINGLE	90/200	DN 80	0.279	4	16.7	1.10	100
1018116	THERMO_SINGLE	110/200	DN 90	0.356	3	21.4	1.20	100
1018134	THERMO_TWIN	25-25/175	DN 20/20	0.194	6	11.6	0.50	200
1018135	THERMO_TWIN	32-32/175	DN 25/25	0.230	6	13.8	0.60	200
1018136	THERMO_TWIN	40-40/175	DN 32/32	0.286	6	17.2	0.80	200
1018137	THERMO_TWIN	50-50/200	DN 40/40	0.303	6	18.2	1.00	100
1018138	THERMO_TWIN	63-63/200	DN 50/50	0.426	4	25.6	1.20	100
1018132	THERMO_MINI	25/68	DN 20	0.229	3	13.7	0.33	200
1018133	THERMO_MINI	32/68	DN 25	0.294	1	17.6	0.54	200
1093894	THERMO_TWIN HP	32-32/140	DN 25/25	0.347	5	20.8	0.50	200
1093895	THERMO_TWIN HP	40-40/175	DN 32/32	0.376	4	22.6	0.80	200
1119047	AQUA_VIP_SINGLE	40/140	DN 32	0.098	6	5.9	0.40	200
1119048	AQUA_VIP_SINGLE	50/140	DN 40	0.115	6	6.9	0.45	200
1119049	AQUA_VIP_SINGLE	63/140	DN 50	0.137	6	8.2	0.55	200
1119050	AQUA_VIP_SINGLE	75/140	DN 65	0.161	6	9.7	0.70	100
1119051	AQUA_VIP_SINGLE	90/175	DN 80	0.165	6	9.9	0.80	100
1119052	AQUA_VIP_SINGLE	110/175	DN 90	0.207	6	12.4	1.00	100
1119053	AQUA_VIP_TWIN	25-20/140	DN 20/15	0.118	6	7.1	0.45	200
1119054	AQUA_VIP_TWIN	32-20/140	DN 25/20	0.125	6	7.5	0.55	200
1119055	AQUA_VIP_TWIN	40-25/140	DN 32/20	0.148	6	8.9	0.70	200
1119056	AQUA_VIP_TWIN	50-32/175	DN 40/25	0.158	6	9.5	0.80	200
1132671	AQUA_VIP_TWIN	63-40/200	DN 50/32	0.171	6	10.3	0.90	100
1018117	Aqua_SINGLE	25/140	DN 20	0.140	6	8.4	0.35	200
1018118	Aqua_SINGLE	32/140	DN 25	0.161	5	9.7	0.40	200
1018119	Aqua_SINGLE	40/175	DN 32	0.160	5	9.6	0.45	200
1018120	Aqua_SINGLE	50/175	DN 40	0.186	5	11.2	0.55	200
1018121	Aqua_SINGLE	63/175	DN 50	0.224	4	13.4	0.65	200
1084885	Aqua_TWIN	25-20/140	DN 20/15	0.222	6	13.3	0.65	200
1018139	Aqua_TWIN	25-25/175	DN 20/20	0.193	6	11.6	0.65	200
1084886	Aqua_TWIN	32-20/175	DN 25/15	0.198	6	11.9	0.70	200
1018140	Aqua_TWIN	32-25/175	DN 25/20	0.217	6	13.0	0.70	200
1018141	Aqua_TWIN	40-25/175	DN 32/20	0.234	6	14.0	0.90	200
1018142	Aqua_TWIN	50-25/175	DN 40/20	0.282	6	16.9	1.00	200
1034188	Aqua_TWIN	50-32/175	DN 40/25	0.296	6	17.8	1.00	200
1095722	SUPRA	25/68	DN 20	0.230	3	-	0.30	200
1095723	SUPRA	32/68	DN 25	0.305	1	-	0.40	200
1095724	SUPRA	40/140	DN 32	0.184	5	-	0.50	200
1095725	SUPRA	50/140	DN 40	0.224	4	-	0.60	200
1095726	SUPRA	63/140	DN 50	0.288	3	-	0.70	200
1095727	SUPRA	75/175	DN 65	0.267	4	-	0.90	150
1095728	SUPRA	90/175	DN 80	0.338	3	-	1.00	100
1095729	SUPRA	110/200	DN 90	0.368	3	-	1.20	100
1095730	SUPRA_PLUS_Câblé	25/68	DN 20	0.230	3	-	0.30	150
1095731	SUPRA_PLUS_Câblé	32/68	DN 25	0.305	1	-	0.40	150
1095734	SUPRA_PLUS_Câblé	40/140	DN 32	0.184	5	-	0.50	150
1095736	SUPRA_PLUS_Câblé	50/140	DN 40	0.224	4	-	0.60	150
1095737	SUPRA_PLUS_Câblé	63/140	DN 50	0.288	3	-	0.70	150
1095738	SUPRA_PLUS_Câblé	75/175	DN 65	0.267	4	-	0.90	150
1095739	SUPRA_PLUS_Câblé	90/200	DN 80	0.279	4	-	1.10	100
1095740	SUPRA_PLUS_Câblé	110/200	DN 90	0.368	3	-	1.20	100
1018147	QUATTRO	25-25-25-25/175	DN 20/20/20/20	0.273	6	16.4	0.80	200
1018148	QUATTRO	32-32-25-25/175	DN 25/25/20/20	0.296	5	17.8	0.80	200
1018149	QUATTRO	32-32-32-25/175	DN 25/25/25/20	0.311	5	18.7	0.80	200
1084890	QUATTRO	40-40-40-25/200	DN 32/32/32/20	0.328	5	19.7	1.00	100