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NZS/BS 476.21:1987 Fire tests on building materials and structures - Methods for determination of the fire resistance of loadbearing elements of construction

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Abbreviation

NZS/BS 476.21:1987

Valid from

28/05/1987

Information provider

Standards New Zealand

Author

Standards New Zealand, British Standards Institution

Information type

New Zealand Standard

Format

PDF

Cited By

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Description

Detailed test requirements for beams, columns, floors and flat roofs and walls.

Scope

This part of BS476 describes procedures for determining the fire resistance of loadbearing elements of building construction when subjected to the heating and pressure conditions specified in BS 476.20. This part provides requirements for specimen selection and/or its design and construction, loading and restraint conditions, equipment, procedures and criteria as they apply to loading bearing specimens. The methods are applicable to beams, columns, floors, flat roofs and walls.

The methods described are not applicable to suspended ceilings protecting steel beams which are described in BS 472-23. Owing to limitations imposed by both the furnaces and their method of control, structures employing water cooling techniques are not capable of being evaluated realistically by these procedures. The methods described are not applicable to assemblies of elements, e.g. wall/floor combinations, although some guidance is provided in Appendix A for tests of this type.

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Appendix A Guidance information

Figure 1 – Calculation of the test load for columns

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