HIGH PERFORMANCE DOORS
WITH
FIRE & ACOUSTIC RATING
Welcome
to the array of high-tech products from the house of
IDEAL
GROUP OF COMPANIES

With a modest beginning in 2002, IDEAL GROUP OF COMPANIES have made giant strides in the fields of manufacturing and marketing of High Performance Doors in UAE and neighboring GCC States. Today its manufacturing division - Ideal Furniture Manufacturing - and its marketing wing - FIRESTOP Trading Establishment - are well known among leading names in the fields of construction, consultants and project developers. Certifications and approvals based on actual test evidence from international laboratories like Chiltern(UK), Taylor Woodrow(UK)& PSB(Singapore) have made IDEAL products acceptable to Authorities like Civil Defence, Free Zone, Development Board etc. Many prestigious projects in UAE can bear testimony for the high quality associated with these products. Apart from test certificates, IDEAL fire rated doors have third party certification from BM TRADA also. Continuous product development based on in-house R&D keeps these products the ideal choice for high-end projects.

وقد بدأت نشاط IDEAL في عام 2002 باعتبارها شركة تصنع أتوترز عالية الأداء في عربات الصناعات والتسويق. اليوم، IDEAL GROUP OF COMPANIES معروفة في نطاق صناعة البناء والتشطيب، والتسويق. مع مرور الوقت، البنية التحتية المتاحة، والاعتماد على الأبحاث والاعتماد على الأدوار الخارجة مثل IDEAL، الذين تم اختبارها على مستوى دولي، يمثلون الربط الصحيح لمشاريع البناء عالية التكنولوجيا. وتشمل هذه المشاريع اعتماد IDEAL في أعمال البناء والسير في مجتمع الأعمال. كما أن IDEAL، التي تتميز بجودة عالية، تمتلك شهادات اعتماد من جوائز BM TRADA. تواصل IDEAL بتطوير المنتجات بناءً على الأبحاث الداخلية، مما يجعلها خيارًا مثاليًا لمشاريع الأندية الفاخرة.
Product Range

Fire rated doors

In 2002 IDEAL Fire rated doors having a mineral core-developed through in-house R&D, perhaps were the first of its kind to appear in the market with international test evidence from Chiltern International Fire Laboratory; UK where these doors were successfully tested to BS 476 Part 22. Subsequently, IDEAL doors were approved by Ajman & Dubai Civil Defence Authorities for 30, 60, 90 & 120 minutes based on individual test evidence and later on; these approvals were obtained for other Emirates also. Today IDEAL mineral core doors have Q-Mark certification from BM TRADA and are approved in almost all GCC states.

A new series of profiled fire rated doors were introduced in 2005 under the name of Architectural Series with popular wood veneers and this product was also well accepted by the market. These doors that offer up to a rating of 60 minutes are the only profiled fire rated doors available in the market having proper test evidence and certification. Technical data sheets available for IDEAL mineral core doors give full description of its constructional details.

IDEAL FURNITURE MANUFACTURING is also licensed, under Q-Mark scheme, to make fire rated doors using ready-made blanks like Halspan etc.
FACING

On top of the outer skin which is normally MDF or Commercial ply-IDEAL high performance doors are faced with wood veneers/laminates/paint as per customer’s choice to enhance the aesthetic appearance of the product. In case of profiled doors, facing material can be either veneer or paint. Wood veneer facing is further finished by a lacquering system which can also accommodate staining to achieve a limited range of tint.

Please refer to the range of facings (which is not exhaustive) given elsewhere in this brochure.
Acoustic Doors:

By middle of 2008, IDEAL Group was ready with the next step in product development. Taking advantage of the acoustic properties of the mineral core used in fire rated doors and further addition of high-end acoustic linings & heavy duty acoustic seals, IDEAL Acoustic Doors were launched. Prior to commercial launching, this product also underwent routine quality control procedures and acoustic tests to ISO 140-3: 1995 & ASTM E 90-04 at PSB (Singapore) - Part of world-wide TUV-SUD Material Testing and Standardization network. Results of these tests were very encouraging as IDEAL Acoustic Doors attained maximum acoustic rating of STC 44 dB. As these doors were already tested for fire rating of up to 120 minutes it can be stated with confidence that IDEAL High performance mineral core doors are the only locally manufactured ones offering combined fire & acoustic rating to this extent.

Fully descriptive technical data sheet is available for IDEAL mineral core acoustic doors.

Product to be launched soon:

Next product under development for launching is 'BARRIER CABINS' by IDEAL. In this product IDEAL mineral core panel having fire resisting, acoustic & thermal insulation properties are being used in the manufacture of pre-fabricated units suitable for office, accommodation, field hospital, school etc on semi-permanent basis often required by petroleum installations, defence establishments etc. These units will have the normal advantage of fast installation, re-usability etc coupled with additional technical features like fire resistance, thermal & sound insulation. In effect these cabins provide a BARRIER against fire, heat and sound. Details shall be provided on enquiry.
IDEAL products are manufactured to stringent quality standards in two factories in Ajman, UAE. A skilled team of work force complemented by modern machinery manufacture these products to the full satisfaction of our customers. Production facilities are periodically audited by third party certification bodies like BM TRADA for quality standards and consistency. Being a locally manufactured product, these doorsets can be made to exact requirements of customers; in terms of size, material (choice of timber, veneer), finish etc. IDEAL group also has standing arrangement with some of the leading joinery shops in UAE for specialized installation of their high performance doors. Each doorset is subjected to detailed scrutiny during manufacture and installation, only then are the label and Civil Defence certificate released.
IDEAL Acoustic Rated Mineral Core Doors

This product is a variant of IDEAL mineral core 120 min. fire rated door wherein additional components are added to achieve acoustic rating also. It is worth mentioning that there are only handful of suppliers globally who can provide these combined high-end ratings in the same door. The main additions are heavy duty acoustic seals (drop-down, perimeter, sweep, rebate etc), sound damping intumescent sheets and an increase in leaf thickness by 6 mm(from 54 mm to 60 mm). This door has been successfully tested at PSB acoustic lab in Singapore to ASTM E90 – 04/ISO 140-3 and acoustic ratings of STC /Rw 39 to 44 which were obtained with various seal combinations as mentioned below:

01. Door leaf tested as panel without gasketing
   : STC/Rw – 44 dB

02. Door set tested with full gasketing:
   (i) Drop-down seal at leaf bottom
   (ii) Sweep seal at bottom
   (iii) Perimeter seal on three sides (Except bottom)
   (iv) Batwing seal in rebate (Three sides)
   : STC/Rw – 42 dB

03. Door set tested with partial gasketing (Combination-1)
   (i) Drop-down seal at leaf bottom
   (ii) Perimeter on three sides
   (iii) Batwing seal in rebate
   : STC/Rw – 41 dB

04. Door set tested with partial gasketing (Combination-2)
   (i) Drop-down seal at leaf bottom
   (ii) Batwing seal in rebate
   : STC/Rw – 39 dB

Note: In all the above cases the fire rating is assumed to be minimum 120 minutes with standard fire seals added as basic arrangement of 120 min mineral core doorset is modified for acoustic testing with additional components.

Seperate technical data sheet is available showing placement of seals and lining.
IDEAL Acoustic Rated Mineral Core Doors

This product is a variant of IDEAL mineral core 120 min. fire rated door wherein additional components are added to achieve acoustic rating also. It is worth mentioning that there are only handful of suppliers globally who can provide these combined high-end ratings in the same door. The main additions are heavy duty acoustic seals (drop-down, perimeter, sweep, rebate etc), sound damping intumescent sheets and an increase in leaf thickness by 6 mm (from 54 mm to 60 mm). This door has been successfully tested at PSB acoustic lab in Singapore to ASTM E90 - 04/ISO 140-3 and acoustic ratings of STC/Rw 39 to 44 which were obtained with various seal combinations as mentioned below:

01. Door leaf tested as panel without gasketing
   : STC/Rw – 44 dB

02. Door set tested with full gasketing:
   i. Drop-down seal at leaf bottom
   ii. Sweep seal at bottom
   iii. Perimeter seal on three sides (Except bottom)
   iv. Batwing seal in rebate (Three sides)
   : STC/Rw – 42 dB

03. Door set tested with partial gasketing (Combination-1)
   i. Drop-down seal at leaf bottom
   ii. Perimeter on three sides
   iii. Batwing seal in rebate
   : STC/Rw – 41 dB

04. Door set tested with partial gasketing (Combination-2)
   i. Drop-down seal at leaf bottom
   ii. Batwing seal in rebate
   : STC/Rw – 39 dB

Note: In all the above cases the fire rating is assumed to be minimum 120 minutes with standard fire seals added as basic arrangement of 120 min mineral core doorset is modified for acoustic testing with additional components.

Seperate technical data sheet is available showing placement of seals and lining.
Fire testing in progress

Certificates & Accreditations:

Taylor Woodrow
Sound Technology

TUV SUD
PSC Certification

Chittern
Test Certificate: Chit/R07112

Registration Certificate
BM TRADA
Timber Fire Doors

This is to certify that the following company
BM Furniture Manufacturing
BM TRADA

meets the requirements of BS 476: Part 22:
for Fire Doors within the
BM TRADA Certification Limited
scheme for Q-Mark Fire Doors
# TECHNICAL REPORT

**PRODUCT:**
FIRE DOOR

**PRODUCT APPLICATION:**
PASSIVE FIRE PROTECTION COMPONENT

**APPLICANT / P.O. BOX:**
PREMIER ENGINEERING & TRADING W.L.L.

**MANUFACTURER / LOCATION:**
IDEAL SPECIAL PRODUCTS / UAE

## FIRE DOOR

- CHILT/A01204 HALSPAN LTD IDEAL - HO – 30 30MIN BS 476 PART 22
- CHILT/A01205 HALSPAN LTD IDEAL - HO – 60 60MIN BS 476 PART 22
- CHILT/A05151 HALSPAN LTD IDEAL - HE – 90 90MIN BS 476 PART 22
- CHILT/A06092 IDEAL SPECIAL PRODUCTS FZC IDEAL – 60 60MIN BS 476 PART 22
- CHILT/A06093 IDEAL SPECIAL PRODUCTS FZC IDEAL – 90 90MIN BS 476 PART 22
- CHILT/RF07112 IDEAL SPECIAL PRODUCTS FZC IDEAL – 120 (DOOR B) 120MIN BS 476 PART 22
- CHILT/RF06153 IDEAL SPECIAL PRODUCTS FZC IDEAL – 120 (DOOR B) 120MIN BS 476 PART 22

**3RD PARTY CERTIFICATE / APPROVAL:**
BM TRADA CERTIFICATE #105

**RECOMMENDATIONS:**
The QCDD has reviewed the submission of the above mentioned applicant and finds NO OBJECTIVE to the sale and use of the Fire Safety Product/ Equipment stated herein as verified from the 3rd Party Testing Authority. The approval of this product is only valid upon installation by person certified by the manufacturer.

The product shall bear the mark of the certifying body and shall be verified by the engineer prior to installation.

This product approval is valid up to one (1) year from the date of issue.

**MANUFACTURER’S NAME/LOGO/Q-Mark**

### ENGINEERS

[Signatures]

### OFFICERS

[Signatures]
توضيح:

تأهيل الشركات والمؤسسات العاملة في مجال
ترخيص الإطفاء والحرائق

تم الموافقة على المنتج (FIRE DOORS) وذلك حسب التقرير الفني رقم 10305 والمصدر بتاريخ 28/07/2013 والمفرق على صورة منه.

ملاحظة:

يرجى الإطلاع على الإرشادات في خلف الشهادة والالتزام بها.

توقيع مدير إدارة الوقاية:

توقيع الضابط المختص: