ALASIM OMAR ARCHITECT
F-27-1, Block F, 1st Floor,
Royal Plaza Putatan, KM 11.2, Jalan Putatan,
88200, Kota Kinabalu, Sabah.
email : alasim.architect@gmail.com
Tel : 088 760 752 Fax : 088 761 752

Ruj KPKT : KPKT.600-3/88/1(41)
Ruj Kami: AoA/BBPut/msgypceiling01
Tarikh: 20 Januari 2022

Kepada : **KEMENTERIAN PERUMAHAN DAN KERAJAAN TEMPATAN**
BAHAGIAN PEMBANGUNAN DAN PERLAKSANAAN PROJEK,
Aras 5-8, No.51,
Persiaran Perdana, Presint 4,
62100, Putrajaya.

U/P : **Ar. Wan Mohammad Norshah Abdul Satar**
Ketua Penolong Pengarah Unit Seni Bina

Tuan,

Tajuk : **BALAI BOMBA DAN KUARTERS PUTATAN, SABAH**

Perkara: **Material Submission - Gypsum Ceiling**

Merujuk kepada perkara di atas, bersama-sama ini kami kemukakan dokumen berikut untuk kelulusan pihak tuan.

Material : Gypsum Ceiling
Brand : Saint-Gobain Malaysia Sdn Bhd
Dilampirkan sekali dokumen berikut:

1. Borang Kelulusan Bahan
2. Sijil SIRIM
3. Sijil Pasangan Keselamatan Kebakaran
4. Katalog

Sila hubungi kami sekiranya tuan memerlukan penjelasan lebih lanjut.

Sekian dan terima kasih,
Yang benar,
ALASIM OMAR ARCHITECT

LEMBAGA ARKITEK MALAYSIA

Ar. IDr. Datu Alasim bin Datu Omar
LAM Reg. Number : A/D 17
LAM Reg. Number : ID/D 17
Mobile : +6 013 - 39 75752

cc : - *Kementerian Perumahan dan Kerajaan Tempatan*
KPPK / KPKT / Wilayah 6
- *MTR Engineering Sdn. Bhd.*

	BK-PEMB-PK(P)-08-07	Pindaan	00
	BORANG KELULUSAN BAHAN/PEMERIKSAAN MOCK-UP	Mukasurat	1 / 1
		Tarikh	19.01.2022

BORANG KELULUSAN BAHAN/PEMERIKSAAN MOCK-UP

Note: *Potong mana yg tidak berkenaan.

PROJEK: MEMBINA BALAI BOMBA DAN KUARTERS PUTATAN, SABAH. No. Kontrak : KPKT/BPEMB/JBPM/6/14/2021		**Kontraktor :** MTR ENGINEERING SDN.BHD.	
BUTIRAN KERJA KELULUSAN BAHAN/MOCK-UP/ DESKRIPSI ITEM SAMPEL: GYPSUM CEILING		**Lokasi Mock-~~up~~/ Bahan/Kerja**: Kota Kinabalu	**Tarikh :** 19.01.2022
Model: **Kod Item:** GYPSUM BOARD	**Pengilang:** SAINT-GOBAIN MALAYSIA SDN BHD	**Negara Asal:** MALAYSIA	**Pengedar Tempatan:** SAINT-GOBAIN MALAYSIA SDN BHD

PERAKUAN PERUNDING (ARKITEK) (*Jika projek R&B*):

Saya dengan ini mengesahkan bahawa cadangan bahan/peralatan/*mock-up* adalah mematuhi kehendak spesifikasi dan berfungsi seperti kehendak kontrak.

Disertakan

Katalog ☑ Lukisan ☑ Sampel Bahan ☐ Spesifikasi ☑ Sijil ☐

Sampel kerja ☐ *Mock-up* ☐

No objection to the brand submitted.

Tandatangan Perunding Arkitek* Ar. Datu Alasim bin Datu Omar 721119-12-5661	**Jawatan/Cap Rasmi :**
Nama :	Tarikh : 20/01/2022

PERAKUAN KONTRAKTOR:

Saya dengan ini berjanji akan mematuhi kehendak CPP/Perunding* dan memastikan *bahan/peralatan/mock up/kerja yang dicadangkan mengikut spesifikasi dan berfungsi seperti di dalam kontrak.

Tandatangan Wakil Kontraktor	**Jawatan/Cap Rasmi** Pengurus pembinaan
Nama : **Sufian Bin Sutresno**	Tarikh : 19.01.2022

KEPUTUSAN JKR CPP:

Dipersetujui (*concurred*) ☐

Walaupun perkara di atas telah dipersetujui, adalah menjadi tanggungjawab kontraktor bagi memastikan *bahan/peralatan/mock up/kerja mematuhi kehendak spesifikasi dan berfungsi seperti yang telah dinyatakan di dalam kontrak.

Ditolak dan perlu kemukakan semula ☐

Tandatangan KUR*(Arkitek/M&E/C&S)/Wakil PP	Jawatan/Cap Rasmi
Nama :	Tarikh

*Nota: Potong mana yang tidak berkenaan.

No Lesen : **LS107401**
Licence No :

SIJIL BARANGAN TERSENARAI
Product Listing Certificate

LISTED PRODUCT
SIRIM

SIRIM QAS International Sdn. Bhd. dengan ini menganugerahkan kepada
SIRIM QAS International Sdn. Bhd. hereby grants to

SAINT-GOBAIN MALAYSIA SDN. BHD.
NO. 1 JALAN SULTAN MOHAMMAD 4
KAWASAN PERINDUSTRIAN
BANDAR SULTAN SULAIMAN
42000 PELABUHAN KLANG
SELANGOR, MALAYSIA

Sijil untuk menggunakan Tanda Barangan Tersenarai
a certificate to use the Listed Product Mark on

GYPSUM BOARD

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with

BS 476 : PART 6 : 1989 + A1 : 2009
BS 476 : PART 7 : 1997

Nur Fadhilah binti Muhammad
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

SIRIM QAS International Sdn. Bhd.
(No. Syarikat 410334-X)
1, Persiaran Dato' Menteri
Seksyen 2, Peti Surat 7035
40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA.

Tel : 60-3-55446400
Faks : 60-3-55446466
http://www.sirim.my
http://www.malaysian-certified.my

Tarikh Mula Pensijilan	**: 05 October 2007**	**Tarikh Dikeluarkan**	**: 10 May 2021**
Certified Since		*Issue Date*	
Sah Sehingga	**: 19 July 2022**	**No Siri**	: 064192
Valid Until		*Serial No*	

Lesen ini dianugerahkan tertakluk kepada syarat-syarat Perjanjian Pensijilan Barangan SIRIM QAS International Sdn. Bhd.
This Licence is granted subject to the provisions of the Product Certification Agreement of SIRIM QAS International Sdn. Bhd.

No Lesen : **LS107401**
Licence No :

SCHEDULE

SAINT-GOBAIN MALAYSIA SDN. BHD.

LISTED PRODUCT
SIRIM

Trade Mark :GYPROC GYPBOARD
Model :REGULAR BOARD (TOPLINE & BASELINE)
Rating :FIRE PROPAGATION INDEX, I: 1.4, 0.8, 0.8; SURFACE SPREAD OF FLAME: CLASS ONE
Size :NOMINAL THICKNESS : 9.0mm - 15.0mm
TEST REPORT: 2018FE0245, 2018FE0246, 2018FE0247, 2018FE0248, 2018FE0249, 2018FE0250

Trade Mark :GYPROC GYPBOARD
Model :AQUALINE
Rating :FIRE PROPAGATION INDEX, I: 3.3, 4.3 SURFACE SPREAD OF FLAME: CLASS ONE
Size :NOMINAL THICKNESS : 9.0mm - 15.0mm
TEST REPORT: 2015FE0230, 2015FE0229, 2015FE0228, 2015FE0227

Trade Mark :GYPROC GYPBOARD
Model :DURALINE
Rating :FIRE PROPAGATION INDEX, I: 2.9, 2.4 SURFACE SPREAD OF FLAME: CLASS ONE
Size :NOMINAL THICKNESS : 16.0mm - 19.0mm
TEST REPORT: 2017FE0168, 2017FE0169, 2017FE0170, 2017FE0171

Trade Mark :GYPROC GYPBOARD
Model :FIRELINE
Rating :FIRE PROPAGATION INDEX, I: 3.2, 2.4 SURFACE SPREAD OF FLAME: CLASS ONE
Size :NOMINAL THICKNESS : 12.5mm - 15.0mm
TEST REPORT: 2017FE0166, 2017FE0167, 2019FE0699, 2019FE0700

TEST REPORT NO. : 2015FE0227, 2015FE0228, 215FE0230, 2015FE0229, 2017FE0166, 2017FE0167, 2017FE0168, 2017FE0169, 2017FE0170, 2017FE0171, 2018FE0250, 2018FE0245, 2018FE0248, 2018FE0249, 2018FE0246, 2018FE0247, 2019FE0700, 2019FE0699

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SIRIM QAS International Sdn. Bhd.
(No. Syarikat 410334-X)
1, Persiaran Dato' Menteri
Seksyen 2, Peti Surat 7035
40700 Shah Alam
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MALAYSIA.

Tel : 60-3-55446400
Faks : 60-3-55446466
http://www.sirim.my
http://www.malaysian-certified.my

Tarikh Mula Pensijilan	**: 05 October 2007**	**Tarikh Dikeluarkan**	**: 10 May 2021**
Certified Since		*Issue Date*	
Sah Sehingga	**: 19 July 2022**	**No Siri**	: 064192
Valid Until		*Serial No*	

Lesen ini dianugerahkan tertakluk kepada syarat-syarat Perjanjian Pensijilan Barangan SIRIM QAS International Sdn. Bhd.
This Licence is granted subject to the provisions of the Product Certification Agreement of SIRIM QAS International Sdn. Bhd.

No Lesen : **LS107401**
Licence No :

SIJIL BARANGAN TERSENARAI
Product Listing Certificate

LISTED PRODUCT
SIRIM

SIRIM QAS International Sdn. Bhd. dengan ini menganugerahkan kepada
SIRIM QAS International Sdn. Bhd. hereby grants to

SAINT-GOBAIN MALAYSIA SDN. BHD.
NO. 1 JALAN SULTAN MOHAMMAD 4
KAWASAN PERINDUSTRIAN
BANDAR SULTAN SULAIMAN
42000 PELABUHAN KLANG
SELANGOR, MALAYSIA

Sijil untuk menggunakan Tanda Barangan Tersenarai
a certificate to use the Listed Product Mark on

GYPSUM BOARD

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with

BS 476 : PART 6 : 1989 + A1 : 2009
BS 476 : PART 7 : 1997

Nur Fadhilah binti Muhammad
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

SIRIM QAS International Sdn. Bhd.
(No. Syarikat 410334-X)
1, Persiaran Dato' Menteri
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Tel : 60-3-55446400
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Tarikh Mula Pensijilan	**: 05 October 2007**	**Tarikh Dikeluarkan**	**: 10 May 2021**
Certified Since		*Issue Date*	
Sah Sehingga	**: 19 July 2022**	**No Siri**	: 064192
Valid Until		*Serial No*	

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This Licence is granted subject to the provisions of the Product Certification Agreement of SIRIM QAS International Sdn. Bhd.

No Lesen : **LS107401**
Licence No :

SCHEDULE

SAINT-GOBAIN MALAYSIA SDN. BHD.

LISTED PRODUCT
SIRIM

Trade Mark :GYPROC GYPBOARD
Model :REGULAR BOARD (TOPLINE & BASELINE)
Rating :FIRE PROPAGATION INDEX, I: 1.4, 0.8, 0.8; SURFACE SPREAD OF FLAME: CLASS ONE
Size :NOMINAL THICKNESS : 9.0mm - 15.0mm
TEST REPORT: 2018FE0245, 2018FE0246, 2018FE0247, 2018FE0248, 2018FE0249, 2018FE0250

Trade Mark :GYPROC GYPBOARD
Model :AQUALINE
Rating :FIRE PROPAGATION INDEX, I: 3.3, 4.3 SURFACE SPREAD OF FLAME: CLASS ONE
Size :NOMINAL THICKNESS : 9.0mm - 15.0mm
TEST REPORT: 2015FE0230, 2015FE0229, 2015FE0228, 2015FE0227

Trade Mark :GYPROC GYPBOARD
Model :DURALINE
Rating :FIRE PROPAGATION INDEX, I: 2.9, 2.4 SURFACE SPREAD OF FLAME: CLASS ONE
Size :NOMINAL THICKNESS : 16.0mm - 19.0mm
TEST REPORT: 2017FE0168, 2017FE0169, 2017FE0170, 2017FE0171

Trade Mark :GYPROC GYPBOARD
Model :FIRELINE
Rating :FIRE PROPAGATION INDEX, I: 3.2, 2.4 SURFACE SPREAD OF FLAME: CLASS ONE
Size :NOMINAL THICKNESS : 12.5mm - 15.0mm
TEST REPORT: 2017FE0166, 2017FE0167, 2019FE0699, 2019FE0700

TEST REPORT NO. : 2015FE0227, 2015FE0228, 215FE0230, 2015FE0229, 2017FE0166, 2017FE0167, 2017FE0168, 2017FE0169, 2017FE0170, 2017FE0171, 2018FE0250, 2018FE0245, 2018FE0248, 2018FE0249, 2018FE0246, 2018FE0247, 2019FE0700, 2019FE0699

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Tarikh Mula Pensijilan	**: 05 October 2007**	**Tarikh Dikeluarkan**	**: 10 May 2021**
Certified Since		*Issue Date*	
Sah Sehingga	**: 19 July 2022**	**No Siri**	: 064192
Valid Until		*Serial No*	

Lesen ini dianugerahkan tertakluk kepada syarat-syarat Perjanjian Pensijilan Barangan SIRIM QAS International Sdn. Bhd.
This Licence is granted subject to the provisions of the Product Certification Agreement of SIRIM QAS International Sdn. Bhd.

No. Fail: **JBPM/IP/RNP:700-7/2/7-460 (15)**
(PEMBAHARUAN : KELIMA)

SIJIL PEPASANGAN KESELAMATAN KEBAKARAN

APPROVAL CERTIFICATE

Jabatan Bomba dan Penyelamat Malaysia
dengan ini memperakukan
Fire and Rescue Department of Malaysia
hereby certify

BAHAN KELAS 'O'
GYPSUM BOARD
TRADE MARK: GYPROC GYPBOARD
MODEL: AQUALINE
NOMINAL THICKNESS: 9mm & 15mm

CERTIFIED TO
ISO 9001 : 2015
CERT. NO: QMS 02121

CERTIFIED TO
ISO9001 : 2015
CERT. NO: QMS 02121

Berdasarkan Piawaian
Complying with

BS476 : PART6 : 1989 + A1:2009 & BS476 : PART 7:1997

Syarikat Berdaftar
Registered company

SAINT-GOBAIN MALAYSIA SDN BHD
No. 1, Jalan Sultan Mohamad 4,
Kawasan Perindustrian Bandar Sultan Sulaiman,
42000 Port Klang,
Selangor.

Tempoh sah perakuan: **20/07/2021 hingga 19/07/2022**

(PKPjB KAMARULZAMAN MALIK ABDULLAH)
Pengarah,
Bahagian Perancangan dan Penyelidikan,
b.p. Ketua Pengarah,
Jabatan Bomba dan Penyelamat Malaysia.

Tarikh: 19 July 2021

**** Peringatan:**
Sila patuhi sepenuhnya syarat-syarat dan had kegunaan seperti dalam Lampiran A1

No. Fail: **JBPM/IP/RNP:700-7/2/7- 460 (15)**
No. Siri: **BB/C'O'/2115/2015 (P5)**

LAMPIRAN A1

Jenis Bahan Binaan	:	**KELAS 'O'** **(GYPSUM BOARD)**
Jenama & Spesifikasi	:	**TRADE MARK: GYPROC GYPBOARD** **MODEL: AQUALINE** **NOMINAL THICKNESS: 9mm & 15mm** **MEASURED DENSITY: 766 kg/m^3 & 899 kg/m^3**
Nama & Alamat Pengeluar	:	**SAINT-GOBAIN MALAYSIA SDN BHD**
Tahap Rintangan Api	:	**KELAS 'O'** **FIRE PROPAGATION INDEX, (I) : 3.3 & 4.3** **SURFACE SPREAD OF FLAME : CLASS 1**
No. Laporan ujian/Tarikh	:	**SIRIM 2015FE0227 (02/04/2015), SIRIM 2015FE0228 (07/04/2015) & SIRIM 2015FE0229 (02/04/2015), SIRIM 2015FE0230 (07/04/2015)**
Skim Persijilan Barangan	:	**SIRIM QAS INT SDN BHD- NO LESEN: LS107401 - NO SIRI:064192 (SAH SEHINGGA 19/07/2022)** ***- SILA KEMUKAKAN SIJIL PENSIJILAN BARANGAN TERBARU UNTUK PEMBAHARUAN YANG AKAN DATANG. SIJIL TIDAK AKAN DIKELUARKAN TANPA DOKUMEN TERSEBUT.***
Had Kegunaan	:	**PEMASANGAN SEBAGAI BAHAN KELAS 'O'. TIDAK BOLEH DIGUNAKAN SEBAGAI PARTY WALL, FIRE WALL DAN CLADDING. DIBENARKAN SEBAGAI DINDING DALAMAN SAHAJA. PERLU MEMATUHI SPESIFIKASI UJIAN, UBBL 1984 SERTA SYARAT-SYARAT SEPERTI DI LAMPIRAN A2.**



Tempoh sah perakuan: **20/07/2021 hingga 19/07/2022**

Permohonan pembaharuan sila rujuk **Lampiran A3**

LAMPIRAN A2

SISTEM/ALAT KELENGKAPAN/BAHAN BINAAN/PINTU RINTANGAN API

Perakuan ini tertakluk kepada syarat-syarat berikut:-

1. Sijil Perakuan ini tidak boleh dipindah milik tanpa kebenaran Jabatan ini.

2. ***Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** yang dikeluarkan hendaklah menepati spesifikasi sample dan seperti di dalam laporan ujian.

3. Sebarang perubahan/tambahan daripada spesifikasi komponen yang asal hanya boleh dilakukan dengan terlebih dahulu mendapat kebenaran bertulis daripada Jabatan Bomba dan Penyelamat, Malaysia.

4. Dalam hal-hal tertentu pengeluaran dan mutu **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** hendaklah menepati syarat-syarat yang ditetapkan oleh SIRIM atau Skim Kawalan Mutu yang diiktiraf oleh Jabatan Bomba dan Penyelamat, Malaysia.

5. Apabila terdapat pindaan atau pembaharuan pada syarat/piawai, pengeluar/pengedar akan diberi tempoh masa yang ditetapkan oleh Jabatan Bomba dan Penyelamat, Malaysia untuk meminda atau mengubah spesifikasi asal **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** mengikut syarat-syarat piawaian yang baru tersebut.

6. Semua **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** perlu mempunyai nama pengeluar, nombor siri, tarikh dikeluarkan dan tanda 'SIRIM' atau lain-lain tanda skim diiktiraf oleh Jabatan Bomba dan Penyelamat, Malaysia (jika berkaitan).

7. Jabatan Bomba dan Penyelamat, Malaysia adalah berhak untuk memilih mana-mana sample **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** yang telah dikeluarkan ATAU dipasang untuk dikaji dan jika perlu diuji semula. Sebarang kos perbelanjaan adalah ditanggung oleh pengeluar.

8. Pengeluar/Pengedar hendaklah mengemukakan salinan sah surat perakuan ini bagi penggunaan pengedaran **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** yang berkenaan kepada Jabatan ini.

* *Potong mana tidak berkaitan.*

(Pegawai Penyemak)
Ts. DR. AHMAD FAIZ ZAINUDIN
Bahagian Perancangan dan Penyelidikan

9. Pengeluar/pengedar **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** hendaklah mengemukakan surat pengesahan Lampiran C1/C2* ke Jabatan ini (kepada Pengarah Negeri dan salinan ke Ibu Pejabat JBPM) bahawa ia telah melaksanakan pengawasan/pemasangan/perbekalan* seperti piawaian yang disahkan oleh SIRIM dan Jabatan Bomba dan Penyelamat, Malaysia.

10. Arkitek atau Jurutera Perunding Bertauliah hendaklah memastikan dan mengawasi semua kerja-kerja pemasangan yang dilakukan oleh kontraktor/pemasangan dan mengesahkannya dengan menghantar surat pengesahan Lampiran C3 ke Jabatan ini (Bahagian Keselamatan Kebakaran) sebelum atau semasa pemeriksaan bangunan.

11. Pemasangan **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** hendaklah disahkan oleh pengeluar atau Jurutera Bertauliah/Arkitek bahawa telah mematuhi spesifikasi pengeluar atau kod-kod yang diiktiraf.

12. Jika terdapat apa-apa kejadian atau laporan munasabah yang menunjukkan kegagalan prestasi kepada **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** atau tidak mematuhi syarat-syarat yang terkandung dalam Uniform Building By-Law (UBBL 1984) serta Arahan Jabatan hendaklah segera dilaporkan kepada Jabatan Bomba dan Penyelamat, Malaysia. Jabatan berhak menarik balik Sijil Perakuan dengan notis atau tanpa notis.

13. Pegawai Bomba juga boleh membuat pemeriksaan mengejut (random inspection/checking) ke atas kilang pembuat atau pepasangan untuk menentukan tiada penyelewengan dari segi mutu dan spesifikasi **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api.**

14. Surat perakuan ini, keseluruhan ATAU sebahagian daripadanya adalah tidak boleh diterbitkan ATAU digunakan untuk apa-apa tujuan promosi ATAU pengiklanan sama ada pada media cetak ATAU pada mana-mana tempat dengan apa-apa cara sekalipun tanpa mendapat kebenaran bertulis daripada Jabatan Bomba dan Penyelamat, Malaysia.

* *Potong mana tidak berkaitan.*

(Pegawai Penyemak)
Ts. DR. AHMAD FAIZ ZAINUDIN
Bahagian Perancangan dan Penyelidikan

LAMPIRAN A3

PEMBAHARUAN SIJIL PERAKUAN

1. Untuk permohonan memperbaharui sesuatu Sijil Perakuan/Kelulusan Jabatan, permohonan tersebut hendaklah disampaikan ke pejabat ini **sebulan** sebelum tarikh perakuan ini tamat:-

   1.1 Permohonan bertulis.

   1.2 Salinan Laporan Ujian terbaru dari SIRIM atau mana-mana makmal yang diiktiraf jika berkaitan.

   1.3 Salinan Laporan Penilaian Teknikal oleh makmal jika berkaitan.

   1.4 Salinan Sijil Perakuan/Kelulusan terdahulu.

   1.5 Senarai Lengkap projek sepanjang tempoh 'validity' kelulusan tersebut.

   1.6 Mengadakan kemudahan pemeriksaan bagi penilaian semula **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** sekiranya diperlukan.

2. Adalah menjadi kesalahan jika semua perkara di atas dilanggari dan Jabatan Bomba dan Penyelamat, Malaysia berhak menarik balik surat perakuan ini sebelum tamat tempohnya.

* *Potong mana tidak berkaitan.*

(Pegawai Penyemak)
Ts. DR. AHMAD FAIZ ZAINUDIN
Bahagian Perancangan dan Penyelidikan

No. Fail: **JBPM/IP/RNP: 700-7/2/7-313(34)**
(PEMBAHARUAN KEEMPAT BELAS)

SIJIL PEPASANGAN KESELAMATAN KEBAKARAN

APPROVAL CERTIFICATE

CERTIFIED TO ISO 9001 : 2015 CERT. NO: QMS 02121

CERTIFIED TO ISO 9001 : 2015 CERT. NO: QMS 02121

Jabatan Bomba dan Penyelamat Malaysia
dengan ini memperakukan
Fire and Rescue Department of Malaysia
hereby certify

BAHAN KELAS 'O'
GYPSUM BOARD
TRADE MARK: GYPROC GYPBOARD
MODEL:REGULAR BOARD (TOPLINE & BASELINE)
9.0 mm : Regular Board (Topline)
12.5mm : Regular Board (Baseline)
15mm : Regular Board (Baseline)

Berdasarkan Piawaian
Complying with

BS 476-PART 6 :1989+A1:2009 & BS 476-PART 7: 1997

Syarikat Berdaftar
Registered company

SAINT-GOBAIN MALAYSIA SDN BHD
No. 1, Jalan Sultan Mohamad 4,
Kawasan Perindustrian Bandar Sultan Sulaiman,
42000 Port Klang,
Selangor.

Tempoh sah perakuan: **20/07/2021 hingga 19/07/2022**

(PKPjB KAMARULZAMAN MALIK ABDULLAH)
Pengarah
Bahagian Perancangan dan Penyelidikan,
b.p. Ketua Pengarah
Jabatan Bomba dan Penyelamat Malaysia.

Tarikh: 1 Jun 2021

** **Peringatan:**
Sila patuhi sepenuhnya syarat-syarat dan had kegunaan seperti dalam Lampiran A1

No. Fail: **JBPM/IP/RNP: 700-7/2/7-313(34)**
No.Siri: **BB/GYPBOARD/1281/2008(P14)**

LAMPIRAN A1

Jenis Bahan Binaan	:	**BAHAN KELAS 'O'- GYPSUM BOARD**
Model & Spesifikasi	:	**GYPSUM BOARD** **TRADE MARK: GYPROC GYPBOARD** **MODEL:REGULAR BOARD (TOPLINE & BASELINE)** **9.0 mm : Regular Board (Topline)** **12.5mm : Regular Board (Baseline)** **15mm : Regular Board (Baseline)**
Nama & Alamat Pengeluar	:	**SAINT-GOBAIN MALAYSIA SDN BHD**
Tahap Rintangan Api		**KELAS 'O'** **FIRE PROPAGATION INDEX, I : 1.4, 0.8 & 0.8** **SURFAXE SPREAD OF FLAME : CLASS 1**
No. Laporan ujian/Tarikh	:	**SIRIM 2007FE0238 (27/08/2007), SIRIM 2007FE0187 (26/07/2007), SIRIM 2007FE0260, SIRIM 2007FE0179, SIRIM 2007FE0242, SIRIM 2007FE0178, SIRIM 2013FE0378, SIRIM 2013FE0379, & SIRIM 2013FE0380**
Skim Persijilan Barangan	:	**SIRIM QAS INT SDN BHD- NO LESEN: LS107401 – NO SIRI:064192 SAH SEHINGGA 19 JULY 2022**
Had Kegunaan	:	**PEMASANGAN SEBAGAI BAHAN KELAS 'O'. TIDAK BOLEH DIGUNAKAN SEBAGAI PARTY WALL, FIRE WALL DAN CLADDING. DIBENARKAN SEBAGAI DINDING DALAMAN SAHAJA. PERLU MEMATUHI SPESIFIKASI UJIAN, UBBL 1984 SERTA SYARAT-SYARAT SEPERTI DI LAMPIRAN A2.**

JABATAN BOMBA DAN PENYELAMAT MALAYSIA
BAHAGIAN PERANCANGAN DAN PENYELIDIKAN

Tempoh sah perakuan: **20/07/2021 hingga 19/07/2022**

Permohonan pembaharuan sila rujuk **Lampiran A3**

LAMPIRAN A2

SISTEM/ALAT KELENGKAPAN/BAHAN BINAAN/PINTU RINTANGAN API

Perakuan ini tertakluk kepada syarat-syarat berikut:-

1. Sijil Perakuan ini tidak boleh dipindah milik tanpa kebenaran Jabatan ini.

2. ***Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** yang dikeluarkan hendaklah menepati spesifikasi sample dan seperti di dalam laporan ujian.

3. Sebarang perubahan/tambahan daripada spesifikasi komponen yang asal hanya boleh dilakukan dengan terlebih dahulu mendapat kebenaran bertulis daripada Jabatan Bomba dan Penyelamat, Malaysia.

4. Dalam hal-hal tertentu pengeluaran dan mutu **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** hendaklah menepati syarat-syarat yang ditetapkan oleh SIRIM atau Skim Kawalan Mutu yang diiktiraf oleh Jabatan Bomba dan Penyelamat, Malaysia.

5. Apabila terdapat pindaan atau pembaharuan pada syarat/piawai, pengeluar/pengedar akan diberi tempoh masa yang ditetapkan oleh Jabatan Bomba dan Penyelamat, Malaysia untuk meminda atau mengubah spesifikasi asal **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** mengikut syarat-syarat piawaian yang baru tersebut.

6. Semua **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** perlu mempunyai nama pengeluar, nombor siri, tarikh dikeluarkan dan tanda 'SIRIM' atau lain-lain tanda skim diiktiraf oleh Jabatan Bomba dan Penyelamat, Malaysia (jika berkaitan).

7. Jabatan Bomba dan Penyelamat, Malaysia adalah berhak untuk memilih mana-mana sample **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** yang telah dikeluarkan ATAU dipasang untuk dikaji dan jika perlu diuji semula. Sebarang kos perbelanjaan adalah ditanggung oleh pengeluar.

8. Pengeluar/Pengedar hendaklah mengemukakan salinan sah surat perakuan ini bagi penggunaan pengedaran **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** yang berkenaan kepada Jabatan ini.

* *Potong mana tidak berkaitan.*

(Pegawai Penyemak)
Ts. DR. AHMAD FAIZ ZAINUDIN
Bahagian Perancangan dan Penyelidikan

9. Pengeluar/pengedar **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** hendaklah mengemukakan surat pengesahan Lampiran C1/C2* ke Jabatan ini (kepada Pengarah Negeri dan salinan ke Ibu Pejabat JBPM) bahawa ia telah melaksanakan pengawasan/pemasangan/perbekalan* seperti piawaian yang disahkan oleh SIRIM dan Jabatan Bomba dan Penyelamat, Malaysia.

10. Arkitek atau Jurutera Perunding Bertauliah hendaklah memastikan dan mengawasi semua kerja-kerja pemasangan yang dilakukan oleh kontraktor/pemasangan dan mengesahkannya dengan menghantar surat pengesahan Lampiran C3 ke Jabatan ini (Bahagian Keselamatan Kebakaran) sebelum atau semasa pemeriksaan bangunan.

11. Pemasangan **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** hendaklah disahkan oleh pengeluar atau Jurutera Bertauliah/Arkitek bahawa telah mematuhi spesifikasi pengeluar atau kod-kod yang diiktiraf.

12. Jika terdapat apa-apa kejadian atau laporan munasabah yang menunjukkan kegagalan prestasi kepada **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** atau tidak mematuhi syarat-syarat yang terkandung dalam Uniform Building By-Law (UBBL 1984) serta Arahan Jabatan hendaklah segera dilaporkan kepada Jabatan Bomba dan Penyelamat, Malaysia. Jabatan berhak menarik balik Sijil Perakuan dengan notis atau tanpa notis.

13. Pegawai Bomba juga boleh membuat pemeriksaan mengejut (random inspection/checking) ke atas kilang pembuat atau pepasangan untuk menentukan tiada penyelewengan dari segi mutu dan spesifikasi **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api.**

14. Surat perakuan ini, keseluruhan ATAU sebahagian daripadanya adalah tidak boleh diterbitkan ATAU digunakan untuk apa-apa tujuan promosi ATAU pengiklanan sama ada pada media cetak ATAU pada mana-mana tempat dengan apa-apa cara sekalipun tanpa mendapat kebenaran bertulis daripada Jabatan Bomba dan Penyelamat, Malaysia.

* *Potong mana tidak berkaitan.*

(Pegawai Penyemak)
Ts. DR. AHMAD FAIZ ZAINUDIN
Bahagian Perancangan dan Penyelidikan

LAMPIRAN A3

PEMBAHARUAN SIJIL PERAKUAN

1. Untuk permohonan memperbaharui sesuatu Sijil Perakuan/Kelulusan Jabatan, permohonan tersebut hendaklah disampaikan ke pejabat ini **sebulan** sebelum tarikh perakuan ini tamat:-

   1.1 Permohonan bertulis.

   1.2 Salinan Laporan Ujian terbaru dari SIRIM atau mana-mana makmal yang diiktiraf jika berkaitan.

   1.3 Salinan Laporan Penilaian Teknikal oleh makmal jika berkaitan.

   1.4 Salinan Sijil Perakuan/Kelulusan terdahulu.

   1.5 Senarai Lengkap projek sepanjang tempoh 'validity' kelulusan tersebut.

   1.6 Mengadakan kemudahan pemeriksaan bagi penilaian semula **Sistem/Alat Kelengkapan/Bahan Binaan/Pintu Rintangan Api** sekiranya diperlukan.

2. Adalah menjadi kesalahan jika semua perkara di atas dilanggari dan Jabatan Bomba dan Penyelamat, Malaysia berhak menarik balik surat perakuan ini sebelum tamat tempohnya.

* *Potong mana tidak berkaitan.*



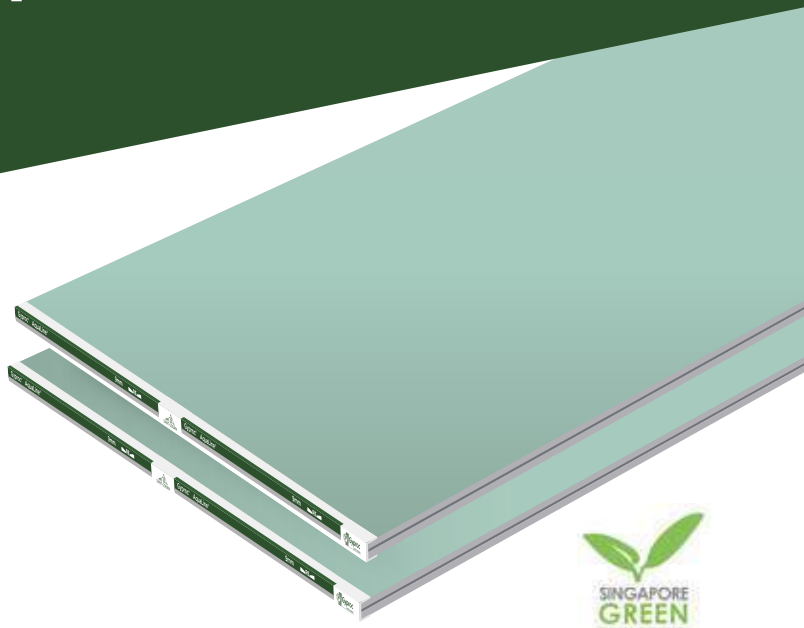
(Pegawai Penyemak)
Ts. DR. AHMAD FAIZ ZAINUDIN
Bahagian Perancangan dan Penyelidikan

Gyproc
SAINT-GOBAIN

Moisture resistance | Energy efficiency | Environmentally friendly | Site productivity gain | Stability

Recycling certified | Smooth manual finish | Inspiring Space | Superior aesthetic & design

AquaLine®



AquaLine®

AquaLine® is a gypsum board with water repellent additives in the core and encased in a special green paper lining. The board is designed to reduce the absorption of moisture from the surrounding environment while maintaining its form, function and unique features.

While it is universally used in Gyproc® drywall systems for wall linings and ceiling systems to offer moisture resistance, AquaLine® is also highly suitable as a backing board for ceramic tiling in intermittent moisture areas, and also for external soffits in sheltered positions.

SINGAPORE GREEN BUILDING PRODUCT SGBC LEADER
SGBP 2018-1224

CHARACTERISTICS

Gypsum compound and papers are mixed with specially formulated substances to enhance moisture resistance.

RECOMMENDED USE

Universally used for walls and ceiling in intermittent moisture areas e.g bathrooms, toilets and kitchen, and for external soffits in sheltered position.

PRODUCT FORMAT

Thickness	9mm	12.5mm
Nominal Weight	7.20kg/m²	10.00kg/m²
Nominal Sheet Size	1220mm x 2440mm	
Edge Type	Recessed Edge 	Square Edge 

FIRE RATING

- Non-combustible in accordance to BS 476: Part 4
- Low fire propagation in accordance to BS 476: Part 6
- Class 1 surface spread of flame in accordance toBS 476: Part 7
- Classified as Class 0 material in accordance to local building regulations

MANUFACTURING SPECIFICATIONS

- In compliance with ASTM C1396M and BS EN 520

REACTION TO MOISTURE

- The gypsum compound contains silicon oil that reduces moisture absorption.
- Water absorption ≤ 5% in compliance to BS EN 520 Class H1

HANDLING AND WORKABILITY

- Lightweight
- Quick and easy installation
- Highly flexible in creating the highest standards of design
- Easily decorated
- Supports tiling up to 32kg/m² using a suitable tile adhesive

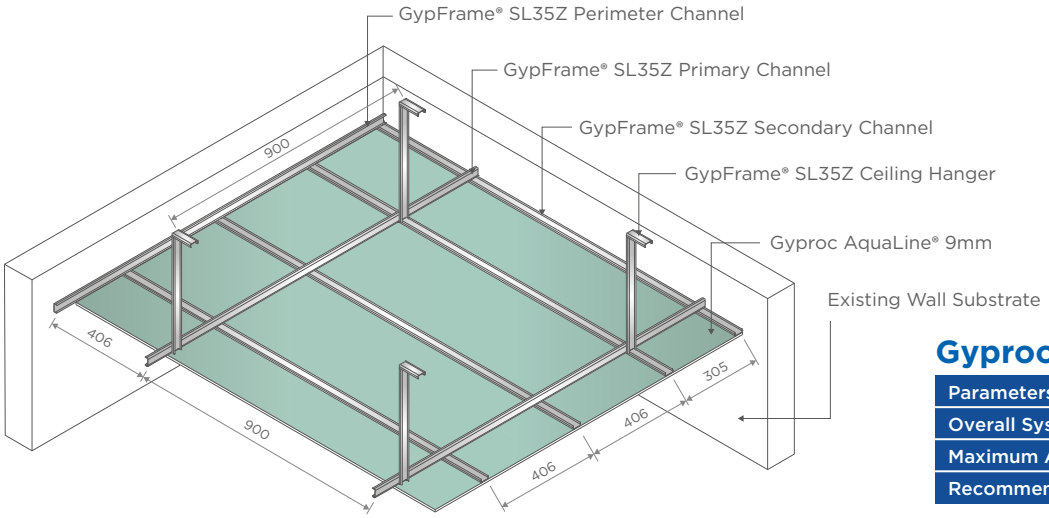
HEALTH AND ENVIRONMENTAL CONTRIBUTIONS

- Made from 100% natural gypsum
- Recyclable material, hence environmentally friendly and certified with Green Product Certification Scheme
- Does not produce toxic fumes or hazardous substances that are harmful to health
- Product is manufactured in a facility certified to standards of ISO 14001 and ISO 9002.

SAINT-GOBAIN

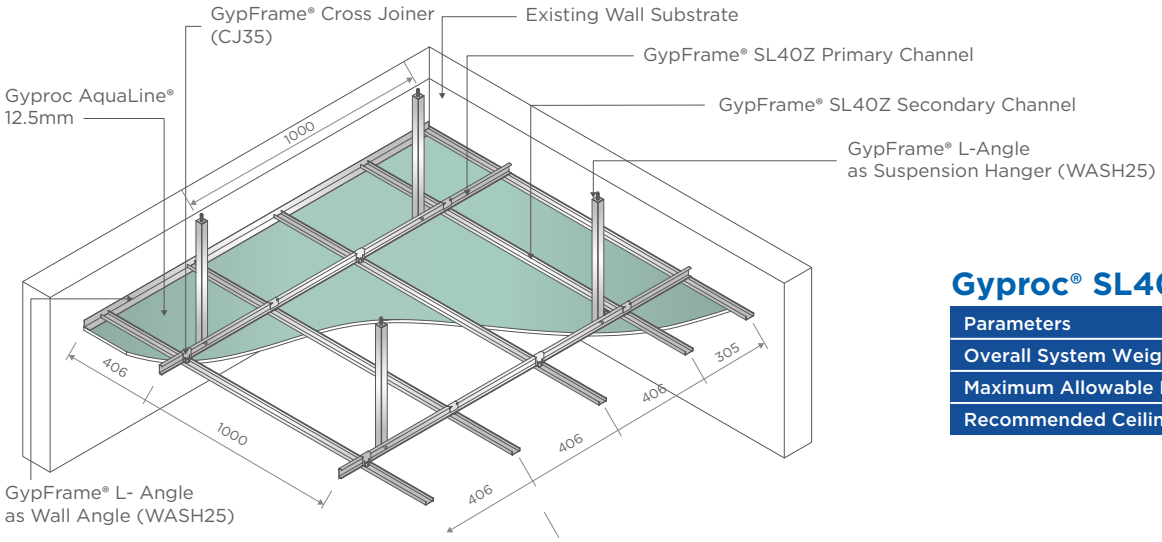
Gyproc® AQUA Concealed Ceiling System

A concealed suspended ceiling system with moisture resistance properties,offer a cost-effective and innovative alternative to traditional building material.



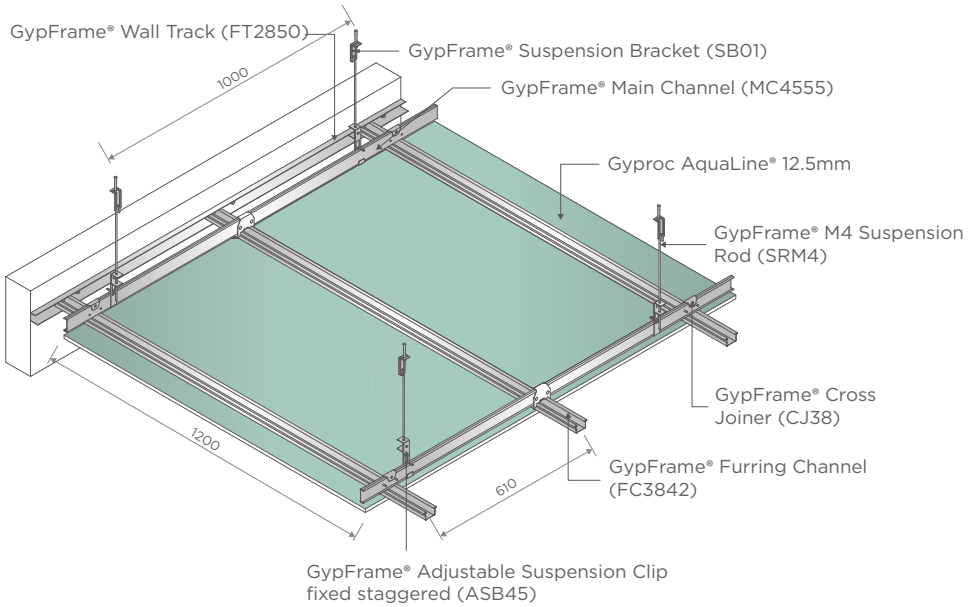
Gyproc® SL35Z

Parameters	Values
Overall System Weight	8.50kg/m²
Maximum Allowable Loads	3.00kg/m²
Recommended Ceiling Drop	≤ 1.50m



Gyproc® SL40Z

Parameters	Values
Overall System Weight	11.30kg/m²
Maximum Allowable Loads	3.00kg/m²
Recommended Ceiling Drop	≤1.50m



Gyproc® GypLock™ Standard

Parameters	Values
Overall System Weight	11.30kg/m²
Maximum Allowable Loads	3.00kg/m²
Recommended Ceiling Drop	>1.50m up to 3.00m

**For ceiling drop more than 3.00m please contact Gyproc® for recommendation*

SCAN ME

SAINT-GOBAIN

Saint-Gobain Malaysia Sdn. Bhd(636775-T)
No.1, Jalan Sultan Mohamad 4
Kawasan Perindustrian Bandar
Sultan Suleiman, Port Klang,
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www.gyproc.my

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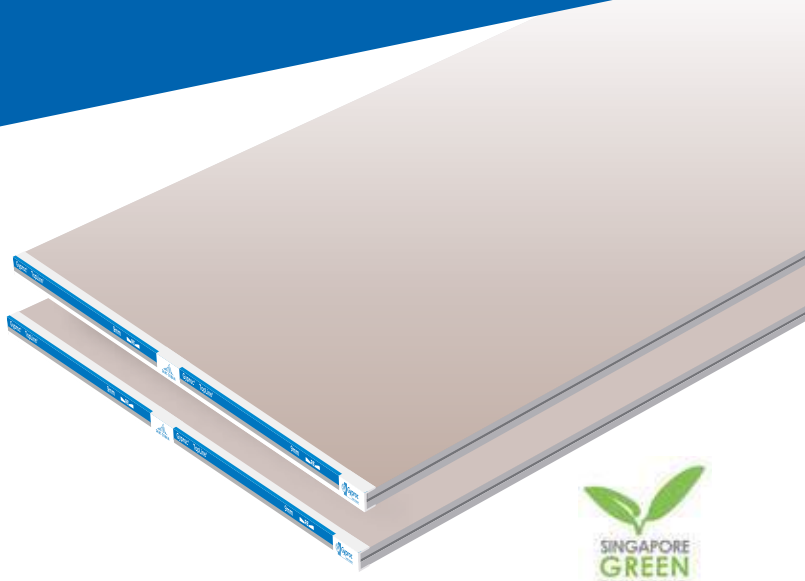
AquaLine® . 0520 . R0

Gyproc
SAINT-GOBAIN

Easy to transport (boards) | Energy efficiency | Environmentally friendly | Site productivity gain | Stability

Recycling certified | Smooth manual finish | Inspiring Space | Superior aesthetic & design

TopLine®



TopLine®

TopLine® is a standard gypsum board with ivory face paper that displays a smooth surface. It has superior thermal insulation and non-combustible properties that are compliant with international standards.

Ceiling systems built with TopLine® opens a world of unlimited design possibilities allowing you to construct that beautiful architecture which encompasses pleasant acoustics, safety and reliability.

SINGAPORE GREEN BUILDING PRODUCT SGBC LEADER

SGBP 2018-1224

CHARACTERISTICS

A standard gypsum board with an aerated gypsum core encased and firmly bonded to stronger paper liners.

RECOMMENDED USE

Suitable to be used in dry areas ceiling applications.

PRODUCT FORMAT

Thickness	9mm	
Nominal Weight	5.25kg/m²	
Nominal Sheet Size	1220mm x 2440mm	
Edge Type	Recessed Edge 	Square Edge 

FIRE RATING

- Non-combustible in accordance to BS 476: Part 4
- Low fire propagation in accordance to BS 476: Part 6
- Class 1 surface spread of flame in accordance to BS 476: Part 7
- Classified as Class 0 material in accordance to local building regulations
- Low flame spread index <25 in accordance to ASTM E84

MANUFACTURING SPECIFICATIONS

- In compliance with ASTM C1396M and BS EN 520

AESTHETIC PROPERTIES

- Highly flexible in creating the highest standards of design
- Crack-free
- Easily decorated with paint, cornices, etc.
- Seamless and smooth finishing

HANDLING AND WORKABILITY

- Lightweight
- Quick and easy installation
- Applicable for curved ceiling installation. Minimum bending radius of 1.8m

HEALTH AND ENVIRONMENTAL CONTRIBUTIONS

- Made from 100% natural gypsum
- Recyclable material, hence environmentally friendly and certified with Green Product Certification Scheme
- Does not produce toxic fumes or hazardous substances that are harmful to health
- Product is manufactured in a facility certified to standards of ISO 14001 and ISO 9002.

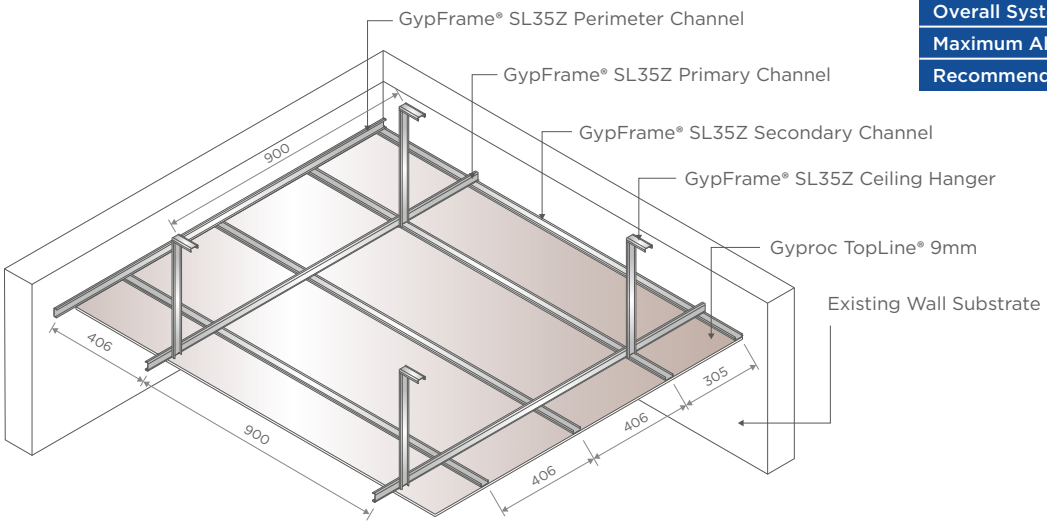
SAINT-GOBAIN

Gyproc® CLASSIC Concealed Ceiling System

A concealed suspended ceiling system that gives a beautiful, homogeneous appearance, smooth finish without visible joints.

Gyproc® SL35Z

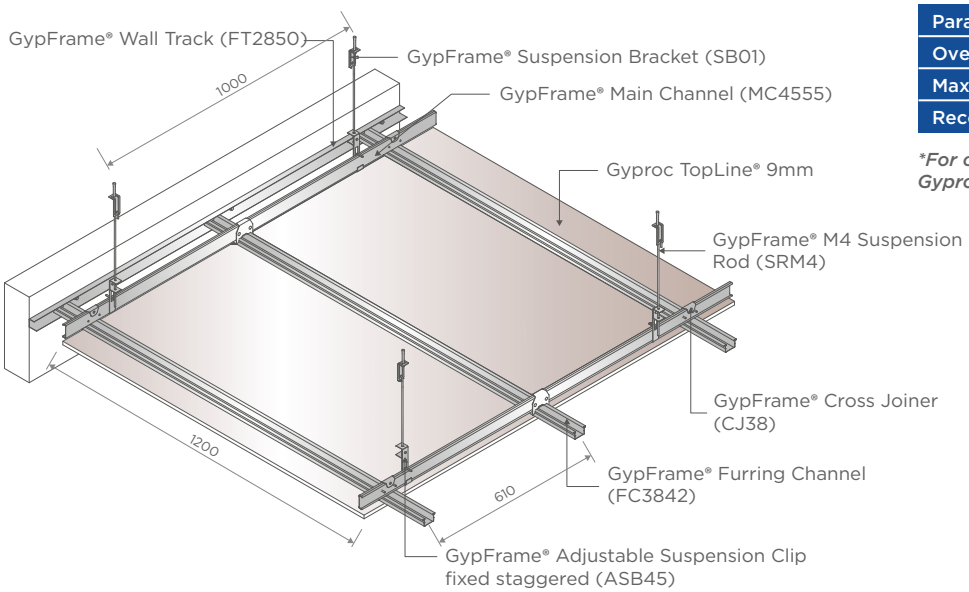
Parameters	Values
Overall System Weight	7.30kg/m²
Maximum Allowable Loads	3.00kg/m²
Recommended Ceiling Drop	≤ 1.50m



Gyproc® GypLock™ Standard

Parameters	Values
Overall System Weight	7.80kg/m²
Maximum Allowable Loads	3.00kg/m²
Recommended Ceiling Drop	> 1.50m up to 3.00m

**For ceiling drop more than 3.00m please contact Gyproc® for recommendation*





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Singapore 608526
Tel: +65 6330 8288
www.gyproc.sg

TopLine® . 0520 . RO

Gyproc
SAINT-GOBAIN

Smooth mechanical finish | Easy to transport (boards) | Energy efficiency | Environmentally friendly | Site productivity gain | Stability

Recycling certified | Smooth manual finish | Inspiring Space | Superior aesthetic & design

Casoprano®



Casoprano®

Gyproc® range of Casoprano® series ceiling tiles provide a wide selection of pre-formed surface designs and textures which allow the creation of outstanding ceiling art structures. Casoprano® ceiling tiles are practical for commercial use while incorporating high level of aesthetics.

Casoprano® ceiling tiles are manufactured to the highest standards of quality and in accordance to international manufacturing standards.

RECOMMENDED USE

Suitable for use in grid ceiling applications.

PRODUCT FORMAT

Thickness	9mm
Nominal Weight	5.25kg/m²
Nominal Sheet Size	603mm x 1213mm, 603mm x 603mm, 595 mm x 1195mm, 595mm x 595mm
Edge Type	Square Edge 

FIRE RATING

- Non-combustible in accordance to BS 476: Part 4
- Low fire propagation in accordance to BS 476: Part 6
- Class 1 surface spread of flame in accordance to BS 476: Part 7
- Classified as Class 0 material in accordance to building regulation
- Low flame spread index <25 in accordance to ASTM E84

MANUFACTURING SPECIFICATIONS

- In compliance with ASTM C 1396M and BS EN 520

AESTHETIC PROPERTIES

- Highly flexible in creating the highest standards of design
- Crack-free
- Easily decorated with paint
- Seamless and smooth finishing

HANDLING AND WORKABILITY

- Lightweight
- Quick and easy installation

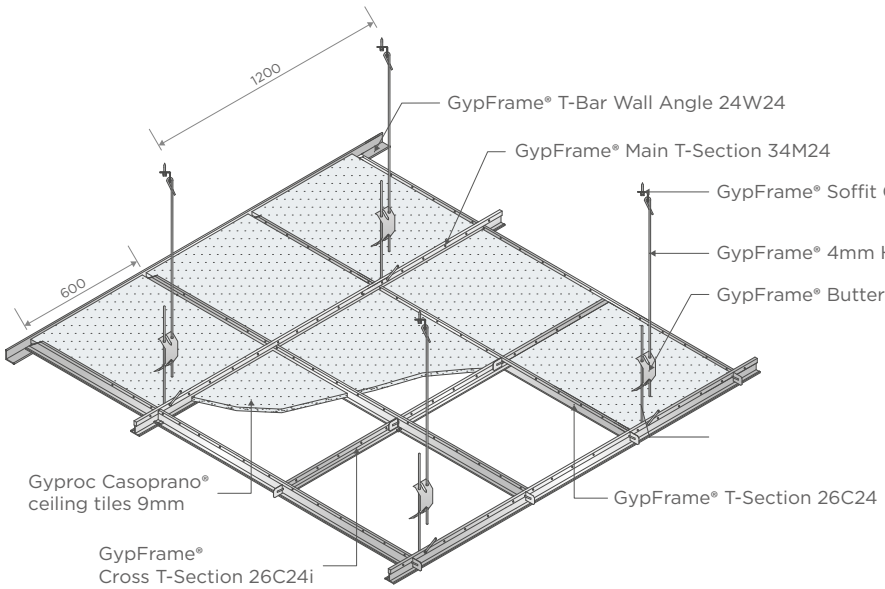
HEALTH AND ENVIRONMENTAL CONTRIBUTIONS

- Made from 100% natural gypsum
- Recyclable material, hence environmentally friendly
- Does not produce toxic fumes or hazardous substances that are harmful to health
- Product is manufactured in a facility certified to standards of ISO 14001 and ISO 9002.

SAINT-GOBAIN

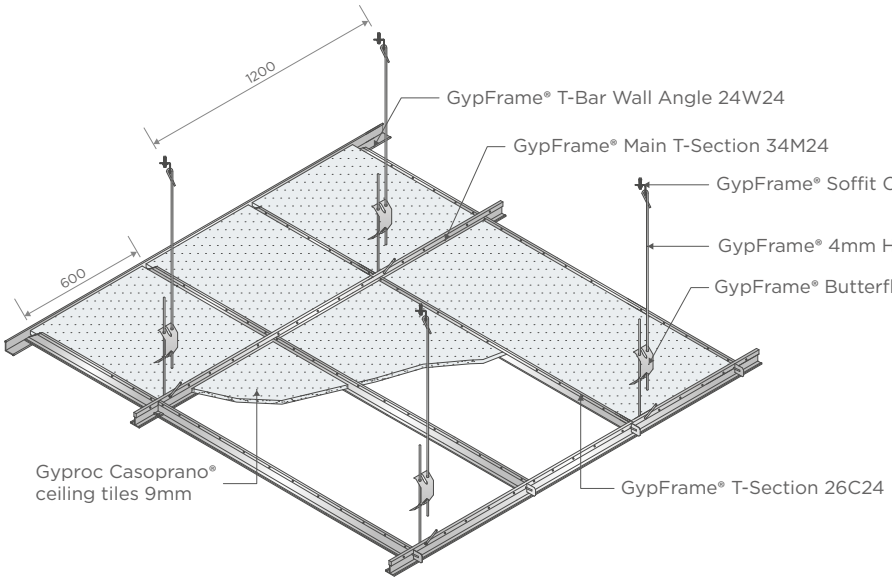
Gyproc® Grid Ceiling System

Gyproc® Grid Ceiling System is a lay-in grid system based on lightweight gypsum board and metal frame. It use gypsum ceiling tiles for the perfect finish and combines the durability, unique aesthetics look with various ceiling tiles design. The system is perfect to use for regular ceiling type and suitable for all ready cut-boards.



Gyproc® Grid Ceiling 600mm x 600mm

Parameters	Values
Overall System Weight	8.50kg/m²
Maximum Ceiling Span (mm)	Unlimited
Fire Performance (Board)	Class O



Gyproc® Grid Ceiling 600mm x 1200mm

Parameters	Values
Overall System Weight	8.50kg/m²
Maximum Ceiling Span (mm)	Unlimited
Fire Performance (Board)	Class O



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Casoprano® . 0520 . R0

Gyproc
SAINT-GOBAIN

Economic saving | Energy efficiency | Environmentally friendly | Site productivity gain | Stability

Recycling certified | Smooth manual finish | Inspiring Space | Superior aesthetic & design

ProTop®



ProTop® All Purpose

Ready-Mixed Joint Compound

ProTop® All Purpose Ready-Mixed Joint Compound is a specially formulated jointing compound for board jointing. It can be used for all phases of gypsum plasterboard jointing with ease.

ProTop® All Purpose Ready-Mixed Joint Compound provides consistent and excellent workability and superior finishing.

It is formulated for the following applications with the following properties:

JOINTING

- Suitable for all phases of plasterboard jointing
- Excellent crack resistance
- Excellent workability
- Low shrinkage
- Easy sanding

SKIMMING

- Excellent smooth finishing for painting preparation
- Superior white finishing
- Good workability for ceiling work

Packaging	28kg nominal weight
Coverage area for jointing	55.48sqm
Storage	ProTop® All Purpose Ready-Mixed Joint Compound should be stored upright in a dry and shaded place away from direct sunlight. Avoid freezing conditions. The seal needs to be tightly secured.



ProTop® 2-in-1

Joint Filler/ Finish

ProTop® 2-in-1 Joint Filler/ Finish is a specially formulated setting type of joint filler/finish for board jointing and cornice application. It can be used for all phases of gypsum plasterboard jointing with excellent finishing quality.

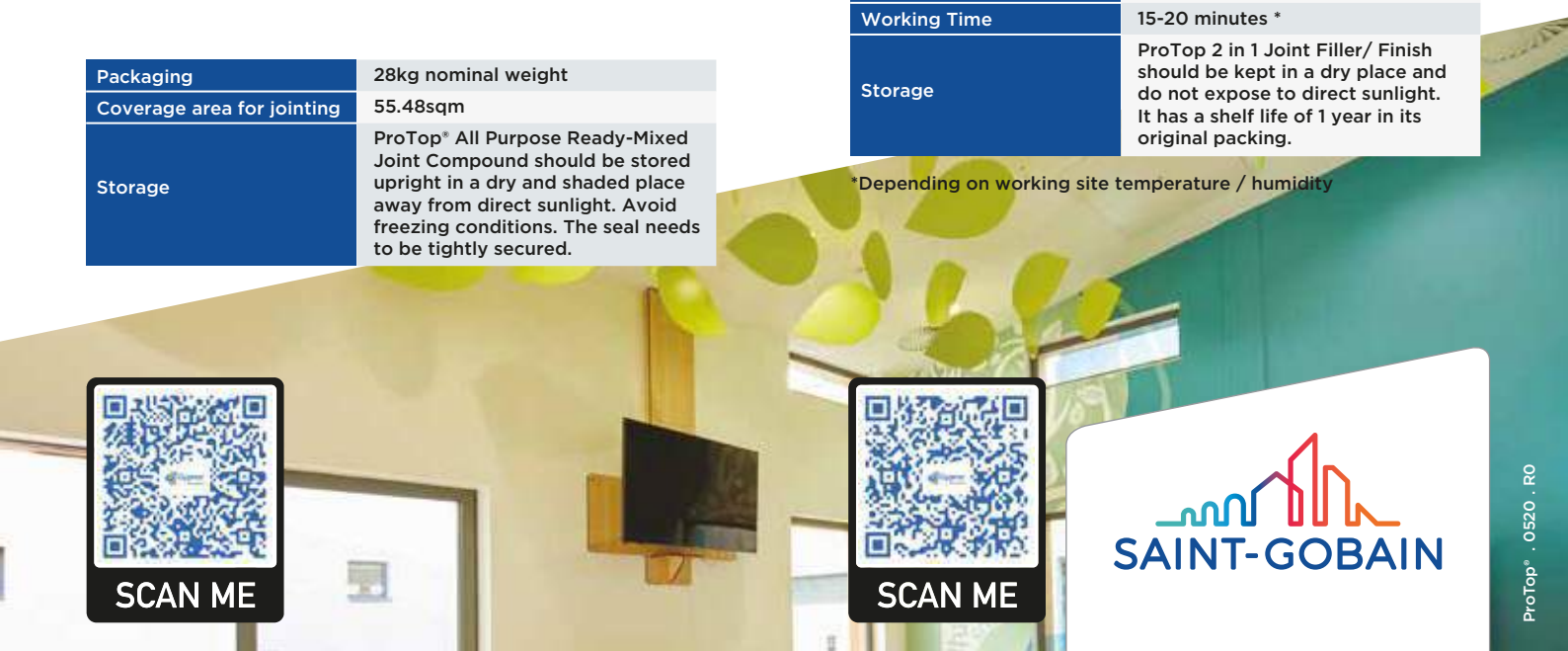
ProTop® 2-in-1 Joint Filler/ Finish is ideal for fixing cornices and moulding coves on various kind of ceiling surfaces. The consistent setting time provides excellent workability and superior build quality.

SPECIALLY FORMULATED FOR:

- Easy plasterboards jointing
- Cornice and cove adhesion
- Easy mixing and application
- Easy sanding
- Low shrinkage
- Increased crack resistance
- Excellent workability

Packaging	20kg nominal weight
Setting Time	12-15 minutes *
Working Time	15-20 minutes *
Storage	ProTop 2 in 1 Joint Filler/ Finish should be kept in a dry place and do not expose to direct sunlight. It has a shelf life of 1 year in its original packing.

*Depending on working site temperature / humidity



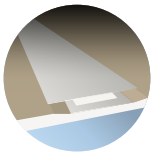
SCAN ME

SCAN ME

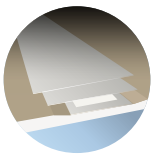
SAINT-GOBAIN



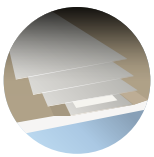
GypWall® Jointing and Finishing
(ACCORDING TO EUROGYPSUM STANDARD)



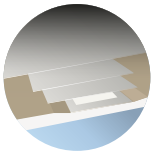
Q1
Fill the joints between the boards with ProTop® series of jointing compound and reinforcement tape.



Q2
Q1+ leveling the joint to the board surface with ProTop® series of jointing compound.



Q3
Q2+ a tight coat (< 1mm) over entire board surface with ProTop® series of jointing compound.



Q4
Q2 + a skimming coat of ProTop® series of jointing compound (> 1mm) over entire board surface.

Installation Overview



STEP 1
Apply Gyproc® Jointing Compound to the board joints and internal corners.



STEP 2
Bed Gyproc® paper tape firmly into the jointing compound.



STEP 3
Trowel apply a second coat of jointing compound feathering out beyond the previous application and spot the screws head. Allow to dry.



STEP 4
Trowel apply a third coat of jointing compound feathering out beyond the previous application and spot the screws head. Allow to dry.



STEP 5
For external corners, repeat step 1 to 4 using Habito® Levelline or Drywall Corner Bead for corner reinforcement. Use Edge Bead to protect cut ends of boards.



STEP 6
Sand each joint application as required to achieve a smooth surface.

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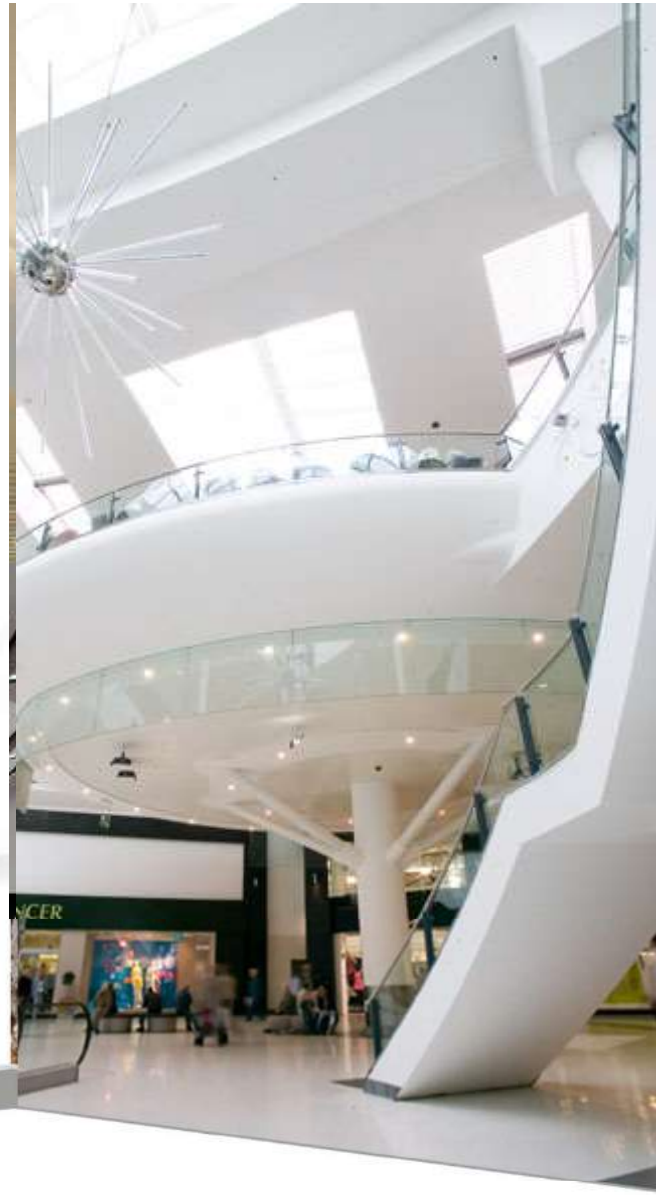
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Gyproc
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Gypsum Plasterboard
vs
Plasterglass



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Facts about Gyproc



Production of Gyproc Board





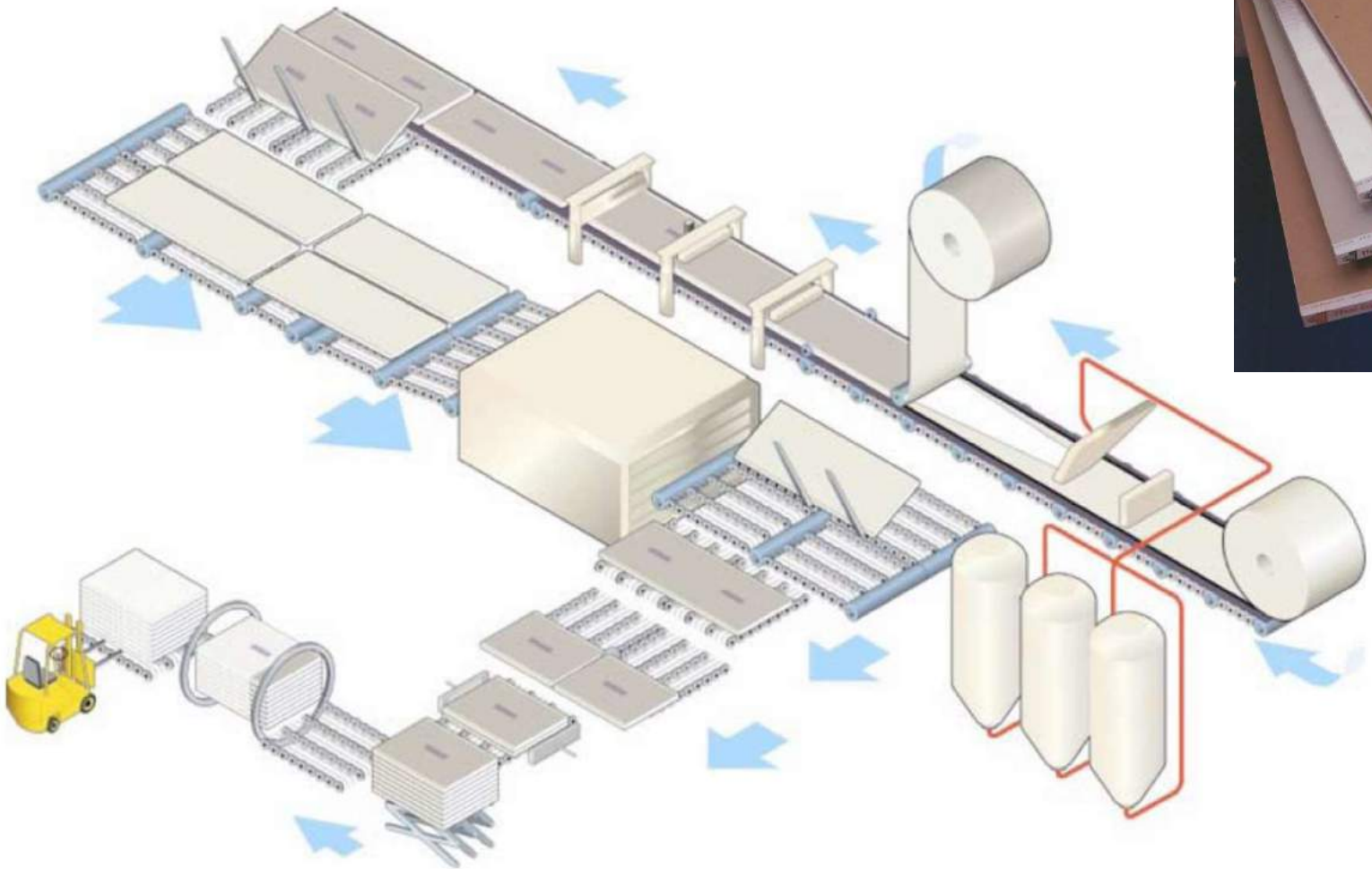






Gyproc's Plasterboard – A Highly Engineered & Machine-Made Product





Site Installation of CasoLine Concealed Ceiling System









Plasterglass Fabrication

Production of Plasteglass Board











Production & Site Installation of Plasterglass Board











Properties	Plasterboard	Plasterglass
Product Features	Guarantee on non-crack surface.	Brittle, prone to crack.
	Weight: 9mm thk – app.5.6 kg/m2	Weight: 9mm thk – app.9.32kg/m2
Availability	Consistent supply from factory	Inconsistent supply subject to weather condition.
Performance	Offers fire resistance from ½ hours to 2 hours, depending on type of board and system used.	Used for aesthetical reason only.
	Offers acoustic performance for high Sound Transmission Cohesion (STC) and Noise Reduction Cohesion (NRC)- depending on type of board and system used.	Does not have acoustics and fire performance.
	Aesthetic: smooth and crack-free finishing	**Non hygienic – fibre glass particles tends to drop-off the ceiling which may cause health issue. The fibre glass particles can entering our respiratory system easily and will make people sick.**
	Moisture Resistant Board can be used in high humidity area.	
	Impact Board can achieve severe duty with a single layer of board which it is suitable to be used in high traffic areas.	
Quality Standards	Conform to BS, ASTM international standards.	Due to backyard process, the quality control can be an enormous issue.
		Untested system.
		Thickness can varies and inconsistent.
Site Handling	Easy to handle. Can be cut easily	Brittle and easy to break. Difficult to cut
Installation Methods	Plasterboard system includes metal framing, fixing and jointing for finishing.	No specifications in installation
	For Gyproc's concealed ceiling, metal framing interval is 400mm in accordance with international standards	No specific framing or fixing standards.
	Used ready-mix joint compound & high quality Paper tape for jointing. Ensures a cleaner construction site.	Used stopping compound (powder form) for jointing. Required mixing on site – messy and wet method.
	Required less joints as compared to plasterglass.	Required more joints as compared to plasterboard as the plasterglass size is 4' x 6'.
		Reinforcement is required by throwing strands of fiber-mesh onto the back of the board upon completion of installation.

Properties	Plasterboard	Plasterglass
Generic Name	Plasterboard, Gypsum Board, Drywall Lining, also known as Gypboard (in Australia & New Zealand)	Plasterglass, Fibrous Plaster, plaster ceiling or fibre reinforced gypsum
Thickness	9mm, 12.5mm, 15mm, 16mm, 19mm	8.5mm – 12mm
Size	Board: 4' x 8' (odd sizes can be custom made, i.e. 4' x 6', 4' x 9')	Board: 4' x 6'
	Ceiling tile: 2'x2', 2' x 4'	Ceiling tiles: 2'x2' , 2'x4'
Description	Gypsum is produced into a slurry and then sandwich between 2 papers: high grammage, heavy duty face & back liner paper.	Gypsum slurry is poured into a mould together with chopped fiberglass. No paper sandwiched.
Production Technology	A highly engineered and machine made product.	A cottage industry that involves number of labours.
		The sheets are often cast by mould. The sheets are cast on benches. Fiberglass strands are applied to the gauge and pressed into the wet plaster manually.
		Once the sheets have set hard enough, they are lifted from the mould and hung out to dry.
Types of board	Regular Board, Fire Resistant Board, Moisture Resistant Board, Impact Resistant Board	Regular, Moisture Resistant
Applications	Concealed Ceiling, Drywall Partition, Drywall Lining, Grid Ceiling Tiles	Concealed Ceiling, Grid Ceiling Tiles; not suitable for wall or wall lining
Product Standards	Comply to **BS 1230 Part1:1985** requirement.	No Class O and not comply to any certifications.
	Comply to **ASTM C36.**	
	Non-combustibility, **Class O product.**	
	ISO90001 for plasterboard manufacturer.	
IBS Component	**IBS components.**	Not part of the Governments' IBS direction.
Green Label	With **Green Label**	Not Green

Plasterboard & Plasterglass at One Glance

Gyproc TopLine™	Properties	Fibrous Plasterglass
✓	Customized sizes and thickness for applications	✗
✓	Smooth and crack free finishing	✗
✓	Quality standards conform to BS, EN, ASTM international standards	✗
✓	Fire resistance	✗
✓	Ease of handling and cutting	✗
✓	Installation based on specification	✗
✓	Minimum joints with no additional reinforcement	✗
✓	Dry construction	✗
✓	Highly engineered and with precision technology in factory	✗
✓	Green and Environment friendly material	✗