



ASBESTOS INFORMATION ASSOCIATION

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PLAINTIFF'S EXHIBIT

CAP-1366

July 2, 1981

MEMORANDUM FOR: Messrs. Beasley, CAPCO
Betts, Atlas Turner
Dougherty, CertainTeed
Reis, J-M
Schwarz, Supradur
von Dohlen, International Bldg. Products
Zimmerman, National Gypsum

SUBJECT: Forwarding of Final Draft AIA Publication
entitled "Test Report - Tools for Working
With Asbestos-Cement Products on Site"

The enclosed final draft publication entitled "Test Report on Tools for Working with Asbestos-Cement Products on Site" has been prepared by the Asbestos International Association's Building and Construction Advisory Panel. The publication has been made available to AIA/NA for review and comment prior to it being finalized and made available for use by the asbestos industry.

Addressees are requested to review the final draft publication at their earliest convenience and forward any comments to this office. Receipt of your comments by July 15, 1981 would be appreciated.

Thank you in advance for your assistance.

Bob Pigg

B. J. Pigg
Executive Director

Enclosure (includes minutes of B&CAP meeting of 5/27/81)

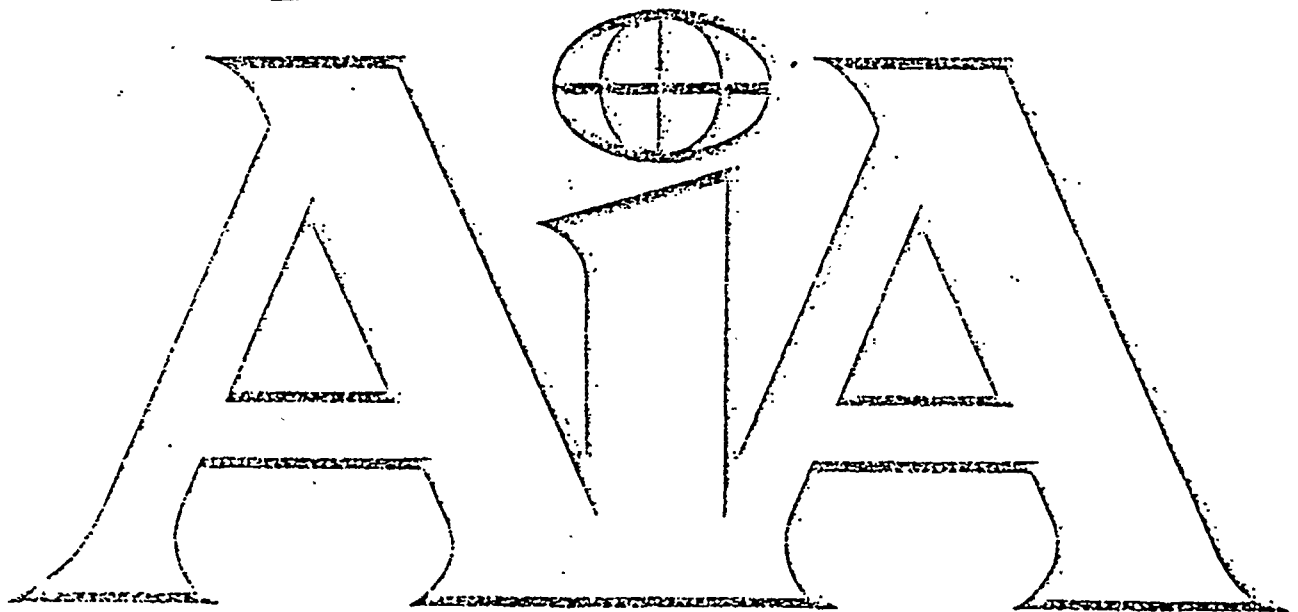
cc: Messrs. Blakeslee, CertainTeed
Jackson, AACPP
Leineweber, J-M

Marsh, R/M (less enclosure)

CAPCO JEN 0012684

TEST REPORT

TOOLS FOR WORKING
WITH ASBESTOS-CEMENT PRODUCTS ON SITE



FINAL DRAFT - 1st June 1981

CAPCO JEN 0012685

INTRODUCTION

The Asbestos International Association has carried out detailed tests identifying methods and tools currently available for working with A.C. products on site so that dust created is reduced to the minimum reasonably practicable level.

The choice of the most appropriate tools for use within each country will depend on custom and practice and national regulations.

TESTING PROCEDURE

In order to test under the most severe conditions and also to ensure reproducibility, all work on asbestos cement products is carried out in a closed room.

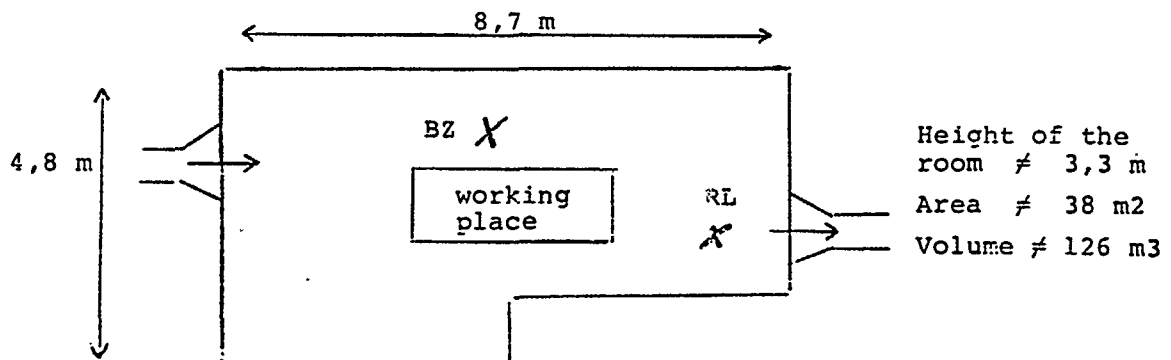
For tools normally used in the open air, a low air flow of less than 0,1 m/sec. in the working zone is introduced by suction. In this way account is taken of the normal dispersal of airborne dust on site in very calm conditions so that the test results obtained are unlikely to be exceeded at any time.

Each test is of one hour's duration. Room level (RL) reading is recorded prior to commencement of test measurement whilst work is being carried out on the asbestos cement products, samples are taken in the workers breathing zone (BZ) and in the room itself.

(see figure below)

The AIA Test Room is located at :

ASBESTOS INSTITUTE FOR OCCUPATIONAL
AND ENVIRONMENTAL SAFETY AND HEALTH
Görlitzer Strasse 1
4040 - NEUSS 1
(Germany)



Sampling and evaluation are in accordance with the AIA Reference Method for the determination of airborne asbestos fibre concentrations at the workplace by light microscopy (Membrane Filter Method (See AIA Publication "Recommended Technical Method n° 1" RTM.1). The operating time for each tool and product involved are recorded.

USE OF TEST RESULTS BROCHURE

The test report shall be used as a reference document when information is required on how to work with asbestos cement products. Under no circumstances shall the test reports be distributed without explanation in order to avoid misinterpretation of the results of the test.

EXPLANATION OF TEST CONDITIONS AND RESULTS OF MEASUREMENTS

Column 1 - MATERIAL

Information is given on the material being worked during the test and the working method chosen. Tests were carried out on typical products. For tools which mainly produce coarse dust, the amount of fine dust which is created depends amongst other things, on the density and thickness of the material being worked.

Column 2 - CUTTING CAPACITY

Information is given on the volume of work achieved during the one hour test period e.g. metre run of cutting carried out.

Column 3 - OPERATION TIME OF TOOL

When a 10 per cent figure is quoted this means that during a test of 1 hour's duration the tool was operating for 6 minutes.

Given the volume of cutting and operation time one can calculate the speed of cutting.

e.g. FESTO saw (catalogue reference 3.6)

(cutting capacity	= 18 m/h
(operation time of the tool = 33 %	= 20 min/h
(speed of cutting	= $\frac{18}{20}$ = 0,9 m/min

Column 4 - DUST EXTRACTION EQUIPMENT

Is the tool equipped with dust extraction ?

For tests carried out on tools requiring dust extraction equipment, the WAP-M.1.S is quoted (except for tools delivered complete with vacuum equipment - see Ref. 3.5).

When other dust extraction equipment is being considered it should have a performance at least equal to the WAP-M.1.S.

Column 5 - AIR_EXCHANGE_IN_TEST_ROOM

If no air exchange is indicated it can be assumed that in actual working conditions the test figures will not be exceeded even in a closed room.

When air exchange is indicated, such tools are normally used in the open air or for intermittent periods indoors. If used in a closed room, test figures could be exceeded.

DUST_CONCENTRATION

Column 6 (breathing zone BZ) indicates the exposure of the operative.

Column 7 (room level RL) indicates the exposure of an assistant or other persons.

September, 1980

A I A - TEST-REPORT No. 0.0

Use forbidden
only for
comparison

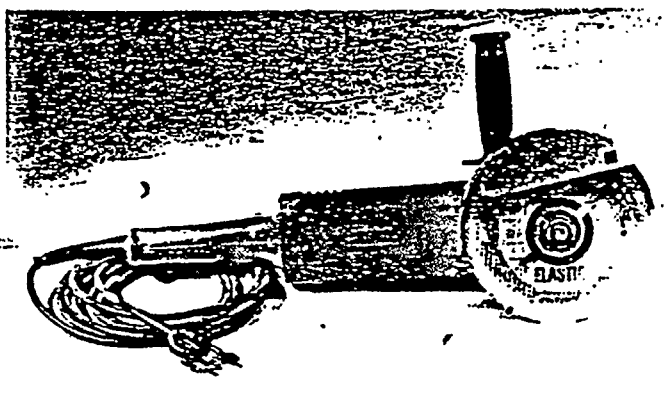
Tool: GRINDER, TYP 1321

Power = 1 600 W

Speed = 8 500 r.p.min

with silicon carbide blade

Source of supply: Bosch GmbH, Max-Lang-Str. 40-46
D-7022 Leinfelden



Test Object

Test Conditions and Measuring Results:

Material	Cutting capacity (pieces/h)	Operation time of tool (%)	Dust extract. equip.	Air exchange in test room	Concentration (f/ml)	
					breath. zone	room level
C.S.* mitring in stacks 20 cm over- lapping	60	5,5	no	yes	53	37

* C.S. = Corrugated sheet