Specification for

Colours for identification, coding and special purposes

ICS 01.070



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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee STI/14, Colour schedules, upon which the following bodies were represented:

A E A Technology Association of Metropolitan Authorities British Ceramic Research Ltd. British Ceramic Tile Council British Coatings Federation Ltd. British Colour Makers' Association British Decorators' Association British Gas Plc British Railways Board British Telecommunications Plc **Builders Merchants' Federation Building** Centre **Chartered Society of Designers** Convention of Scottish Local Authorities Department for Education Department of Health Department of Transport **Electricity Association** London Transport (Buses) Ministry of Defence Oil and Colour Chemists' Association Paint Research Association Post Office **Royal Institute of British Architects** Society of Chief Architects of Local Authorities

This British Standard, having been prepared under the direction of the Sector Board for Materials and Chemicals, was published under the authority of the Standards Board and comes into effect on 15 December 1996

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Foreword

This British Standard has been prepared by Technical Committee STI/14. It is a revision of the 1988 edition, which is withdrawn. It is intended as the principal standard for surface colours that are used for identification, coding and special purposes such as signalling and camouflage. It is a collection of colours used by industry, public bodies, Government departments and other major organizations, and colours needed for various signalling and coding systems.

Any colours required for identification and coding systems should therefore be chosen from the colours in this standard.

The standard does not constitute a coordinated range of colours for building purposes, which is the subject of BS 5252 : 1976 and standards derived from it e.g. BS 4800.

BS 381 was first published in 1930, and a revised version was issued in 1948 as BS 381C *Colours for ready mixed paints*. With the publication in 1955 of BS 2660 *Colours for building and decorative paints* (superseded in 1972 by BS 4800), it became necessary to distinguish between the selected range of colours provided by that standard and the unrelated individual colours in BS 381C, which provided standardization of colours for applications that were not necessarily limited either to buildings or to paints. This led to the revision, published as BS 381C : 1964 Colours for *specific purposes* (described as 'for identification or other technical purposes, or for purposes based on long-established practice').

In the 1980 revision, five new colours were introduced but no colours were deleted. Nevertheless, a survey at that time suggested that many of the colours were probably no longer used within the scope of the standard, and so 41 of the total 107 colours were designated as obsolescent with the intention to omit them completely from the next revision, and of these 40 were withdrawn.

In the 1988 revision, following consultation, 25 of the colours in the table of obsolescent colours in the previous edition were reinstated in the table of standard colours, whilst 14 colours previously listed as standard were declared to be obsolescent. Seven colours were deleted and seven new colours were added. All erroneous references were corrected and the names of four colours in the standard were changed as they were no longer appropriate, i.e. 267 Traffic green became 267 Deep chrome green, 368 Traffic yellow became 568 Apricot, 538 Post Office red became 538 Cherry, and 539 Red became 539 Currant red.

For the present revision it was decided that there should no longer be gloss and matt colours but that all colours would be at the same gloss level and this would be 'semi-matt' in line with other standards (e.g. BS 4800). It was also decided to declare no further colours obsolescent, however two colours previously declared obsolescent, 366 Light beige and 453 Shell pink, have been reinstated in the table of standard colours and all other colours declared obsolescent in the 1988 edition have been withdrawn. Five new colours have been added to the standard: 284 Spruce green; 315 Grapefruit; 380 Camouflage desert sand; 420 Dark camouflage desert sand; and 629 Dark camouflage grey.

An annex is included in this standard in order to help identify the use of particular colours. Annex A lists some major organizations that use colours from BS 381C. A large number of British Standards refer to the colours in BS 381C.

NOTE. This information was checked for accuracy before publication. Errors or omissions should be notified to BSI (Secretary to Technical Committee STI/14).

When colours are used for identification purposes, they should preferably be associated with other distinctive markings such as symbols, banding or wording, e.g. see BS 5378. Such additional markings may be essential to people with defective colour vision, who can often be helped also by a suitable choice of colours.

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Recommendations for surface colours for visual signalling have been published by the Commission International de l'Eclairage (CIE), (CIE Publication No. 39.2 *Recommendations for surface colours visual signalling* 2nd Edition (1983)) and hence many organizations, both national and international, can be expected to bring their relevant standards or specifications into conformity to them. BS 381C is the British Standard that is considered to be the most appropriate for implementing these recommendations in the interest of international coordination. Three colours, 262 Bold green, 363 Bold yellow and 564 Bold red were included in the 1988 revision to conform to these recommendations.

Other colours may be added to this standard from time to time if a well-defined and continuing need within the scope of the standard is shown to exist that cannot be met by the use of a colour already standardized. Any organization wishing to add a colour in this way should consult BSI (Secretary to Technical Committee STI/14) as early as possible, and preferably before any final decision is taken for the adoption of a particular colour.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

This document comprises a front cover, an inside front cover, pages i to iv blank, pages 1 to 16, an inside back cover and a back cover.

Specification

1 Scope

This British Standard specifies surface (opaque) colours for identification, coding and special purposes. Individual colour cards are available for colour matching and were used for the measurement of the colorimetric values given in table 1. This British Standard does not deal with the colours of lights nor of luminescent, translucent or retroreflecting materials.

NOTE. The small colour patches in this standard, arranged in order of hue and lightness, are produced in semi-matt finish and are intended to give a general indication of the colours in daylight. They should not be used for colour matching (see clause 5).

WARNING. When using the individual cards for the purpose of colour matching, it is essential to bear in mind that the relative appearance of the surface colours is affected by any differences in gloss and, more particularly, by the character of the light under which they are compared. Thus close matchings under one illuminant may not be close under others, a phenomenon resulting from dye or pigment difference and known as metamerism.

2 References

2.1 Normative references

This British Standard incorporates, by reference, provisions from specific editions of other publications. These normative references are cited at the appropriate points in the text and the publications are listed on the inside back cover. Subsequent amendments to, or revisions of, any of these publications apply to this British Standard only when incorporated in it by updating or revision.

2.2 Informative references

This British Standard refers to other publications that provide information or guidance. Editions of these publications current at the time of issue of this British Standard are listed on the inside back cover, but reference should be made to the latest editions.

3 Identification of colours

Each colour is identified by a three-digit reference number and a descriptive name. Both the number and the descriptive name shall be used to specify a colour.

The reference numbers have been allocated in accordance with the following basic system.

100 to 199 blue, turquoise 200 to 299 green 300 to 399 yellow, cream, buff 400 to 499 brown, pink 500 to 599 orange, red 600 to 699 grey 700 to 799 purple, violet

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4 Colours

Table 1 gives typical values for individual colour cards. Some cards may deviate slightly from these values, although the colours remain a satisfactory visual match.

Table 1 also contains colours for which specific uses have been identified, and from which selections for new applications shall be made.

The table gives the tristimulus values X, Y, Z, the chromaticity coordinates (x, y) and the CIE LAB values, calculated using the CIE Standard Illuminant D65 and the CIE 1964 10° Supplementary Standard Observer, with the specular component included.

NOTE 1. Colour patches that represent colours of high saturation, i.e. strong colours, are shown together on page 15. This has been done to help with the selection of suitable colours for signalling and coding.

NOTE 2. The colours in table 1 have had colorimetric values determined by the National Physical Laboratory using an abridged spectrophotometer with an integrating sphere coupled to an online data system.

5 Colour matching

Individual colour cards, approximately 150 mm \times 100 mm, are available to represent the colours specified in this standard and shall be used for visual colour matching purposes. Comparisons shall be made in good diffuse daylight or under an illuminant conforming to BS 950 : Part 1.

NOTE. The cards are available either singly or in a complete set. It should be noted that handling and storage of these cards may affect their appearance.

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BS 381C : 1996

Ref. No.	Name	Colorimetric values under CIE Standard Illuminant D65 and the CIE 1964 10 Supplementary Standard Observer, with the specular component included												
		X .	Y	Z	x	у	L*	a*	b*	Approxim reference		nsell		
101	Sky blue	29.284	35.269	35.634	0.2923	0.3520	65.96	-15.28	2.80	0.5BG	6.3	3.0		
103	Peacock blue	9.592	12.204	17.485	0.2442	0.3107	41.54	-15.02	-10.04	3.1B	3.7	4.1		
104	Azure blue	8.064	8.812	18.938	0.2252	0.2460	35.62	-2.61	-23.19	4.7PB	3.1	6.1		
105	Oxford blue	5.222	5.396	10.221	0.2506	0.2589	27.83	1.30	-15.77	6.2PB	2.2	4.4		
106	Royal blue	3.998	4.134	5.503	0.2932	0.3032	24.11	1.14	-5.15	7.4PB	1.9	1.3		
107	Strong blue	13.054	15.812	33.126	0.2106	0.2551	46.73	-12.19	-27.02	1.4PB	4.1	7.9		
108	Aircraft blue	6.980	6.796	17.683	0.2219	0.2160	31.34	5.51	-28.03	7.1PB	2.6	7.6		
109	Middle blue	8.476	10.308	20.341	0.2166	0.2635	38.39	-10.62	-21.12	0.4PB	3.3	6.1		
110	Roundel blue	7.094	7.013	16.464	0.2321	0.2294	31.84	4.51	-24.60	7.0PB	2.6	6.6		
112	Arctic blue	26.235	32.467	46.685	0.2489	0.3081	63.73	-17.83	-14.09	5.6B	6.0	5.3		
113	Deep Saxe blue	9.568	11.879	18.095	0.2420	0.3004	41.02	-13.00	-12.18	5.6B	3.7	4.2		
166	French blue	12.963	13.389	36.843	0.2051	0.2119	43.34	1.79	-37.73	6.2PB	3.8	10.4		
172	Pale roundel blue	40.079	44.297	66.074	0.2664	0.2944	72.43	- 5.90	-17.70	3.4PB	6.9	5.3		
175	Light French blue	18.446	20.723	46.652	0.2149	0.2415	52.65	-6.16	-33.16	4.5PB	4.8	9.3		
210	Sky	38.589	42.061	34.826	0.3342	0.3642	70.91	-4.08	12.40	4.7GY	6.9	1.9		
216	Eau-de-nil	37.395	43.994	28.274	0.3410	0.4012	72.23	-13.59	23.89	6.7GY	7.0	4.3		
217	Sea green	25.908	31.700	15.998	0.3520	0.4307	63.09	-16.46	30.32	6.7GY	6.1	5.8		
218	Grass green	13.055	17.545	8.216	0.3363	0.4520	48.94	-21.72	27.04	8.3GY	4.6	6.1		
220	Olive green	7.426	8.634	5.534	0.3439	0.3998	35.27	-7.06	13.95	5.6GY	3.2	3.1		
221	Brilliant green	9.710	13.431	7.037	0.3218	0.4451	43.41	-22.12	21.77	10.0GY	4.1	6.0		
223	Middle bronze green	7.108	7.919	5.955	0.3388	0.3774	33.81	-3.88	9.60	4.8GY	3.2	2.1		
224	Deep bronze green	5.719	6.370	5.375	0.3275	0.3648	30.33	-3.60	6.15	6.2GY	2.6	1.8		
225	Light Brunswick green	8.029	10.573	6.220	0.3235	0.4260	38.85	-16.86	17.17	9.4GY	3.6	4.8		
226	Middle Brunswick green	5.792	7.421	6.044	0.3008	0.3854	32.75	-13.19	7.38	2.5G	2.9	3.5		
227	Deep Brunswick green	5.086	6.198	5.732	0.2989	0.3642	29.91	-9.30	3.82	4.2G	2.6	2.7		
228	Emerald green	11.422	17.480	13.553	0.2690	0.4117	48.86	-32.62	11.48	5.7G	4.6	7.0		
241	Dark green	8.480	9.143	7.833	0.3331	0.3592	36.26	-1.64	6.51	2.3GY	3.3	1.2		
262	Bold green	12.075	18.991	12.947	0.2744	0.4315	50.68	-35.83	16.13	4.0G	4.7	7.9		
267	Deep chrome green	8.167	10.675	8.716	0.2964	0.3874	39.03	-16.36	8.26	3.4G	3.6	3.9		
280	Verdigris green	18.250	24.977	19.432	0.2913	0.3986	57.05	-26.19	12.80	3.9G	5.4	5.9		
283	Aircraft grey green	18.045	20.637	16.699	0.3258	0.3726	52.55	-7.86	10.61	8.0GY	5.0	2.4		
284	Spruce green	13.407	14.566	11.827	0.3369	0.3660	45.03	-2.58	9.34	2.4GY	4.2	1.6		
285	NATO green	8.548	9.162	7.646	0.3371	0.3613	36.29	-1.20	7.24	0.1GY	3.3	1.3		
298	Olive drab	7.303	7.863	6.062	0.3440	0.3704	33.70	-1.46	8.94	0.9GY	3.0	1.8		
309	Canary yellow	56.186	57. 94 4	8.745	0.4573	0.4716	80.71	3.14	80.03	5.9Y	8.1	11.6		
310	Primrose	59.176	63.538	21.367	0.4107	0.4410	83.73	-2.55	55.15	8.0Y	8.4	7.8		
315	Grapefruit	62.183	64.895	22.830	0.4148	0.4329	84.43	1.54	53.76	5.6Y	8.4	7.7		
320	Light brown	19.102	17.425	7.794	0.4310	0.3932	48.79	13.85	28.26	8.2YR	4.7	5.3		
337	Very dark drab	7.924	8.331	7.236	0.3373	0.3546	34.66	0.24	5.94	7.3Y	3.1	1.0		
352	Pale cream	59.162	61.083	34.019	0.3835	0.3960	82.42	3.03	33.32	4.1Y	8.2	4.9		
353	Deep cream	62.969	62.740	26.198	0.4145	0.4130	83.31	8.21	46.21	2.8Y	8.3	7.1		

2

Ref. No.	Name	Colorimetric values under CIE Standard Illuminant D65 and the CIE 1964 10° Supplementary Standard Observer, with the specular component included												
		X	Y	Z	x	y	 L*	a*	b*	Approxim reference		insell		
355	Lemon	53.250	50.688	7.431	0.4781	0.4551	76.49	13.87	77.33	2.9Y	7.7	12.0		
356	Golden yellow	52.005	46.855	6.589	0.4932	0.4443	74.10	20.95	76.44	0.7Y	7.4	12.6		
358	Light buff	47.869	45.750	20.397	0.4198	0.4013	73.38	12.87	39.11	0.1Y	7.3	6.6		
361	Light stone	37.527	37.029	21.196	0.3919	0.3867	67.30	8.07	27.14	0.9Y	6.6	4.5		
363	Bold yellow	59.014	56.532	6.964	0.4817	0.4614	79.92	13.49	85.00	3.0Y	8.0	13.2		
365	Vellum	58.646	61.954	48.027	0.3478	0.3674	82.89	-0.22	17.51	5.9Y	8.2	2.3		
366	Light beige	56.778	57.883	37.094	0.3741	0.3814	80.67	4.76	26.31	2.7Y	8.0	4.0		
367	Manilla	63.570	65.552	48.500	0.3579	0.3691	84.77	3.29	20.25	2.5Y	8.4	2.9		
369	Biscuit	63.072	63.099	41.648	0.3758	0.3760	83.50	7.63	25.65	0.4Y	8.3	4.1		
380	Camouflage desert sand	31.774	31.213	24.829	0.3618	0.3554	62.69	8.14	12.88	6.0YR	6.1	2.6		
384	Light straw	53.952	55.899	38.005	0.3649	0.3781	79.56	2.46	23.24	3.8Y	7.9	3.4		
388	Beige	48.042	48.740	31.973	0.3731	0.3786	75.29	5.13	23.81	1.9Y	7.4	3.7		
389	Camouflage beige	29.202	30.655	24.395	0.3466	0.3639	62.22	0.54	12.79	4.8Y	6.0	1.8		
411	Middle brown	10.985	10.010	5.548	0.4138	0.3771	37.86	11.60	18.35	7.0YR	3.6	3.7		
412	Dark brown	7.512	6.959	5.299	0.3800	0.3520	31.71	9.09	8.89	3.5YR	2.8	2.5		
414	Golden brown	19.081	16.348	6.142	0.4590	0.3933	47.43	19.62	32.28	6.0YR	4.6	6.7		
420	Dark camouflage desert sand	24.115	23.644	18.357	0.3647	0.3576	55.73	7.62	12.64	6.7YR	5.4	2.5		
436	Dark camouflage brown	7.600	7.615	6.910	0.3435	0.3442	33.17	3.66	4.61	6.4YR	3.0	1.0		
445	Venetian red	12.115	9.512	5.444	0.4475	0.3514	36.95	23.61	17.26	0.0YR	3.4	5.9		
447	Salmon pink	46.455	41.880	27.855	0.3998	0.3604	70.79	20.10	22.05	2.1YR	6.9	5.7		
453	Shell pink	59.667	59.251	58.940	0.3355	0.3331	81.43	8.53	4.19	4.9R	8.0	2.6		
454	Pale roundel red	39.486	34.705	31.466	0.3737	0.3285	65.52	22.02	7.67	6.8R	6.4	4.7		
499	Service brown	7.700	7.606	5.940	0.3624	0.3580	33.15	4.68	8.51	8.7YR	3.0	1.8		
537	Signal red	22.506	14.046	4.938	0.5424	0.3385	44.30	49.68	32.29	7.5R	4.2	13.4		
538	Cherry	16.580	10.643	5.098	0.5130	0.3293	38.97	42.66	22.34	6.1R	3.6	11.2		
539	Currant red	19.082	11.997	5.202	0.5260	0.3307	41.21	46.42	25.71	6.3R	3.9	12.3		
541	Maroon	5.357	5.020	4.841	0.3520	0.3299	26.79	7.42	2.58	5.7R	2.2	1.8		
542	Ruby	12.663	9.012	10.573	0.3927	0.2795	36.01	31.42	-2.71	7.0RP	3.2	8.3		
557	Light orange	35.816	27.078	6.195	0.5184	0.3919	59.05	37.97	52.09	2.9YR	5.8	11.8		
564	Bold red	22.107	13.650	4.685	0.5466	0.3375	43.73	50.31	32.55	7.2R	4.2	13.2		
568	Apricot	39.675	32.616	6.335	0.5046	0.4148	63.85	29.81	59.79	6.5YR	6.3	11.6		
592	International orange	27.081	17.973	5.092	0.5400	0.3584	49.46	47.12	40.46	9.1R	4.8	12.7		
593	Rail red	28.424	17.983	5.106	0.5518	0.3491	49.48	52.42	40.41	8.3R	4.8	14.1		
526	Camouflage grey	30.723	33.143	36.529	0.3060	0.3301	64.28	-2.59	-1.24	2.1B	6.2	0.7		
527	Light aircraft grey	40.955	43.507	43.847	0.3192	0.3391	71.90	-0.90	3.13	4.2GY	7.0	0.5		
529	Dark camouflage grey	17.651	18.969	22.786	0.2971	0.3193	50.65	-1.78	-4.41	1.5PB	4.7	1.4		
530	French grey	30.073	32.741	29.430	0.3260	0.3549	63.95	-3.62	7.90	5.6GY	6.2	1.3		
31	Light grey	28.889	31.684	31.956	0.3122	0.3424	63.08	-4.41	2.78	3.3G	6.1	1.0		
32	Dark Admiralty grey	14.142	15.262	17.695	0.3003	0.3240	45.99	-2.03	-2.80	7.7B	4.3	0.9		
37	Medium sea grey	25.566	27.577	31.515	0.3020	0.3257	59.51	-2.42	-2.77	7.7B	5.7	1.0		
38	Dark sea grey	13.841	14.744	17.379	0.3011	0.3208	45.28	-0.87	-3.36	2.6PB	4.2	1.0		

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Ref. No.	Name	Colorimetric values under CIE Standard Illuminant D65 and the CIE 1964 10' Supplementary Standard Observer, with the specular component included											
		X	Y	Z	x	y	L*	a*	b*	Approxim reference		nsell	
642	Night	4.644	4.913	5.379	0.3109	0.3289	26.48	-0.18	-0.50	8.9B	2.1	0.2	
676	Light weatherwork grey	35.690	38.763	43.943	0.3014	0.3274	68.58	-3.54	-2.70	5.7B	6.6	1.2	
677	Dark weatherwork grey	14.207	15.189	18.476	0.2968	0.3173	45.89	-1.20	~4.56	2.3PB	4.2	1.4	
692	Smoke grey	21.667	24.437	33.045	0.2738	0.3087	56.52	-6.90	-10.02	9.8PB	5.3	3.3	
693	Aircraft grey	21.172	22.981	24.209	0.3097	0.3362	55.05	-2.92	0.75	0.4BG	5.2	0.7	
694	Dove grey	24.540	26.458	26.811	0.3154	0.3400	58.47	-2.34	2.42	0.9G	5.6	0.6	
697	Light Admiralty grey	42.917	48.244	52.541	0.2987	0.3357	74.98	-8.24	-0.78	7.0BG	7.3	1.6	
796	Dark violet	11.711	9.918	17.487	0.2994	0.2536	37.70	17.56	-16.67	6.5P	3.4	6.2	
797	Light violet	38.036	36.812	50.962	0.3023	0.2926	67.14	10.42	-12.71	5.6P	6.4	4.9	



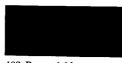
172 Pale roundel blue



112 Arctic blue



101 Sky blue



103 Peacock blue



113 Deep Saxe blue



104 Azure blue





110 Roundel blue



105 Oxford blue



See also 'strong' colours on page 15.

216 Eau-de-Nil







283 Aircraft grey green



284 Spruce green

210 Sky



267 Deep chrome green



225 Light Brunswick green







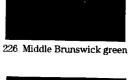




298 Olive drab



223 Middle bronze green







See also 'strong' colours on page 15.

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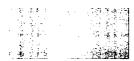
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315 Grapefruit



310 Primrose



365 Vellum



352 Pale cream



384 Light straw



389 Camouflage beige



353 Deep cream

367 Manilla



366 Light beige

388 Beige

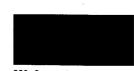
361 Light stone

420 Dark camouflage desert sand



358 Light buff

369 Biscuit

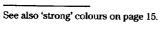


380 Camouflage desert sand

320 Light brown



499 Service brown



337 Very dark drab

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797 Light violet



453 Shell pink



447 Salmon pink

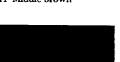




414 Golden brown



411 Middle brown



436 Dark camouflage brown



445 Venetian red



542 Ruby



412 Dark brown



See also 'strong' colours on page 15.

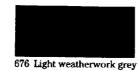
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627 Light aircraft grey



626 Camouflage grey

637 Medium sea grey

692 Smoke grey



697 Light Admiralty grey

693 Aircraft grey



630 French grey



631 Light grey



694 Dove grey



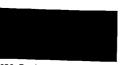
677 Dark weatherwork grey



629 Dark camouflage grey







638 Dark sea grey



642 Night

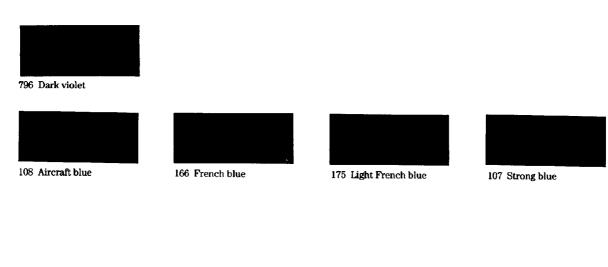
See also 'strong' colours on page 15.

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228 Emerald green



262 Bold green



221 Brilliant green

355 Lemon



218 Grass green



309 Canary yellow



568 (368) Apricot



363 Bold yellow



557 Light orange



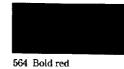
592 International orange



537 Signal red



593 Rail red



539 Currant red







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BS 381C: 1996

Annex

Annex A (informative)

Major organizations using colours from BS 381C

NOTE. This table has been prepared in consultation with the organizations concerned, but it is not necessarily comprehensive or completely up-to-date. It will be revised from time to time, and information regarding additions or deletions should be directed to BSI (secretary to Technical Committee STI/14).

Table A.1 Major organizations using colours from BS 381C						
Organization	Colours adopted					
British Gas	309, 355, 411, 632, 796					
British Rail	108, 166, 216, 218, 221, 356, 366, 411, 447, 537, 557, 593, 627, 693					
Electricity Association	218, 355, 537, 632					
Department of Transport	109, 225, 226, 310, 353, 355, 411, 537, 557, 631, 693					
Ministry of Defence	101, 104, 105, 106, 110, 113, 166, 172, 175, 216, 218, 220, 221, 224, 225, 226, 241, 267, 284, 285, 298, 309, 315, 320, 355, 356, 358, 361, 365, 380, 389, 411, 420, 445, 447, 453, 454, 499, 537, 538, 557, 592, 626, 627, 629, 631, 632, 637, 638, 676, 677, 693, 697, 796					
Post Office	356, 537 (signs), 538 (street furniture), 539 (vehicles)					

List of references (see clause 2)

Normative references

BSI standards publications

BRITISH STANDARDS INSTITUTION, London

BS 950 : BS 950 : Part 1 : 1967 Specification for artificial daylight for the assessment of colour Illuminant for colour matching and colour appraisal

Informative references

BSI standards publications

BRITISH STANDARDS INSTITUTION, London

BS 4800 : 1989 BS 5252 : 1976 BS 5378 : Schedule of paint colours for building purposes Framework for colour coordination for building purposes Safety signs and colours

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