



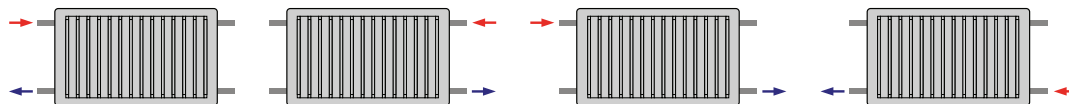
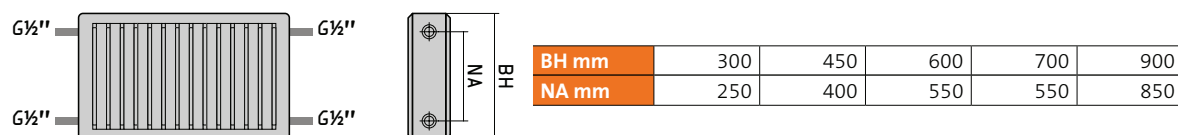
COMPACT

The Compact 4-connector profile radiator is fitted with 4 x ½" BSP connections at the side. The vertical profile is 33 mm and this in combination with the convection fins gives high performance, even in the low temperature range.

- Accessories included in the packaging and the price : brackets, 1 airvent, 1 blank cap.
- Connections : 4 x ½" BSP, ISO 228, at the side.
- Installation : ≤1600 mm : 2 fixing brackets
>1600 mm : 3 fixing brackets
- Vertical profile : 33 mm.
- Colours : prices are based on white RAL 9016. Other RAL and special colours are available upon request with a 25% supplement (excludes 700mm height). See p. 131/158 for more details and colour options.
- Accessories : see p. 152.

CONNECTION OPTIONS

dimensions in mm



panel radiators



Compact (*Purmo C*)

The PURMO Compact panel radiators with profiled heating panels and convection fins are equipped with side covers and a top grille. Four G ½ " threaded female connectors allow for side connection on both right and left side.

technical specifications

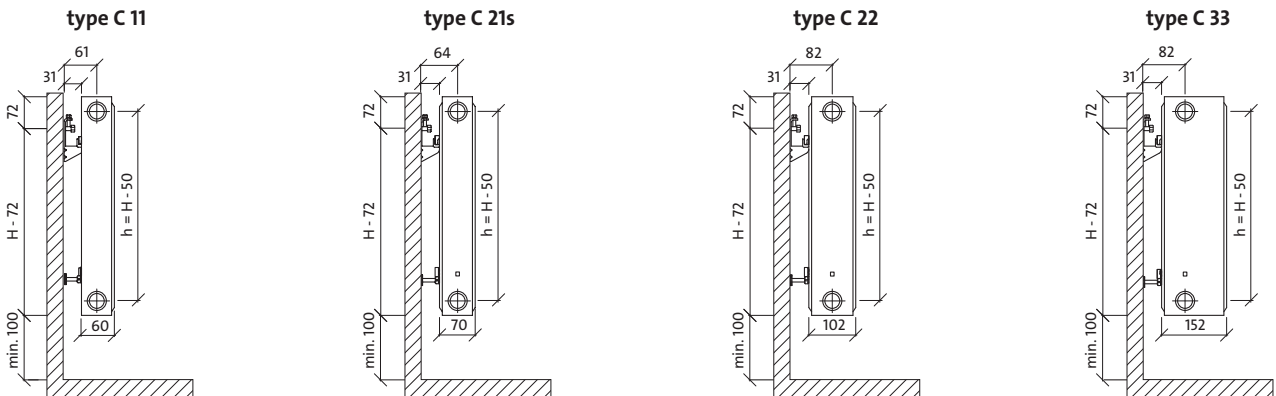
- Material : high quality, deep-drawing, low-carbon, cold rolled DC01 steel sheet in accordance with PN-EN 10130.
- Spacing of vertical water channels : 33,3 mm
- Connections : 4 x G ½ " side connectors
- Working pressure : 10 bar
- Maximal temperature : 110 °C
- Test pressure : 13 bar
- Colour : RAL 9016 white, other colours from the RAL colour chart are available on request.
- Accessories bundled with the radiator: brackets, plug, air vent.



Compact

panel radiators

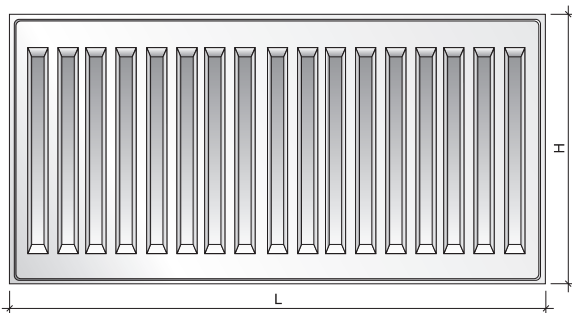
side views



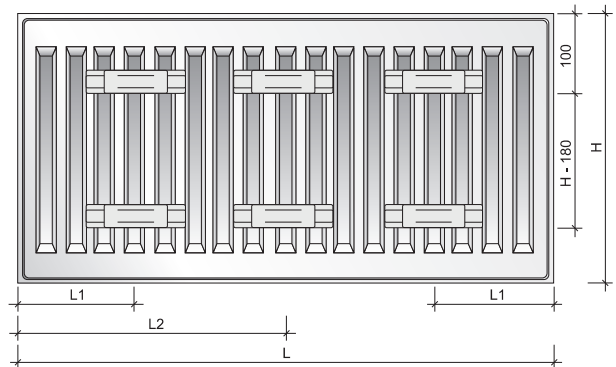
dimensions in mm

H = height
 L = length
 h = spacing of connectors

front view



rear view



water volume, weight and mounting distances

water volume : l/m

height type	300	450	500	550	600	900
11	1,7	2,5	2,7	3,0	3,2	4,5
21s	3,4	5,0	5,5	6,1	6,6	9,0
22	3,4	5,0	5,5	6,1	6,6	9,0
33	5,1	7,5	8,2	9,0	9,8	13,3

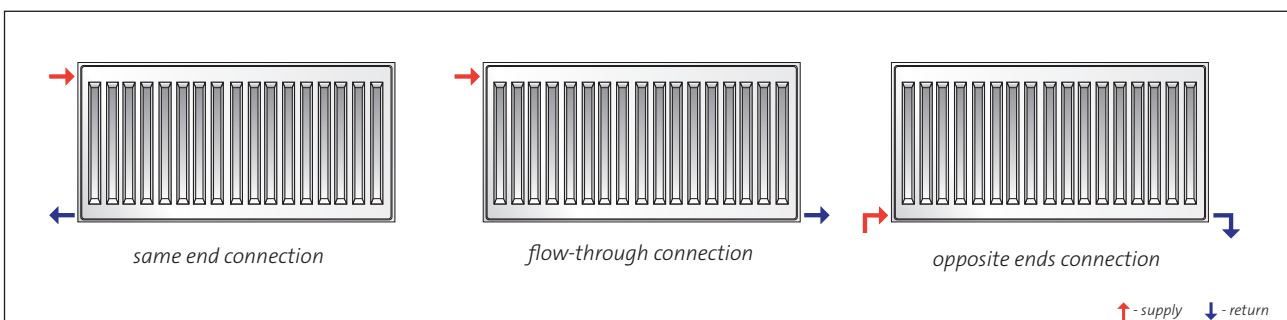
weight : kg/m

height type	300	450	500	550	600	900
11	9,1	13,9	15,5	17,1	18,7	28,3
21s	14,0	21,2	23,5	25,9	28,3	42,3
22	16,3	24,9	27,7	30,6	33,4	50,7
33	24,5	37,4	41,6	45,9	50,2	75,8

mounting distances : mm

type	C 11		C 21s, C 22, C 33		
	L	L1	L2	L1	L2
400-1600	117	-	-	133	-
1800	117	917	-	133	900
2000	117	1017	-	133	1000
2300	117	1150	-	133	1167
2600	117	1317	-	133	1300
3000	117	1517	-	133	1500

recommended connections





RADIATOR DESCRIPTION - AN EXAMPLE : **PURMO C 11 600 x 1200**

name _____
 type _____
 height _____
 length _____

PURMO C 11

length [mm]	parameters $t_z / t_p / t_i$	height [mm]					
		300	450	500	550	600	900
400	75/65/20 °C	218	316	347	378	407	571
	55/45/20 °C	112	161	177	192	207	289
500	75/65/20 °C	273	395	434	472	509	714
	55/45/20 °C	140	201	221	240	258	361
600	75/65/20 °C	328	474	521	566	611	856
	55/45/20 °C	167	241	265	288	310	433
700	75/65/20 °C	382	553	608	661	713	999
	55/45/20 °C	195	282	309	336	362	506
800	75/65/20 °C	437	632	694	755	814	1142
	55/45/20 °C	223	322	353	384	413	578
900	75/65/20 °C	491	711	781	850	916	1284
	55/45/20 °C	251	362	398	432	465	650
1000	75/65/20 °C	546	790	868	944	1018	1427
	55/45/20 °C	279	402	442	480	517	722
1100	75/65/20 °C	601	869	955	1038	1120	1570
	55/45/20 °C	307	443	486	528	569	795
1200	75/65/20 °C	655	948	1042	1133	1222	1712
	55/45/20 °C	335	483	530	576	620	867
1400	75/65/20 °C	764	1106	1215	1322	1425	1998
	55/45/20 °C	391	563	618	672	724	1011
1600	75/65/20 °C	874	1264	1389	1510	1629	2283
	55/45/20 °C	447	644	707	768	827	1156
1800	75/65/20 °C	983	1422	1562	1699	1832	2569
	55/45/20 °C	502	724	795	864	930	1300
2000	75/65/20 °C	1092	1580	1736	1888	2036	2854
	55/45/20 °C	558	805	883	960	1034	1445
2300	75/65/20 °C	1256	1817	1996	2171	2341	3282
	55/45/20 °C	642	926	1016	1104	1189	1662
2600	75/65/20 °C	1420	2054	2257	2454	2647	3710
	55/45/20 °C	726	1046	1148	1248	1344	1878
3000	75/65/20 °C	1638	2370	2604	2832	3054	4281
	55/45/20 °C	837	1207	1325	1439	1551	2167

Thermal output of the radiators [W] in accordance with PN-EN 442 for the values of parameters 75/65/20 °C and 55/45/20 °C.

[W/m] 90/70/20 °C exponent n	686	994	1093	1189	1283	1800
	1,2981	1,3048	1,3070	1,3093	1,3115	1,3170



RADIATOR DESCRIPTION - AN EXAMPLE : **PURMO C 22 600 x 1200**

PURMO C 22

name _____
 type _____
 height _____
 length _____

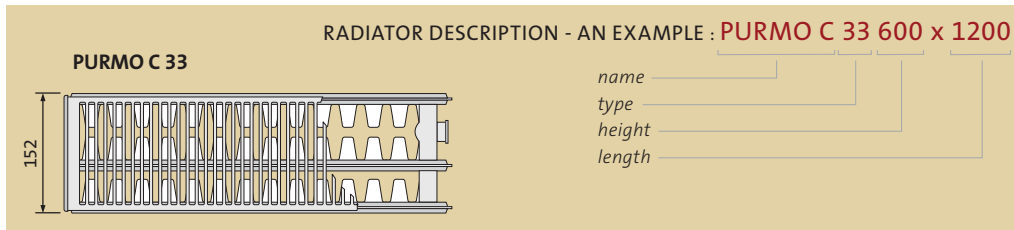
length [mm]	parameters $t_z / t_p / t_i$	height [mm]					
		300	450	500	550	600	900
400	75/65/20 °C	384	539	588	636	684	955
	55/45/20 °C	195	272	296	320	343	474
500	75/65/20 °C	481	674	735	796	855	1194
	55/45/20 °C	244	340	370	400	428	592
600	75/65/20 °C	577	808	882	955	1025	1433
	55/45/20 °C	293	408	444	480	514	711
700	75/65/20 °C	673	943	1029	1114	1196	1672
	55/45/20 °C	342	476	518	560	600	829
800	75/65/20 °C	769	1078	1176	1273	1367	1910
	55/45/20 °C	391	544	592	640	685	948
900	75/65/20 °C	865	1212	1323	1432	1538	2149
	55/45/20 °C	440	612	666	720	771	1066
1000	75/65/20 °C	961	1347	1470	1591	1709	2388
	55/45/20 °C	488	680	740	799	857	1185
1100	75/65/20 °C	1057	1482	1617	1750	1880	2627
	55/45/20 °C	537	748	814	879	943	1303
1200	75/65/20 °C	1153	1616	1764	1909	2051	2866
	55/45/20 °C	586	816	888	959	1028	1422
1400	75/65/20 °C	1345	1886	2058	2227	2393	3343
	55/45/20 °C	684	952	1037	1119	1200	1659
1600	75/65/20 °C	1538	2155	2352	2546	2734	3821
	55/45/20 °C	781	1088	1185	1279	1371	1896
1800	75/65/20 °C	1730	2425	2646	2864	3076	4298
	55/45/20 °C	879	1224	1333	1439	1542	2133
2000	75/65/20 °C	1922	2694	2940	3182	3418	4776
	55/45/20 °C	977	1360	1481	1599	1714	2370
2300	75/65/20 °C	2210	3098	3381	3659	3931	5492
	55/45/20 °C	1123	1564	1703	1839	1971	2725
2600	75/65/20 °C	2499	3502	3822	4137	4443	6209
	55/45/20 °C	1270	1768	1925	2079	2228	3080
3000	75/65/20 °C	2883	4041	4410	4773	5127	7164
	55/45/20 °C	1465	2040	2221	2398	2571	3554

Thermal output of the radiators [W] in accordance with PN-EN 442 for the values of parameters 75/65/20 °C and 55/45/20 °C.

[W/m] 90/70/20 °C exponent n	1211 1,3094	1701 1,3226	1857 1,3270	2012 1,3314	2163 1,3358	3033 1,3561
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Compact *type 33*

panel radiators



length [mm]	parameters $t_z / t_p / t_i$	height [mm]					
		300	450	500	550	600	900
400	75/65/20 °C	539	748	814	879	942	1304
	55/45/20 °C	273	376	408	439	469	646
500	75/65/20 °C	674	935	1018	1099	1178	1630
	55/45/20 °C	341	470	510	549	587	807
600	75/65/20 °C	808	1121	1221	1318	1414	1956
	55/45/20 °C	410	564	612	659	704	968
700	75/65/20 °C	943	1308	1425	1538	1649	2282
	55/45/20 °C	478	657	714	768	821	1130
800	75/65/20 °C	1078	1495	1628	1758	1885	2608
	55/45/20 °C	546	751	816	878	939	1291
900	75/65/20 °C	1212	1682	1832	1977	2120	2934
	55/45/20 °C	615	845	918	988	1056	1453
1000	75/65/20 °C	1347	1869	2035	2197	2356	3260
	55/45/20 °C	683	939	1020	1098	1173	1614
1100	75/65/20 °C	1482	2056	2239	2417	2592	3586
	55/45/20 °C	751	1033	1122	1207	1291	1776
1200	75/65/20 °C	1616	2243	2442	2636	2827	3912
	55/45/20 °C	820	1127	1224	1317	1408	1937
1400	75/65/20 °C	1886	2617	2849	3076	3298	4564
	55/45/20 °C	956	1315	1427	1537	1643	2260
1600	75/65/20 °C	2155	2990	3256	3515	3770	5216
	55/45/20 °C	1093	1503	1631	1756	1877	2583
1800	75/65/20 °C	2425	3364	3663	3955	4241	5868
	55/45/20 °C	1229	1691	1835	1976	2112	2905
2000	75/65/20 °C	2694	3738	4070	4394	4712	6520
	55/45/20 °C	1366	1878	2039	2195	2347	3228
2300	75/65/20 °C	3098	4299	4681	5053	5419	7498
	55/45/20 °C	1571	2160	2345	2524	2699	3713
2600	75/65/20 °C	3502	4859	5291	5712	6126	8476
	55/45/20 °C	1776	2442	2651	2854	3051	4197
3000	75/65/20 °C	4041	5607	6105	6591	7068	9780
	55/45/20 °C	2049	2818	3059	3293	3520	4842

Thermal output of the radiators [W] in accordance with PN-EN 442 for the values of parameters 75/65/20 °C and 55/45/20 °C.

[W/m] 90/70/20 °C exponent n	1698 1,3140	2363 1,3313	2576 1,3371	2784 1,3428	2988 1,3486	4143 1,3600
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Compact



Compact Ventil



Plan Compact



Plan Compact Ventil



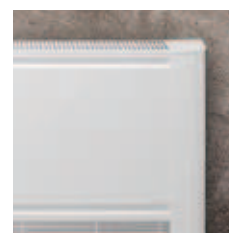
Plan Compact
Ventil M



Ramo Ventil



Vertical



Safety Radiator

CHARACTERISTICS

- All Purmo panel radiators are produced with a cold rolled, high quality steel plate 125mm thick according to EN 10130.
- Certain models have vertical profiles of 33 mm or 50 mm. Other models are provided with a flat front.
- Testing pressure 13 bar. Ramo Ventil + Vertical : 8 bar.
- Working pressure 10 bar. Ramo Ventil + Vertical : 6 bar.
- Working temperature max. 110 °C.

COLOURS

Our standard colour is white RAL 9016. Other RAL and special colours are available upon request with a 25% supplement. See p. 131/158 for more details and colour options.

HEAT OUTPUT

Heat outputs were measured according to the EN 442 standard, with a water temperature of 75/65 °C and a room temperature of 20 °C (delta $\Delta T=50$).



PACKAGING

The radiators are protected with cardboard, including corner edge protections. The radiators are shrink-wrapped. The radiator can remain inside the packaging until installation is complete, to prevent any damage. The entire packaging is recyclable.

	Compact	Compact Ventil	Plan Compact	Plan Compact Ventil	Plan Compact Ventil M	Ramo Ventil	Vertical	Safety Radiator
profiled front - 33 mm	✓	✓	x	x	x	x	x	x
profiled front - 50 mm	x	x	x	x	x	x	✓	x
flat front	x	x	✓	✓	✓	✓	x	✓
testing pressure - bar	13	13	13	13	13	8	8	10
working pressure - bar	10	10	10	10	10	6	6	8
side covers	✓	✓	✓	✓	✓	✓	✓	✓
top grill	✓	✓	✓	✓	✓	✓	x	✓
welded on assembly points								
type 10	✓	✓	✓	✓	✓	✓	✓	-
type 11	✓	✓	✓	✓	✓	✓	-	✓
type 21S	✓	x	✓	x	x	✓	-	-
type 22	✓	x	✓	x	x	✓	-	✓
type 33	✓	x	✓	x	x	✓	-	-
number of connections	4	6	4	6	6	6	6	4
supply and return pipes visible	✓	x	✓	x	x	x	✓	✓
thermostatic valve body included	x	✓	x	✓	✓	✓	x	x
including attachment kit	✓	✓	✓	✓	✓	✓	✓	x
assembly packaging	✓	✓	✓	✓	✓	✓	x	✓
bore template	x	x	x	x	x	x	✓	x

✓ = yes; x = no

PRODUCTION & COATING PROCESS

Panel radiators are produced on fully automated, ultra-modern lines. They may be inspected at any time during the production process. The water tightness of each radiator is individually tested at the end of the production line.

Radiators are coated in a modern facility specially designed to protect the environment.

PRE-TREATMENT

Pre-treatment of radiators consists of degreasing and phosphating. In combination with the base coat, the phosphate layer provides excellent rust protection. After pre-treatment, the radiators are rinsed with deionised water.

COATING

This process consists of 2 main stages. First, the radiators are immersed in a 2nd generation KTL bath to cover them with a layer of anti-rust base by means of cataphoresis. They are then dried in hot air at a temperature of around 175 °C. The final coat is then applied. This powder coat of epoxy-polyester is applied to the radiators by electrophoresis. The powder coating is then heated at a temperature of almost 185 °C. Outstandingly hard and stable, the finishing coat is resistant to scratches, moisture and acids and complies with the DIN 55900 and EN 442 standards.

tested heat output Φ_s

According to EN 442:

$$t_1 = 75^\circ\text{C}, t_2 = 65^\circ\text{C}, t_r = 20^\circ\text{C}$$

Temperature difference $\Delta T = 50\text{K}$

For other ΔT 's use the following correction factor:

$$U_f = \left(\frac{\Delta T}{50}\right)^n$$

where n shown in table below.

Symbols used;

Φ = Greek letter pronounced fi

W = Watts (1W = 0.86kcal/h)

$^\circ\text{C}$ = Degrees Celsius

K = Degrees Kelvin

Definition	Symbol	Unit
Heat Output	Φ	W
Flow Temperature	t_1	$^\circ\text{C}$
Return Temperature	t_2	$^\circ\text{C}$
Temperature Drop	$t_1 - t_2$	K
Ambient Air Temperature	t_r	$^\circ\text{C}$
Temperature Difference	ΔT	K
$\frac{t_1 + t_2}{2} - t_r$		

temperature difference for other ΔT 's

For flow temperatures t_1 from 85°C to 40°C and return temperatures t_2 from 70°C to 35°C .

Please refer to specific radiator page for the correct n value.

temperature difference ΔT

Flow Temperature (t_1 $^\circ\text{C}$)	Ambient Air Temperature (t_r $^\circ\text{C}$)	Return Temperature (t_2 $^\circ\text{C}$)							
		70	65	60	55	50	45	40	35
85	15	63	60	58	55	53	50	48	45
	18	60	57	55	52	50	47	45	42
	20	58	55	53	50	48	45	43	40
	22	56	53	51	48	46	43	41	38
80	15	60	58	55	53	50	48	45	43
	18	57	55	52	50	47	45	42	40
	20	55	53	50	48	45	43	40	38
	22	53	51	48	46	43	41	38	36
75	15	58	55	53	50	48	45	43	40
	18	55	52	50	47	45	42	40	37
	20	53	50	48	45	43	40	38	35
	22	51	48	46	43	41	38	36	33
70	15	49	46	44	41	39	36	34	31
	18	-	53	50	48	45	43	40	38
	20	-	50	47	45	42	40	37	35
	22	-	48	45	43	40	38	35	33
65	15	-	46	43	41	38	36	34	31
	18	-	44	41	39	36	34	31	29
	20	-	-	48	45	43	40	38	35
	22	-	-	45	42	40	37	35	32
60	15	-	-	43	40	38	35	33	30
	18	-	-	40	37	35	32	30	28
	20	-	-	38	35	33	30	28	26
	22	-	-	36	33	31	28	26	24
55	15	-	-	34	31	29	26	24	21
	18	-	-	-	43	40	38	35	33
	20	-	-	-	40	37	35	32	30
	22	-	-	-	38	35	33	30	28
50	15	-	-	-	36	33	31	28	26
	18	-	-	-	34	31	29	26	24
	20	-	-	-	-	38	35	33	30
	22	-	-	-	-	35	32	30	27
45	15	-	-	-	-	33	30	28	25
	18	-	-	-	-	30	27	25	23
	20	-	-	-	-	28	25	23	21
	22	-	-	-	-	26	23	21	19
40	15	-	-	-	-	24	21	19	16
	18	-	-	-	-	-	28	25	22
	20	-	-	-	-	-	25	22	20
	22	-	-	-	-	-	23	20	18
35	15	-	-	-	-	-	21	18	16
	18	-	-	-	-	-	19	16	14
	20	-	-	-	-	-	-	23	20
	22	-	-	-	-	-	-	20	18
30	15	-	-	-	-	-	-	16	14
	18	-	-	-	-	-	-	-	23
	20	-	-	-	-	-	-	-	20
	22	-	-	-	-	-	-	-	18
25	15	-	-	-	-	-	-	-	16
	18	-	-	-	-	-	-	-	14
	20	-	-	-	-	-	-	-	12
	22	-	-	-	-	-	-	-	10



Colour options

Our standard colour is white RAL 9016.

Any RAL or special colour is available on request*. To order simply add RAL or special colour code to the end of the order code eg. **AP06500830/3003** for a radiator in RAL 3003. Please note, there is a 25% supplement for non-standard colours.

*Some exclusions apply. Please see individual product pages for more details.

RAL colours

Purmo offers the choice of any RAL colour.



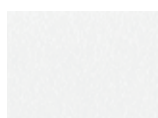
Special colours

Purmo also offers the following textured, metallic and shimmer metallic colours.

Textured

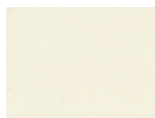


black textured
SO141

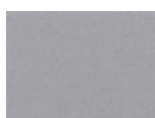


white textured
SO142

Metallic



cream
SO145



light grey
SO143



brown grey
SO144



anodic natural
SO149



anodic bronze
SO146



anodic brown
SO147



anodic black
SO148

Shimmer metallic



metal alu
SO201



metal black
SO104



metal grey
SO102

Cancellation policy for non-stocked items

All our non-stocked and special colour items are made to order. Should an order be cancelled after it has been placed with the factory an administration fee of 30% of the product value may be applied.