

ICS 27.010
CCS F01



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

GB 30184-2013

**The norm of energy consumption per unit product of
bituminous waterproof sheet**

沥青基防水卷材单位产品能源消耗限额

Issued on: December 31, 2013

Implemented on: December 1, 2014

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

1 Scope	
1.33 To 3.0mm gauge PY 2.0 3.0	
2 Normative references	
2.0 PE, PET, D 0.80 1.00	
3 Terms and Definitions	
4.0 PE, S, D 0.67 1.00 1.33	
5.0 PE, S, M 1.00 1.33	
5.1.2 Statistical Methods	
5.2 Calculation Method Calculations	
6.2 Energy Saving Technology Management	
6.2.1 Energy-consuming equipment	
6.2.2 Production process	
Appendix A	
Appendix B	

Foreword

4.2 of this standard are mandatory, the rest are recommended. This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard by the National Development and Reform Commission Resource Conservation and Environmental Protection, the Ministry of Industry and Information Technology Energy Saving and Comprehensive Utilization Department proposed. This standard by the National Standardization Technical Committee for Energy and Management (SAC/TC20) and China Building Materials Federation focal point. This standard was drafted. China building waterproofing Association, China Building Materials Academy Suzhou waterproof Institute, China Building Materials Inspection Certification Group Suzhou Co., Ltd., Beijing Oriental Yuhong Waterproof Technology Co., Ltd., Guangdong Branch Shun Chemical Industry Co., Ltd., Liaoning, Yu Waterproof Technology Development Co., Ltd., Shengli Oilfield Daming new building waterproof material limited liability company Panjin Yuwang Waterproof Building Materials Group Co., Ltd. Division, Beijing Century Hong Yu Technology Co., Ltd., Beijing Yu Yang Zeli waterproof material limited liability company. The main drafters of this standard. Shang Huasheng, Zhu Dongqing, nest Cultural Revolution, Zhang Guangbin, Liu Jinjing, Sun Zhe, Chen Weizhong, Liu Zhiguo, Wang Shuling. Asphalt-based waterproofing membrane energy consumption per unit product

1 Scope

GB 30184-2013 is the Chinese national standard on the norm of energy consumption per unit product of bituminous waterproof sheet, in the field of energy and heat transfer engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 31 December 2013 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2014. Classification: ICS 27.010, CCS F01. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the asphalt-based waterproofing membrane unit product energy consumption (the energy) technical requirements limit, the scope of statistics and calculations Method, and energy management measures. This standard applies to elastomer (SBS) modified bitumen membrane, plastic body (APP) modified bitumen membrane and self-adhesive polymer-modified Calculation of the bitumen membrane production business unit product energy consumption, assessment and control of new energy projects.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2589 General Principles of comprehensive energy consumption calculation

GB/T 12497 three-phase asynchronous motor economy

GB/T 12723 energy consumption per unit of product preparation General

GB/T 13462 Power Transformer Economic Operation

GB/T 13469 centrifugal, mixed flow pumps, axial flow and vortex pump systems Economic Operation

GB/T 13470 Ventilator System Economic Operation

GB/T 17954 Industrial Boiler economy

GB 18242 elastomer modified bitumen membrane

GB 18243 plastic modified bitumen membrane

GB 18613 small and medium three-phase asynchronous motor energy efficiency limit value and energy efficiency rating

GB/T 19065 Electric Boiler economic operation

GB 19153 displacement air compressors energy efficiency limit value and energy efficiency rating

GB 19761 fan energy efficiency limit value and energy efficiency rating

3 Terms and Definitions

GB/T 12723 and defined by the following terms and definitions apply to this document.

3.1 Asphalt-based waterproofing membrane products integrated energy the comprehensive energy consumption of bituminous waterproof sheet During the reporting period, the waterproofing membrane in the production system, auxiliary production system and ancillary production system for the production of a variety of actual energy consumption Total source.

3.2 Asphalt-based waterproofing membrane comprehensive energy consumption per unit of product the comprehensive energy consumption per unit product of bituminous waterproof sheet Yield expressed in units of waterproofing membrane products overall energy consumption.

4. Technical Requirements

4.1 asphalt-based waterproofing membrane unit product energy consumption limits Existing asphalt-based waterproofing membrane production enterprises unit energy consumption limit values shall conform to Table 1. Table 1 asphalt-based waterproofing membrane unit product energy consumption limits product name Comprehensive energy consumption per unit of product limit value / (Kgce/km²) Asphalt-based waterproofing membrane Fetal and a <=220 No child b <=130 There are a tire products to 3.0mm calculations. b No child product calculated to 1.5mm.

4.2 asphalt-based waterproofing membrane unit product energy consumption value access New asphalt-based waterproofing membrane (including new production lines and technological transformation of the production line) production business unit product energy consumption values should be consistent access Specified in Table 2. Table 2 asphalt-based waterproofing membrane unit product energy consumption value access product name Access comprehensive energy consumption per unit of product value / (Kgce/km²) Asphalt-based waterproofing membrane Fetal and a <=200 No child b <=100 There are a tire products to 3.0mm calculations. b No child product calculated to 1.5mm.

4.3 asphalt-based waterproofing membrane unit product energy consumption advanced value Bitumen-based waterproofing membrane production enterprises advanced unit energy consumption values shall conform to Table 3. Table 3 asphalt-based waterproofing membrane unit product energy consumption advanced value product name Comprehensive

energy consumption per unit of product advanced value / (Kgce/km²) Asphalt-based waterproofing membrane Fetal and a ≤ 180 No child b $\leq$

90 There are a tire products to 3.0mm calculations. b No child product calculated to 1.5mm.

5 statistical coverage and calculation methods

5.1 statistical range

5.1.1 bitumen-based waterproofing membrane overall energy consumption

5.1.1.1 asphalt-based waterproofing membrane fuel consumption and overall energy consumption include comprehensive integrated power consumption, energy relates mainly include coal, fuel oil, gas, Electricity and so on.

5.1.1.2 asphalt-based waterproofing membrane overall energy consumption including energy production system, auxiliary production system energy consumption and energy production systems subsidiary, with Body as follows:

a) energy production systems. 1) Preparation of bitumen power consumption of the system; 2) molding equipment energy consumed.

b) auxiliary production system energy consumption. 1) conducting oil furnace fuel oil consumption; 2) conducting oil furnace consumption of electricity; 3) heating systems consume coal (or gas); 4) water cooling energy consumed; 5) the asphalt fume treatment facilities collect energy consumption; 6) consumption of electricity dust removal equipment; 7) transport vehicles consume fuel oil.

5.0 PE, S, M 1.00 1.33

1.67 Self-adhesive polymer modified bitumen membrane Standard Product Specifications Conversion Specifications Carcass thickness/mm on the surface of the material Conversion coefficient To 1.5mm gauge N 1.2 1.5

5.1.2 Statistical Methods

5.1.2.1 use in line with GB/T 24851 with the requirements of energy measuring instruments on energy consumption and the number of product yield during the reporting period were statistics. Number waterproofing membrane within the statistical range

5.1.2.2 See Appendix A unified converted into the number of standard thickness.

5.1.2.3 quarterly, semi-annual and year were calculated bitumen-based waterproofing membrane unit product energy consumption value.

5.2 Calculation Method Calculations

5.2.1 bitumen-based waterproofing membrane integrated energy Asphalt-based