

GUOJIA JIANZHUBIAOZHUNSHENJI 02J503-1



02J503-1

常用建筑色

中国建筑标准设计研究所出版

常用建筑色

批准部门 中华人民共和国建设部

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说 明

1 前言

色彩学是一门多学科的研究领域,包括生理学、心理学、物理学、计量学等。建筑色彩是建筑物和建筑物配件外观的重要属性,也是作为塑造建筑形象 and 美化环境的一个重要手段。

在建筑设计、建筑施工中,颜色的运用、颜色的控制和标定均需准确,并应建立在科学基础上。

为了更简便地对颜色进行标定,国际上已建立了多种颜色体系,如美国孟塞尔颜色体系,瑞典自然色体系(NCS),美国光学学会均匀色空间体系(OA-UCS),德国工业标准体系(DIN),奥斯瓦尔德体系等。

我国科学家在研究了各种颜色体系的优缺点和在中国人视觉实验基础上建立了中国颜色体系,并形成国家标准GB/T15608-1995《中国颜色体系》和实物标准样品《中国颜色体系样册》。中国颜色体系用颜色的三属性色调、明度、彩度描述和标定颜色,很容易被人理解和接受。

为了对建筑色彩进行标定,使颜色的描述科学、直观、准确,并适应国际交流,本图集的编制采用了中国颜色体系的标记方法,并参照《中国颜色体系样册》,选出适合建筑、装修设计的常用色彩等共526块色样片,印刷成色样,便于使用者从中选用。

2 编制依据

本图集依据下列文件、标准:

建设部建设[2000]110号文件《二000年国家建筑标准设计编制工作计划》

中国颜色体系 GB/T 15608-1995

颜色术语 GB/T 5698-2001

3 适用范围

3.1 本图集适用于建筑设计、环境设计、装修设计、建筑施工

以及建筑材料等涉及建筑工程中用颜色表示的各个方面。

3.2 本图集供设计、施工人员及建筑材料、涂料等生产厂使用。

4 术语

4.1 色 color

光作用于人眼引起除空间属性以外的视觉特性。

用色名或色的三属性来表示的视觉特性。

4.2 色调 hue

颜色的三属性之一,用以表示红、黄、绿、蓝、紫等颜色的特征。

色调的符号为H。

4.3 明度 value

表示物体表面颜色明亮程度的视知觉特性值,以绝对白色和绝对黑色为基准给予分度。

明度的符号为V。

4.4 彩度 chroma

表示物体表面浓淡的视知觉特性值,用距离等明度无彩点的距离给予分度。

彩度的符号为C。

5 图集内容及色彩的表示方法

本图集选取了526种常用建筑色制成实物颜色样片供使用,并规定颜色样片用中国颜色体系颜色标号、印刷原色浓度标号及常用建筑色彩颜色编号表示。

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5.1 图集的颜色样片包括无彩色系和有彩色系。

5.1.1 无彩色系有白色、黑色和由白色及黑色按不同比例混合成的灰色组成,统称中性色。无彩色用N加上样片的明度值表示,标注为N_v。图集中无彩色样片的最高明度为8.25,最低明度为3.0。

5.1.2 有彩色系由特定的色调、明度、彩度的色样片组成。

1 颜色标号是用颜色的色调(H)、明度(V)和彩度(C)三属性对颜色进行编码,标注为H V / C (色调 明度/彩度)。

2 色调由红(R)、黄(Y)、绿(G)、蓝(B)、紫(P)五个主色和黄红(YR)绿黄(GY)、蓝绿(BG)、紫蓝(PB)、红紫(RP)五个中间色共同组成10个基本色。每个色调可再细分10份,分别以数字加在每种色调的字母前,如10R、5YR等。其中各种颜色的数字为5的色调为该色调的纯正色调,如5R、5Y、5G、5B、5P、5YR、5GY、5BG、5PB、5RP。

3 绝对反射比为0的颜色是理想的黑色,其明度为0;绝对反射比为100%的颜色是理想的白色,其明度为10。

明度以数字表示,并按10进制细分。

4 颜色越接近光谱色,或物体的颜色越饱和,彩度值越高,中性无彩色的彩度为0。彩度值用数字表示,并以10进细分。本图集中最高彩度为10.4,最低彩度为1。

5 颜色标号标记法是指颜色按色调、明度、彩度顺序用字母、数字、符号表示,明度和彩度之间用符号“/”间隔开。如色调5RY、明度6、彩度8的颜色标号标记为5RY 6/8。

5.2 印刷原色浓度标号按C、M、Y、K顺序表示,其中C(Cyan)代表青、M(Magenta)代表品红、Y(Yellow)代表黄、K(Black)代表黑。如C0M5Y10K5、C100M0Y100K5等。

5.3 常用建筑色彩的颜色编号

常用的建筑色彩按一定方式排列并规定编号。

5.3.1 常用建筑色彩的排列

选取526种建筑上常用的颜色一定规律排列。

5.3.2 常用建筑色彩的颜色编号

从每一页的第一行、第一列开始,顺序分别以数字1、2、3、4、5等标记。每种颜色的标号根据所在的页数、行数和列数确定,如第5页、第2行、第3列的颜色编号为5-2-3。

5.4 颜色标号、印刷原色浓度标号与常用建筑色编号之间的对应关系见颜色索引。

6 使用方法

6.1 本图集前14页(第1页~第14页)为常用建筑颜色编号索引,第15页~第71页有缝纫眼线条,为可撕式。可撕的颜色是从颜色索引中选取的常用颜色,为285种,颜色编号与颜色索引中的颜色编号相同。

6.2 常用建筑颜色各有编号,使用时使用者可在图纸上注明其编号或颜色标号,或撕下某一张编号颜色,贴在图纸上,以便双方以此颜色作为依据。

6.3 本图集另备有折叠袖珍本(不可撕),便于使用者携带现场工作。

6.4 注意使用时不要用手触摸颜色样片表面,避免阳光或强光照射颜色样片表面,请在避光和干燥环境下保存。

6.5 本图集的使用为叁年,逾期颜色样片的量值将有不同程度的改变,不宜再使用。

6.6 工程设计中选用的最终颜色应由设计人员按实际情况确定。

6.7 由于印刷技术问题,本图集中所标注的中国颜色体系颜色标号与对应的颜色样片的实际值存在一定误差,请谅解。

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1-1-1 0.6GY 7/8.8 C10M0Y100K15	1-1-2 1.3GY 7/8.4 C10M0Y90K15	1-1-3 1.3GY 7/8.4 C10M0Y80K10	1-1-4 1.3GY 7.5/7.6 C7M0Y70K10	1-1-5 1.3GY 7.5/6.4 C5M0Y60K10	1-1-6 1.3GY 8.5/6 C5M0Y50K8	1-1-7 0.6GY 8/4.8 C3M0Y40K5	1-1-8 10Y 8.5/3.6 C3M0Y30K3	1-1-9 10Y 9/2 C1M0Y20K0	1-1-10 8.8Y 9/1.4 C0M0Y10K0
1-2-1 1.9Y 6.5/7.8 C35M20Y95K0	1-2-2 1.9GY 7/7.6 C30M15Y85K0	1-2-3 1.3GY 7/7.2 C25M15Y75K0	1-2-4 0.6GY 7.5/6 C15M10Y60K0	1-2-5 10Y 8/4.4 C10M8Y45K0	1-2-6 10Y 8.5/3.2 C5M3Y30K0	1-2-7 10Y 9/2.8 C3M0Y25K0	1-2-8 C0M0Y0K0	1-2-9 C0M0Y0K0	1-2-10 C0M0Y0K0
1-3-1 1.9GY 6/6 C25M15Y85K25	1-3-2 1.9GY 6.5/6 C20M10Y75K20	1-3-3 2.5GY 6.5/5.2 C20M10Y65K15	1-3-4 1.3GY 7/4.8 C15M8Y55K10	1-3-5 1.3GY 7.5/4 C16M5Y45K10	1-3-6 1.3GY 8/4 C8M3Y40K5	1-3-7 1.9GY 8.5/3.2 C8M0Y30K0	1-3-8 C0M0Y0K0	1-3-9 C0M0Y0K0	1-3-10 C0M0Y0K0
1-4-1 2.5GY 5.5/4.8 C35M25Y75K25	1-4-2 1.9GY 6/6 C35M25Y90K15	1-4-3 1.9GY 6.5/6.8 C25M15Y85K10	1-4-4 1.3GY 7/7.2 C20M10Y85K8	1-4-5 1.3GY 7.5/6.4 C15M5Y65K5	1-4-6 C0M0Y0K0	1-4-7 C0M0Y0K0	1-4-8 C0M0Y0K0	1-4-9 C0M0Y0K0	1-4-10 C0M0Y0K0
1-5-1 3.8GY 5/3.6 C40M30Y70K15	1-5-2 3.1GY 5.5/3.6 C35M25Y65K30	1-5-3 2.5GY 5.5/3.2 C30M25Y60K25	1-5-4 2.5GY 6/3.2 C30M20Y55K20	1-5-5 3.1GY 6/3.2 C25M15Y50K20	1-5-6 1.9GY 6.5/2.4 C20M15Y40K15	1-5-7 1.9GY 7/2.4 C15M10Y35K10	1-5-8 1.9GY 7.5/2.4 C10M5Y30K10	1-5-9 2.5GY 8/2.4 C10M3Y25K5	1-5-10 1.9GY 8.5/2 C5M0Y20K3

2-1-1 5Y 7.5/9.2 C0M10Y100K0	2-1-2 5.6Y 8/9.6 C0M19Y90K0	2-1-3 5.6Y 8/8.8 C0M18Y80K0	2-1-4 6.9Y 8.5/7.2 C0M7Y70K0	2-1-5 6.9Y 8.5/6.4 C0M6Y60K0	2-1-6 6.9Y 8.5/5.2 C0M5Y50K0	2-1-7 6.9Y 8.5/4 C0M4Y40K0	2-1-8 6.9Y 9/2.8 C0M3Y30K0	2-1-9 7.5Y 9/1.8 C0M2Y20K0	2-1-10 8.1Y 9/1.2 C0M2Y10K0
2-2-1 4.4Y 7/8 C8M20Y95K5	2-2-2 4.4Y 7/7.6 C7M20Y85K5	2-2-3 4.4Y 7.5/7.6 C5M15Y80K5	2-2-4 5Y 7.5/6 C4M15Y65K5	2-2-5 5.6Y 8/5.2 C3M10Y55K5	2-2-6 5.6Y 8/4.8 C2M8Y50K5	2-2-7 5.6Y 8.5/3.2 C0M5Y35K5	2-2-8 6.9Y 8.5/2.8 C0M3Y30K5	2-2-9 C0M0Y0K0	2-2-10 C0M0Y0K0
2-3-1 5.6Y 6.5/6.4 C15M25Y85K15	2-3-2 5.6Y 6.5/6 C15M20Y75K10	2-3-3 6.9Y 7/4.4 C15M15Y60K10	2-3-4 5.6Y 7/4 C10M15Y50K10	2-3-5 3.8Y 8/2.8 C10M10Y35K5	2-3-6 7.5Y 8.5/2 C10M5Y25K0	2-3-7 C0M0Y0K0	2-3-8 C0M0Y0K0	2-3-9 C0M0Y0K0	2-3-10 C0M0Y0K0
2-4-1 5.6Y 5.5/5.6 C20M30Y85K25	2-4-2 5.6Y 6/5.6 C15M25Y80K20	2-4-3 6.9Y 6.5/6.4 C15M20Y80K15	2-4-4 5.6Y 7/6.8 C13M20Y75K5	2-4-5 5.6Y 7.5/7.6 C10M15Y75K0	2-4-6 C0M0Y0K0	2-4-7 C0M0Y0K0	2-4-8 C0M0Y0K0	2-4-9 C0M0Y0K0	2-4-10 C0M0Y0K0
2-5-1 5.6Y 5/4.4 C30M40Y80K35	2-5-2 5.6Y 5.5/4.8 C25M35Y75K25	2-5-3 4.4Y 5.5/4 C20M35Y65K25	2-5-4 5.6Y 6/4 C20M30Y60K20	2-5-5 3.8Y 6.5/3.6 C15M25Y50K15	2-5-6 3.8Y 7/3.6 C10M20Y45K15	2-5-7 4.0Y 7/2.8 C10M15Y35K10	2-5-8 3.1Y 8/2.4 C5M10Y25K5	2-5-9 2.5Y 8.5/2 C3M8Y20K3	2-5-10 5Y 9/1.6 C0M5Y15K0

3-1-1	4.4Y 7.5/9.2 COM25Y80K0	3-1-2	4.4Y 7.5/8.8 COM25Y75K0	3-1-3	3.1Y 7.5/7.6 COM20Y65K0	3-1-4	3.1Y 8/7.2 COM18Y60K0	3-1-5	3.1Y 8/6 COM15Y50K0	3-1-6	3.1Y 8/5.2 COM13Y45K0	3-1-7	2.5Y 8.5/3.6 COM10Y35K0	3-1-8	3.1Y 8.5/2.8 COM5Y25K0	3-1-9	4.4Y 9/2.4 COM5Y20K0	3-1-10	3.8Y 9/1.6 COM5Y15K0
3-2-1	3.2Y 6/6.4 C10M35Y85K10	3-2-2	3.8Y 6.5/6.4 C3M30Y75K10	3-2-3	4.4Y 6.5/6.4 C5M25Y70K10	3-2-4	4.4Y 7/6 C3M20Y60K5	3-2-5	5.6Y 7.5/6 C3M15Y50K5	3-2-6	2.5Y 8/4.8 C3M15Y45K0	3-2-7	2.5Y 8.5/3.6 COM10Y35K0	3-2-8	3.8Y 8.5/3.2 COM5Y30K0	3-2-9	COM0Y0K0	3-2-10	COM0Y0K0
3-3-1	1.9Y 5/5.2 C20M45Y90K20	3-3-2	3.1Y 5.5/4.8 C15M35Y75K20	3-3-3	3.1Y 6/5.2 C10M30Y65K15	3-3-4	4.4Y 6.5/4 C8M20Y50K15	3-3-5	3.1Y 7/3.2 C3M15Y40K10	3-3-6	2.5Y 8/3.2 COM5Y30K5	3-3-7	COM0Y30K0	3-3-8	COM0Y0K0	3-3-9	COM0Y0K0	3-3-10	COM0Y0K0
3-4-1	1.9Y 5/4 C30M50Y95K25	3-4-2	1.9Y 5.5/4.8 C25M45Y85K15	3-4-3	2.5Y 6/5.6 C15M35Y80K15	3-4-4	2.5Y 6.5/6.8 C10M30Y75K5	3-4-5	2.5Y 7/6.8 C5M25Y70K3	3-4-6	COM0Y0K0	3-4-7	COM0Y0K0	3-4-8	COM0Y0K0	3-4-9	COM0Y0K0	3-4-10	COM0Y0K0
3-5-1	10YR 4/3.6 C15M60Y100K35	3-5-2	10YR 4.5/4.8 C30M55Y90K30	3-5-3	10YR 5/5.2 C30M50Y85K25	3-5-4	2.5Y 5.5/5.2 C25M40Y75K20	3-5-5	1.3Y 6/5.2 C20M35Y65K15	3-5-6	1.3Y 6.5/5.6 C15M30Y60K10	3-5-7	1.3Y 7/4.8 C15M25Y50K5	3-5-8	1.9Y 7.5/3.6 C10M20Y45K3	3-5-9	2.5Y 8/2.8 C5M15Y35K3	3-5-10	2.5Y 8.5/2.8 C5M10Y30K0

4-1-1	8.8YR 7/9.6 C0M35Y85K0	4-1-2	9.4YR 7/9.2 C0M30Y75K0	4-1-3	9.4YR 7.5/8.8 C0M28Y70K0	4-1-4	9.4YR 7.5/7.6 C0M25Y60K0	4-1-5	9.4YR 8/6.8 C0M20Y50K0	4-1-6	9.4YR 8.5/6 C0M15Y40K0	4-1-7	8.8YR 8/5.2 C0M13Y35K0	4-1-8	0.6Y 8.5/3.6 C0M10Y25K0	4-1-9	9.4YR 8.5/2.4 C0M5Y15K0	4-1-10	0.6Y 9/2 C0M3Y10K0
4-2-1	9.4YR 6/8.4 C3M40Y90K5	4-2-2	10YR 6.5/8 C3M35Y80K5	4-2-3	0.6Y 6.5/7.6 C3M30Y70K5	4-2-4	0.6Y 7/6.8 C3M25Y60K5	4-2-5	9.4YR 7.5/5.6 C3M20Y45K0	4-2-6	9.4YR 7.5/3.6 C3M15Y35K0	4-2-7	2.5Y 8/3.2 C3M10Y30K0	4-2-8	1.9Y 8.5/2.8 C3M5Y20K0	4-2-9	C0M0Y0K0	4-2-10	C0M0Y0K0
4-3-1	8.8YR 5.5/7.2 C15M50Y95K10	4-3-2	10YR 6/6.8 C10M40Y75K10	4-3-3	10YR 6.5/5.6 C10M30Y60K10	4-3-4	9.4YR 7/4.4 C3M20Y40K10	4-3-5	9.4YR 7.5/2.8 C3M10Y25K10	4-3-6	8.8YR 8/2.4 C0M3Y15K10	4-3-7	C0M0Y0K0	4-3-8	C0M0Y0K0	4-3-9	C0M0Y0K0	4-3-10	C0M0Y0K0
4-4-1	9.4YR 5/6 C25M55Y95K15	4-4-2	9.4YR 5/6.4 C20M50Y90K15	4-4-3	10YR 5.5/7.2 C10M45Y95K15	4-4-4	8.8YR 6/8 C3M45Y95K10	4-4-5	9.4YR 6.5/7 C3M35Y70K5	4-4-6	C0M0Y0K0	4-4-7	C0M0Y0K0	4-4-8	C0M0Y0K0	4-4-9	C0M0Y0K0	4-4-10	C0M0Y0K0
4-5-1	6.3YR 4/4.4 C35M70Y100K30	4-5-2	7.5YR 4.5/4.8 C30M65Y90K25	4-5-3	8.8YR 5/5.2 C25M55Y80K20	4-5-4	8.8YR 5.5/4.8 C25M50Y70K15	4-5-5	9.4YR 6/4.8 C20M40Y60K10	4-5-6	8.8YR 6.5/4.8 C15M35Y50K5	4-5-7	9.4YR 7/3.6 C13M25Y40K3	4-5-8	7.5YR 7.5/3.2 C8M20Y30K3	4-5-9	10YR 8/5.6 C5M10Y20K3	4-5-10	6.3YR 8/2.4 C3M10Y15K3

5-1-1 5YR 6/6.6 C0M50Y95K0	5-1-2 6.5YR 6.5/9.2 C0M45Y85K0	5-1-3 6.9YR 7/8.8 C0M40Y80K0	5-1-4 7.5YR 7/8.4 C0M35Y70K0	5-1-5 8.8YR 7.5/7.6 C0M30Y60K0	5-1-6 9.4YR 7.5/6 C0M25Y50K0	5-1-7 10YR 8/5.2 C0M20Y45K0	5-1-8 0.6Y 8/4.4 C0M15Y35K0	5-1-9 0.6Y 8.5/4 C0M10Y30K0	5-1-10 10YR 8.5/3.2 C0M8Y20K0
5-2-1 6.9YR 5.5/6.8 C8M50Y90K10	5-2-2 6.9YR 6/7.2 C5M45Y80K8	5-2-3 8.1YR 6.5/6.8 C5M35Y65K5	5-2-4 9.4YR 7/5.6 C5M25Y30K5	5-2-5 8.1YR 7.5/5 C5M20Y40K0	5-2-6 8.8YR 8/3.2 C5M10Y25K0	5-2-7 9.4YR 8.5/2.8 C3M5Y30K0	5-2-8 C0M0Y0K0	5-2-9 C0M0Y0K0	5-2-10 C0M0Y0K0
5-3-1 4.4YR 5/6.4 C15M65Y90K10	5-3-2 5.6YR 5.5/6.8 C13M55Y80K8	5-3-3 7.5YR 6/6.8 C10M45Y70K5	5-3-4 7.5YR 7/6.4 C10M35Y55K0	5-3-5 8.1YR 7.5/3.6 C5M20Y40K0	5-3-6 8.8YR 8/2.8 C5M15Y30K0	5-3-7 C0M0Y0K0	5-3-8 C0M0Y0K0	5-3-9 C0M0Y0K0	5-3-10 C0M0Y0K0
5-4-1 3.1YR 4.5/5.2 C20M75Y100K25	5-4-2 3.1YR 5/6.4 C15M70Y95K15	5-4-3 5.6YR 5.5/6.8 C10M65Y95K10	5-4-4 5YR 6/7.6 C5M60Y90K5	5-4-5 5.6YR 6.5/8.8 C3M50Y85K0	5-4-6 C0M0Y0K0	5-4-7 C0M0Y0K0	5-4-8 C0M0Y0K0	5-4-9 C0M0Y0K0	5-4-10 C0M0Y0K0
5-5-1 3.8YR 4.5/4 C10M75Y100K35	5-5-2 3.8YR 4.5/4.4 C25M75Y95K30	5-5-3 5.6YR 5/4.8 C25M65Y90K25	5-5-4 7.5YR 5/5.2 C20M60Y85K20	5-5-5 8.1YR 5.5/5.6 C20M50Y75K15	5-5-6 10YR 6/5.6 C15M40Y70K13	5-5-7 10YR 6.5/6 C10M35Y65K10	5-5-8 0.6Y 7/6.4 C10M25Y60K5	5-5-9 1.3Y 7.5/6.8 C10M25Y60K0	5-5-10 8.8YR 8/5.6 C3M20Y45K0

6-1-1	4.4YR 6.5/2.2 C0M55Y90K0	6-1-2	6.9YR 7/9.2 C0M45Y80K0	6-1-3	7.5YR 7/8.8 C0M40Y75K0	6-1-4	8.1YR 7.5/8 C0M35Y65K0	6-1-5	8.1YR 7.5/7.2 C0M30Y55K0	6-1-6	8.8YR 8/6.4 C0M25Y45K0	6-1-7	8.8YR 8.5/5.2 C0M15Y35K0	6-1-8	9.4YR 8.5/3.6 C0M10Y30K0	6-1-9	8.8YR 8.5/3.2 C0M8Y25K0	6-1-10	2.5Y 9/2.4 C0M5Y15K0
6-2-1	6.3YR 5.5/7.6 C10M60Y90K5	6-2-2	8.1YR 6/7.6 C10M50Y80K5	6-2-3	7.5YR 6.5/7.6 C5M45Y70K5	6-2-4	7.5YR 6.5/7.2 C5M40Y60K3	6-2-5	9.4YR 7/5.2 C5M30Y50K3	6-2-6	8.1YR 7.5/4.8 C5M20Y35K3	6-2-7	8.1YR 8/3.6 C3M15Y30K3	6-2-8	9.4YR 8/2.8 C3M10Y25K3	6-2-9	C0M0Y0K0	6-2-10	C0M0Y0K0
6-3-1	7.5YR 5/6.8 C15M60Y95K15	6-3-2	8.1YR 5.5/6.8 C10M50Y80K15	6-3-3	9.4YR 6/6 C10M40Y65K10	6-3-4	8.1YR 6.5/4.8 C8M30Y45K10	6-3-5	8.1YR 7/3.6 C5M20Y35K8	6-3-6	6.3YR 8/2.8 C5M15Y20K0	6-3-7	C0M0Y0K0	6-3-8	C0M0Y0K0	6-3-9	C0M0Y0K0	6-3-10	C0M0Y0K0
6-4-1	6.3YR 4.5/5.6 C25M65Y95K20	6-4-2	7.5YR 5/6.4 C15M55Y85K15	6-4-3	6.3YR 6/7.6 C5M50Y75K5	6-4-4	8.1YR 7/8.4 C3M40Y70K0	6-4-5	C0M0Y0K0	6-4-6	C0M0Y0K0	6-4-7	C0M0Y0K0	6-4-8	C0M0Y0K0	6-4-9	C0M0Y0K0	6-4-10	C0M0Y0K0
6-5-1	10R 3.5/3.2 C30M80Y100K50	6-5-2	4.4YR 4/3.6 C25M70Y90K40	6-5-3	4.4YR 4.5/4 C25M65Y80K35	6-5-4	6.3YR 5/4 C20M55Y70K30	6-5-5	5.6YR 5.5/4 C20M50Y60K20	6-5-6	6.3YR 6/4.4 C15M40Y50K15	6-5-7	6.9YR 6.5/4 C10M30Y40K10	6-5-8	5YR 7/3.6 C10M25Y30K5	6-5-9	5YR 7.5/2.4 C5M15Y20K10	6-5-10	5YR 8/1.8 C5M10Y15K3

7-1-1	2.5YR 5.5/9.6 COM65Y100K0	7-1-2	3.8YR 6/9.6 COM60Y90K0	7-1-3	3.8YR 6/9.2 COM55Y80K0	7-1-4	5.6YR 6.5/8.4 COM45Y70K0	7-1-5	5.6YR 7/6.4 COM35Y55K0	7-1-6	5.6YR 7.5/5.2 COM30Y45K0	7-1-7	5YR 7.5/4.4 COM25Y35K0	7-1-8	4.4YR 8/3.2 COM15Y20K0	7-1-9	5YR 8.5/2.8 COM10Y15K0	7-1-10	3.1YR 9/1.2 COM5Y5K0
7-2-1	2.5YR 5.5/9.6 COM65Y100K10	7-2-2	5.6YR 6/7.6 COM55Y85K10	7-2-3	5.6YR 6/8 COM50Y75K8	7-2-4	6.3YR 6.5/6.8 COM40Y60K8	7-2-5	5.6YR 7/6 COM30Y45K5	7-2-6	6.3YR 7.5/4.4 COM20Y35K5	7-2-7	4.4YR 8/3.2 COM15Y20K5	7-2-8	7.5YR 8.5/2.4 COM5Y15K5	7-2-9	COM0Y0K0	7-2-10	COM0Y0K0
7-3-1	2.5YR 5/8.4 COM70Y100K20	7-3-2	5YR 5.5/7.2 COM55Y80K20	7-3-3	5.6YR 6/6.4 COM45Y65K20	7-3-4	6.3YR 6.5/4.4 COM30Y45K20	7-3-5	5.6YR 7/3.2 COM25Y35K10	7-3-6	COM0Y0K0	7-3-7	COM0Y0K0	7-3-8	COM0Y0K0	7-3-9	COM0Y0K0	7-3-10	COM0Y0K0
7-4-1	2.5YR 5/7.6 COM70Y100K30	7-4-2	2.5YR 5/7.6 COM70Y90K25	7-4-3	2.5YR 5.5/7.6 COM65Y80K15	7-4-4	1.9YR 5.5/8 COM60Y70K10	7-4-5	COM0Y0K0	7-4-6	COM0Y0K0	7-4-7	COM0Y0K0	7-4-8	COM0Y0K0	7-4-9	COM0Y0K0	7-4-10	COM0Y0K0
7-5-1	3.1YR 4.5/6.8 COM70Y100K40	7-5-2	3.1YR 5/6.8 COM65Y90K35	7-5-3	5.6YR 5/6 COM55Y80K35	7-5-4	5YR 5.5/6 COM50Y70K30	7-5-5	6.3YR 6/5.6 COM40Y60K25	7-5-6	5.6YR 6.5/5.2 COM35Y50K20	7-5-7	5.6YR 7/4.4 COM25Y35K15	7-5-8	5.6YR 7.5/3.6 COM20Y30K10	7-5-9	6.3YR 8/2.8 COM10Y20K8	7-5-10	2.5Y 8.5/2.4 COM5Y15K8

8-1-1 8.8R 5/10.4 C0M75Y80K0	8-1-2 8.8R 5.5/10 C0M70Y70K0	8-1-3 0.6YR 6/8.8 C0M60Y65K0	8-1-4 9.4R 6/8.8 C0M55Y55K0	8-1-5 1.9YR 6.5/7.6 C0M45Y50K0	8-1-6 1.3YR 7/6.8 C0M40Y40K0	8-1-7 1.3YR 7.5/5.6 C0M30Y30K0	8-1-8 0.6YR 7.5/4.4 C0M25Y20K0	8-1-9 3.1YR 8/2.8 C0M15Y15K0	8-1-10 3.8YR 8.5/2.4 C0M10Y10K0
8-2-1 0.6YR 5/8 C10M75Y85K5	8-2-2 3.1YR 6/6.8 C10M55Y65K5	8-2-3 3.8YR 6.5/6 C5M40Y45K5	8-2-4 4.4YR 7.5/4.8 C3M25Y30K5	8-2-5 3.8YR 8.5/2 C0M10Y10K3	8-2-6 C0M0Y0K0	8-2-7 C0M0Y0K0	8-2-8 C0M0Y0K0	8-2-9 C0M0Y0K0	8-2-10 C0M0Y0K0
8-3-1 2.5YR 4.5/7.2 C15M75Y90K15	8-3-2 3.8YR 5.5/6.4 C15M60Y70K10	8-3-3 4.4YR 6/5.6 C10M45Y50K8	8-3-4 5YR 7/4.4 C10M30Y35K5	8-3-5 3.8YR 8/1.8 C10M15Y15K10	8-3-6 C0M0Y0K0	8-3-7 C0M0Y0K0	8-3-8 C0M0Y0K0	8-3-9 C0M0Y0K0	8-3-10 C0M0Y0K0
8-4-1 2.5YR 4/6.4 C20M80Y95K25	8-4-2 2.5YR 4.5/7.2 C15M75Y85K15	8-4-3 2.5YR 5/7.2 C15M70Y75K8	8-4-4 1.9YR 5.5/8 C10M65Y65K0	8-4-5 C0M0Y0K0	8-4-6 C0M0Y0K0	8-4-7 C0M0Y0K0	8-4-8 C0M0Y0K0	8-4-9 C0M0Y0K0	8-4-10 C0M0Y0K0
8-5-1 3.1YR 4/5.2 C30M85Y100K30	8-5-2 4.4YR 4.5/5.6 C25M75Y90K25	8-5-3 3.6YR 5/5.6 C25M65Y75K20	8-5-4 6.9YR 5.5/5.6 C20M55Y70K15	8-5-5 6.3YR 6/4.8 C15M45Y50K15	8-5-6 3.6YR 6.5/4.4 C15M35Y40K5	8-5-7 3.6YR 7.5/4.4 C10M25Y30K3	8-5-8 5YR 7.5/2.8 C0M20Y20K3	8-5-9 4.4YR 8/2.4 C5M15Y15K3	8-5-10 4.4YR 8/2.8 C3M15Y15K0

9-1-1 7.5R 4.5/9.2 C0M85Y85K20	9-1-2 10R 5/7.6 C0M75Y75K20	9-1-3 10R 5.5/7.6 C0M70Y70K15	9-1-4 0.6YR 5.5/7.2 C0M60Y60K15	9-1-5 1.9YR 6/6.4 C0M50Y50K10	9-1-6 0.6YR 6.5/6 C0M45Y40K8	9-1-7 0.6YR 7/5.6 C0M35Y30K5	9-1-8 1.3YR 7.5/3 C0M25Y20K3	9-1-9 3.1YR 8/2.8 C0M15Y15K3	9-1-10 0.6YR 8.5/2 C0M10Y5K0
9-2-1 6.9R 5/10.4 C5M90Y75K0	9-2-2 7.5R 5.5/9.6 C5M80Y65K0	9-2-3 8.8R 6/8.4 C3M65Y55K0	9-2-4 8.1R 6.5/7.6 C3M55Y40K0	9-2-5 0.6YR 7/6 C3M40Y35K0	9-2-6 1.3YR 7.5/5.2 C0M30Y25K0	9-2-7 1.3YR 8/3.2 C0M20Y15K0	9-2-8 C0M0Y0K0	9-2-9 C0M0Y0K0	9-2-10 C0M0Y0K0
9-3-1 5.6R 4.5/9.6 C5M90Y60K10	9-3-2 6.9R 5/8 C3M75Y50K10	9-3-3 6.3R 6/8 C0M65Y40K8	9-3-4 6.9R 5.5/6.8 C0M50Y30K5	9-3-5 8.1R 7.5/5.6 C0M35Y20K3	9-3-6 0.6YR 7.5/3.6 C0M25Y15K3	9-3-7 0.6YR 8.5/2.8 C0M15Y8K0	9-3-8 C0M0Y0K0	9-3-9 C0M0Y0K0	9-3-10 C0M0Y0K0
9-4-1 4.4R 4/6.4 C30M100Y75K10	9-4-2 4.4R 4.5/6.4 C20M90Y65K10	9-4-3 2.5R 5/6.4 C15M80Y50K5	9-4-4 0.6R 5.5/6.8 C5M70Y35K3	9-4-5 10RP 6/6.4 C3M60Y25K0	9-4-6 C0M0Y0K0	9-4-7 C0M0Y0K0	9-4-8 C0M0Y0K0	9-4-9 C0M0Y0K0	9-4-10 C0M0Y0K0
9-5-1 0.6R 3.5/4.4 C20M100Y50K50	9-5-2 9.4RP 4/4.8 C20M90Y45K40	9-5-3 8.8RP 4.5/4 C15M80Y40K35	9-5-4 8.1RP 5/4.4 C15M70Y35K30	9-5-5 9.4RP 5.5/4 C10M60Y30K25	9-5-6 0.6R 6/3.6 C8M50Y25K20	9-5-7 3.8R 6.5/2.8 C5M35Y20K15	9-5-8 5R 7/2 C5M25Y15K10	9-5-9 3.8R 8/2.4 C3M20Y10K5	9-5-10 3.8YR 8.5/1.4 C0M10Y10K3

10-1-1 2.5RP 4.5/4 C50M80Y25K10	10-1-2 0.6RP 5/4 C45M70Y20K10	10-1-3 1.9RP 5/3.6 C40M65Y20K10	10-1-4 10P 5.5/3.6 C35M55Y15K8	10-1-5 9.4P 6/2.4 C30M45Y15K5	10-1-6 7.5P 6.5/2.4 C25M35Y10K5	10-1-7 7.5P 7/2.4 C20M30Y8K3	10-1-8 5P 7.5/1.8 C15M20Y5K3	10-1-9 7.5P 8.5/1.8 C8M15Y3K0	10-1-10 8.8P 9/1 C3M5Y0K0
10-2-1 6.3P 4.5/3.2 C60M70Y25K10	10-2-2 5.6P 5/3.2 C50M60Y20K8	10-2-3 6.9P 6/2.8 C40M50Y15K5	10-2-4 3.1P 6.5/2.4 C30M35Y10K5	10-2-5 4.4P 7.5/2.4 C20M25Y5K0	10-2-6 1.9P 8.5/1.8 C10M10Y0K0	10-2-7 COM0Y0K0	10-2-8 COM0Y0K0	10-2-9 COM0Y0K0	10-2-10 COM0Y0K0
10-3-1 1.9P 4.5/3.6 C75M75Y25K0	10-3-2 8.8PB 5/3.6 C65M60Y20K8	10-3-3 6.9PB 5.5/3 C55M50Y15K5	10-3-4 2.5P 6.5/3.0 C40M40Y10K3	10-3-5 7.5PB 7/2.8 C30M25Y5K0	10-3-6 10PB 7.5/3.2 C20M20Y0K0	10-3-7 COM0Y0K0	10-3-8 COM0Y0K0	10-3-9 COM0Y0K0	10-3-10 COM0Y0K0
10-4-1 4.4PB 3.5/2 C100M70Y20K50	10-4-2 5PB 4/4.4 C85M55Y5K40	10-4-3 3.1PB 5/4.4 C70M45Y10K25	10-4-4 1.3PB 5.5/4 C60M30Y10K15	10-4-5 1.3PB 6.5/4 C50M20Y5K5	10-4-6 COM0Y0K0	10-4-7 COM0Y0K0	10-4-8 COM0Y0K0	10-4-9 COM0Y0K0	10-4-10 COM0Y0K0
10-5-1 10B 3.5/1.4 C100M70Y30K70	10-5-2 3.1PB 3.5/2 C90M65Y25K55	10-5-3 1.9PB 4/2.4 C80M55Y25K45	10-5-4 3.1PB 4.5/2 C70M50Y20K40	10-5-5 1.9PB 5.5/2 C60M40Y15K30	10-5-6 1.9PB 5.5/2 C50M35Y15K25	10-5-7 1.9PB 6/2.4 C40M25Y10K20	10-5-8 0.6PB 6.5/1 C30M20Y10K15	10-5-9 0.6PB 7.5/1 C20M10Y5K10	10-5-10 1.3PB 8/1 C10M5Y5K5

11-1-1 2.5PB 4.5/6 C90M50Y15K15	11-1-2 1.9PB 5/6 C80M45Y15K10	11-1-3 1.9PB 5.5/6 C75M40Y10K5	11-1-4 1.9PB 6.5/6 C65M35Y10K5	11-1-5 1.9PB 6.5/5 C55M30Y10K0	11-1-6 0.6PB 7/4 C45M20Y10K0	11-1-7 3.1PB 7/3.2 C35M20Y8K0	11-1-8 1.3PB 8/2.8 C25M10Y5K0	11-1-9 2.5PB 8.5/1 C15M8Y3K0	11-1-10 3.1B 8.5/1 C10M3Y3K0
11-2-1 1.3PB 5/5.6 C85M50Y25K0	11-2-2 1.3PB 5.5/5 C70M40Y20K0	11-2-3 1.9PB 6.5/4 C50M30Y15K0	11-2-4 1.9PB 7.5/3 C30M15Y5K0	11-2-5 5PB 8.5/2.4 C15M5Y0K0	11-2-6 C0M0Y0K0	11-2-7 C0M0Y0K0	11-2-8 C0M0Y0K0	11-2-9 C0M0Y0K0	11-2-10 C0M0Y0K0
11-3-1 8.1B 5/5.6 C80M25Y20K20	11-3-2 8.1B 6/4.8 C65M20Y15K15	11-3-3 8.8B 6.5/4 C50M15Y10K10	11-3-4 7.5B 7.5/2.8 C35M10Y10K5	11-3-5 5.6B 8.5/1.8 C20M5Y5K0	11-3-6 C0M0Y0K0	11-3-7 C0M0Y0K0	11-3-8 C0M0Y0K0	11-3-9 C0M0Y0K0	11-3-10 C0M0Y0K0
11-4-1 4.4B 4.5/3.6 C75M5Y25K50	11-4-2 2.5B 5.5/4 C70M5Y30K35	11-4-3 3.1B 6/4.8 C70M5Y30K20	11-4-4 0.6B 6/4.4 C65M5Y35K10	11-4-5 C0M0Y0K0	11-4-6 C0M0Y0K0	11-4-7 C0M0Y0K0	11-4-8 C0M0Y0K0	11-4-9 C0M0Y0K0	11-4-10 C0M0Y0K0
11-5-1 3.1BG 4/3.6 C95M20Y70K45	11-5-2 5.6BG 4.5/4 C90M15Y60K40	11-5-3 5BG 5/4 C80M15Y55K30	11-5-4 8.8BG 5/3.6 C70M15Y45K25	11-5-5 6.9BG 5.5/3 C60M10Y40K20	11-5-6 8.8BG 6/2.8 C50M8Y30K15	11-5-7 6.3BG 6.5/2 C40M5Y25K10	11-5-8 9.4BG 7.5/2 C30M5Y15K5	11-5-9 6.3BG 8/1.2 C20M3Y10K3	11-5-10 1.9BG 8.5/1 C10M0Y5K0

12-1-1 1.3BG 5/4.4 C80M0Y60K35	12-1-2 1.0G 5/4.4 C75M0Y55K30	12-1-3 9.4G 5.5/4 C65M0Y50K25	12-1-4 1.9BG 6/3.2 C60M0Y45K25	12-1-5 8.8G 6.5/2.8 C50M0Y40K20	12-1-6 3.1BG 6.5/2 C45M0Y30K15	12-1-7 1.0G 7/2 C35M0Y25K10	12-1-8 9.4G 7.5/1.6 C30M0Y20K5	12-1-9 6.3G 8/1 C20M0Y15K5	12-1-10 3.8G 8.5/1 C15M0Y10K0
12-2-1 3.1G 5/4.8 C75M0Y70K30	12-2-2 1.9G 5.5/4.4 C60M0Y60K25	12-2-3 1.9G 6/4 C50M0Y50K20	12-2-4 2.5G 7/2.4 C35M0Y35K15	12-2-5 8.1GY 8/1.6 C20M0Y25K8	12-2-6 COM0Y0K0	12-2-7 COM0Y0K0	12-2-8 COM0Y0K0	12-2-9 COM0Y0K0	12-2-10 COM0Y0K0
12-3-1 0.6G 5/5.6 C70M0Y80K25	12-3-2 0.6G 6/5.2 C60M0Y65K20	12-3-3 1.3G 6.5/4 C50M0Y50K10	12-3-4 1.9G 7.5/2.8 C35M0Y35K5	12-3-5 1.0GY 8/2 C25M0Y25K0	12-3-6 COM0Y0K0	12-3-7 COM0Y30K0	12-3-8 COM0Y0K0	12-3-9 COM0Y0K0	12-3-10 COM0Y0K0
12-4-1 8.8GY 5/6.8 C75M20Y100K5	12-4-2 7.5GY 5.5/6.8 C65M15Y95K5	12-4-3 6.9GY 6/6.8 C55M10Y85K5	12-4-4 6.3GY 6.5/6.8 C50M5Y80K3	12-4-5 5.6GY 7/6.8 C40M0Y70K0	12-4-6 COM0Y0K0	12-4-7 COM0Y0K0	12-4-8 COM0Y0K0	12-4-9 COM0Y0K0	12-4-10 COM0Y0K0
12-5-1 6.9GY 6/7.6 C60M0Y100K10	12-5-2 6.9GY 6/7.2 C55M0Y90K10	12-5-3 6.9GY 6.5/6.8 C50M0Y80K8	12-5-4 5.6GY 7/6 C40M0Y70K8	12-5-5 5GY 7/5.2 C35M0Y60K5	12-5-6 6.9GY 7.5/3.2 C30M0Y45K5	12-5-7 5.6GY 8/2.4 C20M0Y35K3	12-5-8 5GY 8.5/1.8 C15M0Y25K3	12-5-9 5GY 8.5/1 C10M0Y15K0	12-5-10 6.3GY 9/1 C5M0Y8K0

13-1-1 3.1GY 6.5/7.6 C35M0Y100K10	13-1-2 3.1GY 7/7.6 C30M0Y90K10	13-1-3 3.8GY 7/6.8 C30M0Y80K8	13-1-4 2.5GY 7.5/6 C25M0Y70K8	13-1-5 2.5GY 7.5/5.6 C20M0Y60K5	13-1-6 1.9GY 8/4.8 C15M0Y50K3	13-1-7 3.1GY 8/3.6 C15M0Y40K3	13-1-8 2.5GY 8.5/2.4 C10M0Y30K3	13-1-9 0.6GY 9/1.6 C5M0Y20K0	13-1-10 9.4Y 9/1.4 C3M0Y15K0
13-2-1 3.1GY 6.5/6.4 C35M10Y90K15	13-2-2 2.5GY 6.5/6 C30M8Y80K15	13-2-3 2.5GY 7/5.6 C25M8Y70K10	13-2-4 2.5GY 7/4.8 C20M5Y60K10	13-2-5 2.5GY 8/3.6 C15M5Y45K5	13-2-6 3.1GY 8/2.8 C15M3Y45K3	13-2-7 3.1GY 8.5/2 C10M0Y25K3	13-2-8 1.9GY 8.5/1.4 C5M0Y15K3	13-2-9 C0M0Y0K0	13-2-10 C0M0Y0K0
13-3-1 3.8GY 6.5/6 C40M15Y85K20	13-3-2 3.8GY 6.5/4.8 C30M10Y65K15	13-3-3 3.1GY 7/2.8 C20M8Y45K15	13-3-4 1.9GY 7.5/2 C10M5Y30K10	13-3-5 9.4Y 8.5/1.4 C3M0Y15K5	13-3-6 C0M0Y0K0	13-3-7 C0M0Y0K0	13-3-8 C0M0Y0K0	13-3-9 C0M0Y0K0	13-3-10 C0M0Y0K0
13-4-1 5GY 4.5/3.6 C40M20Y100K60	13-4-2 4.4GY 5/4.8 C40M15Y95K45	13-4-3 4.4GY 5.5/5.2 C40M15Y90K30	13-4-4 4.4GY 6/6.4 C45M10Y90K15	13-4-5 5.6GY 6.5/6.8 C45M5Y85K5	13-4-6 C0M0Y0K0	13-4-7 C0M0Y0K0	13-4-8 C0M0Y0K0	13-4-9 C0M0Y0K0	13-4-10 C0M0Y0K0
13-5-1 7.5GY 4/2.8 C60M30Y100K70	13-5-2 6.9GY 4.5/3.6 C55M25Y90K30	13-5-3 6.3GY 5/4 C50M25Y80K35	13-5-4 3.1GY 5.5/4 C40M20Y75K30	13-5-5 4.4GY 6/4 C35M15Y65K25	13-5-6 3.8GY 6/3.2 C30M15Y55K20	13-5-7 3.1GY 7/2.8 C20M10Y45K15	13-5-8 3.8GY 7.5/2.4 C15M5Y35K10	13-5-9 1.9GY 8/2.4 C10M5Y30K5	13-5-10 1.9GY 8.5/1.8 C5M0Y20K5

14-1-1 2.5PB 3.5/1 C40M0Y0K90	14-1-2 0.6PB 3.5/1 C35M0Y0K85	14-1-3 9.4B 4/1 C30M0Y0K75	14-1-4 8.1B 4.5/1.2 C25M0Y3K65	14-1-5 3.1B 5/1 C20M0Y5K55	14-1-6 6.3B 6/1 C15M0Y5K45	14-1-7 2.5B 6.5/1 C15M3Y8K30	14-1-8 9.4B 7/1 C8M3Y8K20	14-1-9 6.3GY 8/1 C5M3Y10K10	14-1-10 3.1GY 8/1 C8M5Y15K3
14-2-1 7.5B 5/1.8 C65M45Y45K5	14-2-2 4.4B 6/1 C55M40Y40K3	14-2-3 10G 6.5/1 C45M30Y35K3	14-2-4 0.6B 7/1 C30M20Y25K3	14-2-5 8.1GY 8/1 C20M10Y20K3	14-2-6 8.1GY 8.5/1 C13M5Y15K0	14-2-7 COM0Y0K0	14-2-8 COM0Y0K0	14-2-9 COM0Y0K0	14-2-10 COM0Y0K0
14-3-1 13.8G 4.5/1 C60M45Y45K25	14-3-2 8.1B 5/1 C55M40Y40K20	14-3-3 6.25G 6/1 C40M30Y30K15	14-3-4 3.8G 6.5/1 C30M20Y25K10	14-3-5 7.5GY 7.5/1 C20M13Y20K5	14-3-6 7.5R 8.5/1 C10M8Y10K0	14-3-7 COM0Y0K0	14-3-8 COM0Y0K0	14-3-9 COM0Y0K0	14-3-10 COM0Y0K0
14-4-1 5.6GY 4.5/1.4 C60M50Y60K25	14-4-2 7.5GY 5/1 C55M45Y50K20	14-4-3 6.9GY 5.5/1 C50M40Y45K15	14-4-4 2.5G 6/1 C40M30Y35K15	14-4-5 2.5GY 6.5/1 C30M25Y30K10	14-4-6 5R 7/1 C20M20Y20K8	14-4-7 5R 7.5/1 C15M15Y15K5	14-4-8 5R 8/1 C10M10Y8K0	14-4-9 COM0Y0K0	14-4-10 COM0Y0K0
14-5-1 N3.0 COM0Y0K100	14-5-2 N3.5 COM0Y0K90	14-5-3 N4.0 COM0Y0K80	14-5-4 N4.5 COM0Y0K70	14-5-5 N5.0 COM0Y0K60	14-5-6 N5.75 COM0Y0K50	14-5-7 N6.25 COM0Y0K40	14-5-8 N7.0 COM0Y0K30	14-5-9 N7.5 COM0Y0K20	14-5-10 N8.25 COM0Y0K10

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