

# FIRE TECHNOLOGY SERVICES

# **Confidential Report**



Notified Body for PPE Testing & Certification I.D. No. 0339



Part of Advanced Materials Services Ltd

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# **CONFIDENTIAL REPORT**

Ref: 004/1219/5 Page 1 of 2

Date: 17 February 2004

Client: AB Ludvig Svensson

SE-511 82 Kinna

Sweden

Job title: Flammability testing of one material

Client's order or ref no: Letter 30 January 2004

Date of receipt: 3 February 2004

Description of sample(s): One 100% Trevira CSP material, referenced:

2773 Topic

Work requested: Flammability testing according to BS 5867: Part 2: 1980 (1993)

Type B performance requirements





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Ref:

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Page 2 of 2

Client:

AB Ludvig Svensson

Sample:

One 100% Trevira CSP material, referenced:

2773 Topic

Performance Standard:

BS 5867: Part 2: 1980 (1993)

Type B performance requirements

Test Method:

BS 5438: 1976 Test 2

Flame application time = 15s

Cleansing Pretreatment:

None (tested in the "as received" condition)

Summary of Results:

"The results may not apply to situations where there is restricted air supply or prolonged exposure to large sources of intense heat as in a conflagration."

Specimen	11	2↓	3↑	4->	5←	6→
Flame reached an edge	No	No	No	No	No	No
Hole reached an edge	No	No	No	No	No	No
Flaming debris	No	No	No	No	No	No
Duration of flaming, s	0	0	0	0	0	0
Duration of afterglow, s	0	0	0	0	0	0
Vertical hole size, mm	142	137	141	128	130	137
Horizontal hole size, mm	26	25	25	26	25	20

# Assessment:

BS 5867: Part 2: 1980 (1993) Type B performance requirements

No part of any hole nor any part of the lowest boundary of any flame shall reach the upper edge or either vertical edge of any specimen and there shall be no separation of any flaming debris from any specimen.

Tested in the "as received" condition this material <u>complies</u> with the Type B performance requirements of BS 5867; Part 2: 1980 (1993).

Reported by: Jackson (Laboratory Technician)

Countersigned by: P M Eaton (Operational Head)





### CONDITIONS OF SALE

d Materials Services Ltd ("the Company") for the provision of testing, investigation, evaluation, consultancy and The following standard conditions apply to every order accepted by or contract

### DEFINITIONS

- - "Condition" means a condition or clause of these Conditions "Conditions" means the Company's standard conditions of set out in this document (which supersede any earlier set of conditions appearing in the Company's brochure or elsewhere) together with any other special conditions specified on the Quotation or other
  - the Contract" means the Quotation, the Order and the Con
  - s acceptance thereof, together with the Conditions; of reports or test results, the dispatch by the Company of those results or reports by post or other carrier to the Customer and the
  - 'the Customer' means the person specified on the Quotation
  - may be part of the Contract and upon which the Services are to be conducted and shall include any part of them; "the Goods" means the goods, materials and/or other items with the Order means the written order placed by the Customer of
  - Company for the provision of the Services
  - by the Company or any verbal quotation or tender which is subsequently confirmed in writing;
- "the Quotation" means any written quotation or tender subm "the Services" means the services described in the Order to

- OFFER AND ACCEPTANCE
  The Company shall supply and the Customer shall receive the subject to any variation set out in such acceptance, subject to eit All Quotations are made and all Orders are accepted subject to it. es in accordance with any Quotation which is accepted by the Customer, or any Order which is accepted by the Company in writing
- and these Conditions override any other terms, conditions of warranties which the Customer may subsequently seek to impose Company unless expressly accepted by the Company in writing been accepted in writing by the Company.
- No variation or supplement to the Conditions shall be binding o No Contract shall come into existence until the Customer's Ord
- 30 days from the date when given (or such longer period as the Company specifically agrees in writing) and may be withdrawn by the Quotations shall be available for acceptance for a maximum per Company within such time period at any time by written or oral If any statement or representation has been made to the Custon
- or relies other than in the documents enclosed with the Quotation or to or endorsed on the Order and in any such case the Company may out that statement or representation in a document to be attac confirm, reject or clarify the point and submit a new Quotation
- other document issued by the Company shall be subject to correction rature, quotation, price list, acknowledgement of Order, invoice
- without any liability on the part of the Company.

  The Company shall be at liberty to withdraw from any negotiation. ig without being under any liability whatsoever to the Customer e storage, application or use of the Goods which is not confirmed in otherwise until such time as the Contract shall have become
- vees or agents to the Customer or its employees or agents as Any advice or recommendation given by the Company or its evertimg by the Company is followed or acted upon entirely at the stomer's own risk, and accordingly the Company shall not be liendation which is not so confirmed

# ORDERS AND SPECIFICATIONS

- by the Company unless and until confirmed in writing by the C
- ORDERS AND SPECIFICATIONS
  NO Order submitted by the Customer shall be deemed to be acce
  The Customer shall be responsible for ensuring the accuracy of
  failure to do so will allow the Company to charge the Customer any's authorised representative ormation to enable the Company to proceed with the Contract erms of the Order and shall give the Company any necessar ditional price for any delay or to terminate the Contract imme
- The Customer shall indemnify the Company and its sub-control become liable if any work done in accordance with the Customer by the Company or its sub-contractors to which the Company may against all claims, damages, costs, penalties and expenses in cifications or requirements involves an infringement of a reg d design, trademark, patent or other intellectual property right, any and on terms that the Customer shall indemnify the Company in ed by the Customer except with the written agreement of the
- full against all loss (including loss of profit), costs (including the All Services are confidential to the Customer and any report of neurred by the Company as a result of cancellation.

  by the Customer (in whole or in part) to any third party without the ificate issued by the Company shall not be issued or reprodu ompany's written authorisation
- If a Customer wishes to copy any report produced by the Compa its consent in its absolute discretion. Subject as aforesaid only used in advertising or promotional literature without the Company part of the Services, it must obtain written pe n each occasion. The Company shall be entitled to withhold ons or additions are allowed. Results supplied in reports shall not be lete reports may be copied and passed to third parties. No on
- If the presence of the Company's staff will be required at a court or The Customer shall and must inform the Company at the outso other judicial or quasi-judicial hearing, or the report required e Services are known to be required for the purpose of litigat the presence of the company's start with be required at a court or ider to provide time for discussion between expert witness and legal is pursued or defended. idence in a dispute, ample advance notification is required.

  The Company must be shown full particulars of any claim w
- Results quoted on reports issued by the Company refer only Goods and the Customer is advised to ensure that a suffici representative and sufficiently large sample, securely packaged and
- port are not included in the UKAS Accreditation Schedule for nany and are outside the scope of UKAS accreditation Any opinion, interpretation or comments marked "Not UKAS" Fests marked "Not UKAS" accredited in a report are not include
- and are outside the scope of the Company's accreditation, erstanding between the Company and the Customer in respect of the the UKAS Accreditation Schedule for the Company's laborate
- Where a report is produced as part of the Services, the report Services and supersedes all other agreements, statements, rep er with the Contract shall constitute the entire agreement and ay have been made verbally by or between the parties and all prior ations or warranties (other than any made fraudulently) while
- representations and expressions of opinion by any party (or its Save as specifically and expressly set out in any written repo to any other party (or its agent).
  sued by the Company, the Company gives no warranty that the Goods (being of the Customer's design and manufacture) will be of

### PRICE

- or in the absence of any price being quoted, on the Company subject to change without prior notice. A verbal Quotation sha courier charges or duties, which the Customer shall be addition rent list price ruling at the time the Order was made. Until an Order 41 ly be binding to the extent it is confirmed in writing liable to pay to the Company.
- 42 at any time before completion of the Services, to increase the tool of the Company (such as, without limitation, any increase ag as a result of any error or omission or changes deemed near of the Services to reflect any increase in the cost to the Company in cost of labour, raw materials, overheads, or currency), any change in The Company reserves the right, by giving notice to the Cus npletion dates, quantities, or specifications for the Goods y by the Customer, or any delay or interruption in the Contract not

- tless otherwise agreed in writing, the Company shall be entitled to invoice the Cust er on completion of the Services or, where the Services are of a long term nature, on an interim basis from time to time
- The Company reserves the right, at its option, to require payment in part or in full for the Services prior to the work being done and reserves the right to withhold any test result or certificate until such
- Unless otherwise agreed by the Company in the Contract the term.
  The time of payment of the price shall be of the essence of the Co 5.3 5.4 of payment shall be 30 days from the date of invoice. Receipts for payment will only be issued on request.
- - her against the Company unless and until such claims are accepted in full by the Company in writing and the Customer shall not withhold ny part of any sum which has become due for payment
- hether under the Contract or otherwise) on the due date then, without prejudice to any other right or remedy available to the Company, the ompany reserves the right to:5.6.1 cancel the Contract so far as any Services remain

  - my judgement) on the amount unpaid, at the rate of 3 per cent per annum above National Westminster Bank plc base rate from time to being treated as a full month for the purpose of calculating interest.)

# COMPLETION

- he Services shall be performed at such place to be dete n the Company's accreditation rules
- The Services will be completed at the time of Delivery of the C Unless otherwise specifically agreed in writing, the Company s
- ing's final report.

  be obliged only to complete the work within a reasonable time in the Customer shall not be able to cancel the Contract on account g regard to its work load at the time.
- any delay howsoever cause
- Where the Company is unable to carry out the Services due to complete the work within a reasonable time shall be suspended instances beyond its reasonable control and it gives notice to the Customer informing it of the relevant circumstances, its obligation to those circumstances subsist, subject to Condition 6.
- On receipt of a notice under Condition 6.5 the Customer may its instructions by written notice to the Company and neither party shall then be under any further liability to the other, except that the ustomer shall pay for any tests the results of which have alread
- 7. 7.1 the risk of damage to or loss of the Goods shall only pass to the Company, in the case of Goods to be delivered at the Company's premises, at the time when the Goods are unloaded safely and are in the Company's possession and control
- Risk shall pass back to the Customer ten business days follow ne date of the Company's final invoice and the Company st onger be responsible for the insurance or storage thereof, save where, and to the extent that, any rules and regulations applicable to the Unless specifically agreed otherwise in writing it shall be at the mpany provide for or require the Company to store a sample of cretion of the Company as to whether the Services require desi Goods with the final report. tive testing and in such circumstances, where it determines that this is
- required, the Company shall have the right to destroy the Good Without prejudice to any other right of disposal the Company ave under these Conditions, the Company shall have the right stroy Goods after six months have expired from the completion of the
- Services save where the Services are for certification or legal c. When Goods have not been collected by the Customer following whereby the Company shall have the right to destroy the Goods ten years or six years respectively written request to do so from the Company the Comp entitled to render a reasonable charge to the Customer for the cost of

- ary before delivering them to it. ny, unless the Customer has informed the Company to the co
- part of the Services and to collect them upon comp t is the Customer's responsibility to deliver the Goods which form

# TRAINING

- training course or conference if, in its opinion, insufficient be ngs have been received to justify proceeding with it, or the services of suitable speakers or instructors are not available for any reason the Company reserves the right to substitute speakers or instrucwithout prior notice
- personnel alone) not less than I week before its date, the fee paid will than a special conference or seminar arranged for that Custo lays' notice or for any cancellation by the Customer of a seminar or be returned less a deduction of 20% for administration charges No refund can be made for cancellations received at less than
- 93 The Company shall not be liable to the Customer for any loss or damage suffered as a result of the information provided at any conference or seminar being false, inaccurate, out of date or misleading in any respect.

# BTTG Testing and Certification Limited.

- Where a Customer withdraws from any conference or seminar (other than a special conference or seminar arranged for that Customer's personnel alone) not less than I week before its date, the fee paid will be returned less a deduction of 20% for administration charges. No refund can be made for cancellations received at less than 7 days' notice or for any cancellation by the Customer of a seminar or
- conference arranged for a Customer's personnel alone.

  The Company shall not be liable to the Customer for any loss or damage suffered as a result of the information provided at any conference or seminar being false, inaccurate, out of date or misleading in any 0.3
- LIMITATION OF LIABILITY
- Where the Goods are delivered to the Company for the Services and such Goods are, under the Contract, returnable to the Customer then if the Company is unable for any reason to return the Goods to the Customer (taking into account Condition 7.3), the Company's liability in respect of the missing Goods shall not exceed the replacement cost of goods of the same description, if 10.1 available in the United Kingdom, or if they are not available there, their cost to the Customer.

  Where the Customer supplies inconsistent instructions on any matter relating to the Services, the Company shall not be liable for any loss, damage, error or mistake which results from following
- 10.2
- any of those instructions in good faith.

  Subject to Condition 10.11 the Company shall not be liable to the Customer for any loss or damage, whether direct, consequential or otherwise, resulting from any inaccuracy in the results 10.3
- reported unless caused by the Company's negligence.
  Subject to Condition 10.11 and further to Condition 3.5 and 3.6, the Company shall not be liable to any third parties who rely on the information given in any report produced as part of the 10.4
- Reports are based on the law, methods, technology and conventional wisdom and knowledge available or current at the time and the Company shall not be liable to the Customer for any changes 10.5
- in the same which become available after the date of any such report.

  Subject to Condition 10.11 in no circumstances shall the Company be liable to the Customer, in contract, tort (including negligence or breach of statutory duty) or otherwise howsoever, and 10.6 whatever the cause thereof:
  - 10.6.1 for any increased costs or expenses:

  - for any loss of profit, business, contracts, revenues or anticipated savings; or for any special indirect or consequential damage of any nature whatsoever; 10.6.3
- 10.0.3 It any special indirect or consequencia manage or any nature windover; arising directly or indirectly out of the provision of the Services or of any error or defect therein, or of the performance, non-performance or delayed performance of the Company. The Customer spress with the Company that if the Customer shall suffer loss or damage as a result of any breach of any of the terms of the Contract by the Company or its servants or agents or as a result of the negligence of the Company or its servants or agents then the liability of the Company in respect of such loss or damage (taking into account Conditions 10.1 to 10.6) shall be 10.7 limited to the lower of the following:-
- the actual amount of any loss or damage suffered by the Customer; or a sum which is equal to 10 times the price of the Services charged to the Customer; or 10.7.2
- 10.7.3
- 10.8
- a sum which is equal to 10 times the price of the Services charged to the Customer; of
  the sum of one million pounds (£1,000,000).

  The limitation of the liability of the Company as referred to in Condition 10.7 shall subsist indefinitely notwithstanding the termination or completion of the Contract.

  The Customer shall be responsible for arranging any insurance cover and paying all premiums to afford protection in respect of any loss or damage which it may suffer as a result of any breach
  failure or negligence upon the part of the Company or its servants or agents as referred to in Condition 10.7.

  The limitation of liability contained in Condition 10.7 shall extend and apply not only to the Company but also to its servants and duly authorised agents. 10.9
- 10 10
- The limitation of liability contained in Condition 10.7 shall not apply to any liability of the Company for any death or personal injury arising as a result of the negligence of the Company, as defined by Section 1.1 of the Unfair Contract Terms Act 1977. 10.11
- 11.1
- defined by Section 1.1 of the Unfair Contract Terms act 1977.

  ACCEPTANCE OF LIMITATION OF LIABILITY BY THE CUSTOMER

  THE CUSTOMER AGREES AND ACCEPTS THAT, WITH REGARD TO THE LIMITATION OF LIABILITY CONTAINED IN THE PRECEDING CONDITION, SUCH LIMITATION OF LIABILITY IS PERFECTLY FAIR AND REASONABLE HAVING REGARD, INTER ALIA, TO THE FOLLOWING CIRCUMSTANCES:

  11.1.1 THAT THE POTENTIAL LOSSES WHICH COULD OR MIGHT BE CAUSED AS A RESULT OF ANY BEFACH OR NEGLIGENCE AS REFERRED TO IN CONDITION 10 ARE GREATLY IN EXCESS AND WHOLLY DISPROPORTIONATE TO THE AMOUNT WHICH IS BEING CHARGED BY THE COMPANY TO THE CUSTOMER IN RESPECT OF THE PROVISION BY THE COMPANY OF THE VARIOUS SERVICES REFERRED TO IN THE CONTRACT;
  - 11.1.2
  - RESPECT OF THE PROVISION BY THE COMPANY OF THE VARIOUS BERVICES REFERRED TO IN THE COMPANCY.

    THAT THE COMPANY IS ANXIOUS TO KEEP ITS CHARGES IN RESPECT OF THE SERVICES PROVIDED BY IT TO AS LOW A LEVEL AS REASONABLY POSSIBLE, FOR THE BENEFIT OF THE CUSTOMER AND ALL THE COMPANY'S OTHER CUSTOMERS;

    THAT, WHILE THE COMPANY AND THE CUSTOMER REGARD THE LEVEL OF INSURANCE COVER HELD BY THE COMPANY AS BEING ADEQUATE AND REASONABLE THE COST OF ADDITIONAL INSURANCE COVER WOULD BE DISPROPORTIONATELY EXPENSIVE GIVEN THE NATURE OF THE SERVICES AND THE PRICE BEING PAID BY THE CUSTOMER.
    THE CUSTOMER CONFIRMS THAT:

- THE CUSTOMER CONFIRMS THAT:
  IT HAS READ AND FULLY UNDERSTANDS THE TERMS OF BOTH CONDITION 10 AND CONDITION 11;
  IT HAS BEEN OFFERED THE OPPORTUNITY TO PAY A HIGHER CHARGE FOR THE SERVICES IN RETURN FOR THE COMPANY ACCEPTING A HIGHER LEVEL OF 11.2.2 LIABLITY BUT HAS DECLINED TO DO SO:
- ACCEPTS THE LIMITATION OF LIABILITY IN CONDITION 10 ON THIS BASIS. 11.2.3
- The Customer undertakes to indemnify the Company against all claims relating to or arising from the Services supplied to the Customer by the Company in respect of any loss, damage or expense sustained by any third party howsoever caused save for death or personal injury caused in whole or in part by the Company's negligence. 12.1
- DEFAULT OR INSOLVENCY OF CUSTOMER 13.
- 13.1 13.1.1
- Condition 13 applies if:
  the Customer defaults in any of his commitments with the Company; or
  13.1.2 the Customer makes any voluntary arrangement with his creditors or becomes subject to an administration order or becomes bankrupt; or (being a company) goes into liquidation (other than for the purposes of amalgamation or reconstruction); or an encumbrancer takes possession, or a receiver is appointed, of any of the property and assets of the Customer; or
- 13.1.4 the Customer ceases, or threatens to cease, to carry on business; or
  13.1.5 the Company reasonably apprehends that any of the events mentioned above is about to occur in relation to the Customer and notifies the Customer accordingly.

  If Condition 13 applies then, without prejudice to any other right or remedy available to the Company, the Company shall be entitled to cancel any uncompleted Contract forthwith and to withdraw any certificates that have been awarded or offered. 13.2
- In the event of an occurrence as outlined in Condition 13.1, then the Customer shall indemnify the Company against all loss including loss of profit, costs (including the costs of labour and materials used 13.3 and overheads incurred) and all other expenses and damages connected with the Contract and its cancellation.

  If the Customer shall become aware that any of the circumstances mentioned in Condition 13.1 has or is likely to occur, then the Customer shall inform the Company of the occurrence or likely occurrence 134
- The Customer shall indemnify the Company in respect of all legal administration and other costs and expenses resulting from any breach by the Customer of these Conditions, or the Contract or its lawful 135
- termination by the Company. 14. FORCE MAJEURE
- 14.1
- The Company shall not be liable to the Customer or be deemed to be in breach of the Contract by reason of any delay in performing, or failure to perform, any of the Company's obligations in relation to the Contract if the delay or failure was due to any cause beyond the Company's reasonable control. Without prejudice to the generality of the foregoing, the following shall be regarded as causes beyond the Company's reasonable control:-
  - Act of God, explosion, flood, tempest, fire or accident
  - 14.1.2
  - war or threat of war, sabotage, civil disturbance or requisition; acts, restrictions, regulations, bye-laws, prohibitions or measures of any kind on the part of any governmental, parliamentary or local authority; 14.1.3

  - import or export regulations or embargoes; strikes, lock-outs or other industrial actions or trade disputes (whether involving employees of the Company or a third party); 14.1.5
  - difficulties in obtaining raw materials, labour, fuel, parts or machinery; power failure or breakdown in machinery. 14.1.7
  - lack of co-operation by the Customer.
- INTELLECTUAL PROPERTY 15.
- All intellectual property including but not limited to copyright in any report or other written material produced by the Company shall belong to the Company and shall not, save as specifically agreed otherwise in writing, be reproduced or copied in whole or in part. Any report delivered to the Customer by the Company shall remain the property of the Company.
- SUBCONTRACTING
  The Company reserves the right to subcontract the fulfilment of the Order or any part of it and may, at its discretion, subcontract the Services to any laboratory that fulfils the regulations in the current UKAS quality system. For Testing Activities covered by BTTG accreditation to BS EN ISO/IEC 17025:2000, the client will be notified of the requirement for sub-contracting as part of the standard contract 16.1 review process.
- The Company shall subject to these Conditions be responsible to the Client for the actions and omissions of subcontractor, save where the Client or a regulatory authority has specified which subcontractor is 16.2
- 16.3
- The Company shall maintain a register of all subcontractors that it uses for tests and a record of the evidence of compliance with regulatory bodies.

  Where any part of the Services are performed by any person as subcontractor or agent for the Company, these Conditions shall, mutatis mutandis apply in respect of the work or services performed by that
- Any notice or report required or permitted to be given by either party to the other under these Conditions or Services shall be in writing addressed to that other party at its registered office or such other 17.1 address as may at the relevant time have been notified pursuant to this provision to the party giving the notice or report.

  No waiver by the Company of any breach of the Contract by the Customer shall be considered a waiver of any subsequent breach of the same or any other provision.

  If any of the provisions of this Contract is held by any competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions in question shall not be affected thereby.
- The Contract shall be governed by the laws of England and for the purposes of settlement of any disputes arising out of or in conjunction with these Conditions or the Contract the parties hereby irrevocably
- submit themselves to the exclusive jurisdiction of the English Courts
- Submit themselves to the exclusive jurisdiction of the English Courts.

  This Contract is between the Company and the Customer and is not assignable without the consent of the Company.

  The breach of any Holding, Subsidiary, or Associated Company (as defined in Section 736 of the Companies Act 1985 as amended) of the Customer of any of the terms and conditions of any contract agreement or other arrangement with the Company shall be deemed to be a breach of the terms of the Contract and shall entitle the Company to take or refrain from taking all acts and remedies to which it is entitled under these Conditions as if such default had been a breach or default under the Contract.

  Save in the case of subcontractors, or other agents of the Company no person who is not a party to the Contract shall be entitled to enforce any provision of the Contract and to that extent the Contract. 17.6
- (Rights of Third Parties) Act 1999 shall not apply to any provision of the Contract.