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**NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA**

**GB/T 45272-2025**

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**Guidelines for age-friendly design of household products**

家居产品适老化设计指南

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## Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document is proposed and coordinated by China Light Industry Federation. This document was drafted by: China Light Industry Information Center, Hisense Refrigerator Co., Ltd., Gold Medal Kitchen Cabinet Home Technology Co., Ltd., Guangdong Midea Kitchen and Bathroom Appliances Manufacturing Co., Ltd., Arrow Home Furnishing Group Co., Ltd., China Electronics Engineering Design Institute Co., Ltd., Jomoo Kitchen Qingdao Haier Yikang Technology Co., Ltd., Qingdao Aucma Household Appliances Co., Ltd., Hengjie Sanitary

Ware Group Co., Ltd., Guangzhou Mona Lisa Bathroom Co., Ltd., Ningbo Bochu Integrated Kitchen Co., Ltd., Hefei Royalstar Electronic Appliance Group Co., Ltd., Ludvans Operation Management (Shenzhen) Co., Ltd., Foshan Electrical Lighting Co., Ltd., Zhejiang Shaoxing Supor Household Appliances Co., Ltd., Zhejiang Tucson Custom Home Furnishing Co., Ltd., Yierkang Co., Ltd., Minhua Furniture Manufacturing (Huizhou) Co., Ltd., Beijing Huiyang Daojian Kang Technology Co., Ltd., Zulijian Aging Industry Development Co., Ltd., Guangdong Zhongjiangfu Health Industry Co., Ltd., Guangzhou Yimei Medical Furniture Technology Co., Ltd., Zhejiang Xierkang Smart Home Co., Ltd., Shengao Technology Co., Ltd., Taikang Health Industry Investment Holdings Co., Ltd., Huida Sanitary Ware Co., Ltd., Guangdong Rose Island Home Furnishing Co., Ltd., Caina Funo Home Furnishing (China) Co., Ltd., Chongqing Qingzhidu Building Materials Co., Ltd., Sofia Home Furnishing Co., Ltd., Panasonic Home Appliances (China) Co., Ltd., Anhui Konka Tongchuang Electric Appliances Co., Ltd., Guangdong Huiying Technology Co., Ltd., Fujian Jiansheng Furniture Group Co., Ltd., Shenzhen Huowang Intelligent Kitchen Appliance Co., Ltd., Duravit (China) Sanitary Ware Co., Ltd., Dongguan Lemsan Technology Building Materials Co., Ltd., Guangdong Haotai Technology Group Co., Ltd., Qingdao Haier Whole House Home Furnishing Co., Ltd., Zhejiang Pukang Smart Elderly Care Industry Technology Co., Ltd., Hisense Rongsheng (Guangdong) Refrigerator Co., Ltd., Dalian Huake Future Health Management Co., Ltd., Cangzhou Kangyun Health Technology Co., Ltd., Qumei Home Furnishing Group Co., Ltd., Hangzhou Yujian Cultural and Art Technology Co., Ltd., Hangzhou Reliable Nursing Products Co., Ltd., Chengdu Renfeng Education Information Technology Co., Ltd., Jiangsu Saikang Medical Equipment Co., Ltd., Hebei Lidel Cookware Co., Ltd., Yichun Meijiang Wood Art Co., Ltd., China Household Electrical Appliances Research Institute, Shanghai Quality Supervision and Inspection Technology Research Institute, Xiamen Kangxiaojin Home Furnishing Technology Co., Ltd. The main drafters of this document are. Zhao Yang, Meng Huimin, Han Han, Zhao Xing, Zhang Shanfang, Liu Zhaoxiang, Wang Yinhui, Li Zoujian, Zhang Yihan, Luo Jufen, Yao Ping, Xie Wei, Wei Yubin, Huang Qiuqiong, Zhao Xiangyang, Peng Zhiqiu, Chen Weiming, Li Jiajin, Zhang Yong, Yang Sen, Shan Erkang, Zhang Jingkang, Liu Zhaoguang, Pan Jian, Chen Huaming, Fan Weizhong, Pan Yin, Li Zhiye, Mo Sulin, Zhang Xuesong, Zhang Moqing, Wang Jie, Wu Xishan, Wang Zhiyong, Du Yujian, Gao Ping, Ye Xiaoyong, Hu Jiehui, Wang Weiyang, Lin Jianhua, Wu Zhen, Tu Qixu, Song Baichao, Ying Bishan, Hou Xuefeng, Xu Wei, Zhou Liang, Huang Yunwen, Shi Zhenyu, Wang Li, Han Ying, Yong Chen, Weijia Huang, Peng Sun, Jingyan Su, Shuai Yang, Lijie Zhu, Wei Tang, Yuekai Cai, Meijiang Wang, Lingchao Kong, Shi Huang.

The home products industry is aimed at serving the elderly, providing elderly household appliances, furniture, hardware, lighting, kitchen and bathroom, and daily auxiliary. The manufacturing industry of products such as nursing products, elderly care products, rehabilitation training and health promotion aids, and aging-friendly environment improvement is an important part of the aging industry. Promoting the development of the

home furnishing products industry is an important measure to actively respond to the aging of the population in the new era and is also a way to meet people's needs for a better life. An inevitable requirement for living needs. The design of home products for the elderly aims to support the construction of a complete home products for the elderly industry system and enhance the industry that adapts to the aging society. Supply capacity, and continue to meet the diverse and multi-level consumption needs of the elderly. The core of home products for the elderly design is "people-oriented", respecting The living habits, mental characteristics and personalized needs of the elderly. The design principles of home products for the elderly include safety, ease of use, comfort and Sustainability to ensure the safety and comfort of the elderly. According to their functions, elderly-friendly home products are usually divided into vision aids, cleaning aids, bathing aids, sleeping aids, kitchen aids, dining aids, walking aids, and toilet aids. Products include hearing aids, foster care products, entertainment aids and other products. A guide to designing home products for the elderly

## 1 Scope

GB/T 45272-2025 gives the Chinese guidelines for age-friendly design of household products. The premise is that most of what makes a home difficult for an older person is not the building but the objects in it: the tap that needs a grip they no longer have, the control panel whose contrast they cannot read, the chair they cannot rise from, the appliance whose beep they cannot hear. China is ageing rapidly and its furniture and appliance industries are the largest in the world, which makes design guidance of this kind commercially significant as well as social. The standard sets the design principles and then the design elements: the sensory elements covering vision, hearing, touch and the legibility of displays and markings, the health and safety elements, the physical and anthropometric fit including reach, grip and force, the cognitive elements covering the simplicity and consistency of operation, the adaptability to changing ability, and the emotional and dignity considerations, together with the evaluation of a design against them. It takes effect on 1 September 2025.

This document provides guidance on the design principles, design elements and design implementation of home products suitable for the elderly, and gives relevant information. This document is used to guide the aging-friendly design of household products.

## 2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

## GB/T 20002.2 Drafting of specific contents in standards Part

### 3 Terms and definitions

The terms and definitions defined in GB/T 20002.2 and the following apply to this document.

3.1 Household products Objects and equipment used in daily living. Examples. household appliances, furniture, hardware products, lighting appliances, etc.

3.2 Elderly people People aged 60 years and above. [Source: GB/T 36947-2018, 3.1]

3.3 Age-friendly The process of optimizing and adjusting products, facilities, services, environment, etc. to suit the characteristics and needs of the elderly (3.2).

### 4 Design Principles

The principles of home product design for aging include.

- a) Safety. Optimize the design details of household products to improve the safety of elderly people in contact (including direct or indirect contact), use (including direct Safety and reliability during use, assembly, maintenance, and disposal of household products;
- b) Usability. Adjust and optimize the functions and operations of home products to reduce misuse and ease of use, making home products easy to understand and operate. To reduce the possibility of misoperation by the elderly;
- c) Comfort. meet the physiological and psychological needs of the elderly, comply with ergonomics, and take into account individual needs;
- d) Sustainability. Products that meet the needs of older people throughout their life cycle and focus on environmental protection, resource utilization and long-term sustainability. develop.