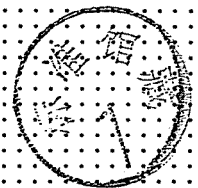
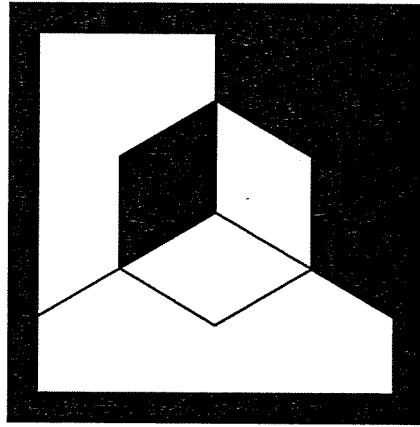


A M E R I C A N A R C H I T E C T U R A L

AAMA TIR A9-91
Metal Curtain
Wall Fasteners



M A N U F A C T U R E R S A S S O C I A T I O N

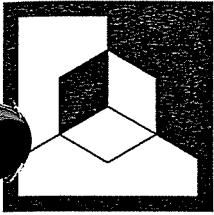


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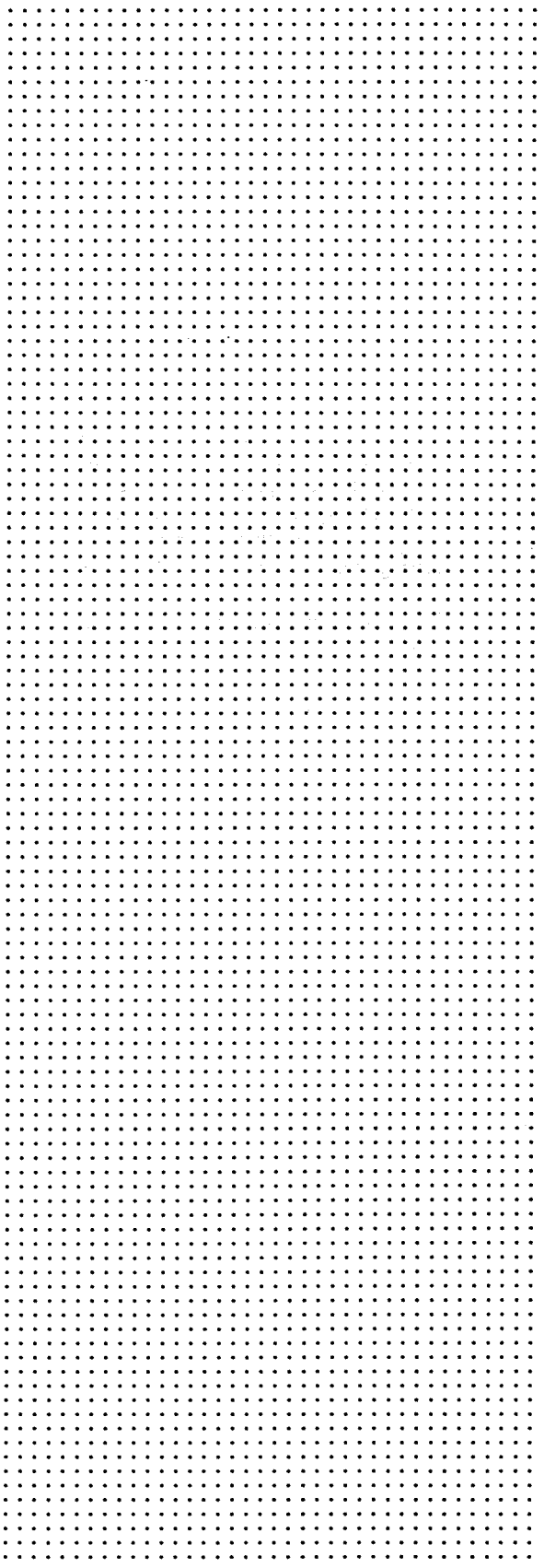
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FORWARD

This Technical Information Report is a consensus document developed by the Engineering Design Standards Task Group of the Architectural Window, Curtain Wall and Store Front Division of the American Architectural Manufacturer's Association (AAMA). Twenty-two professional engineers and ten designers representing twenty-two companies and associations were members of the task group.

This report is published as a service to those with the responsibility for design, specification, manufacture and installation of metal curtain wall systems.

While this report is believed to be accurate, the information should not be used or relied upon without competent professional examination and verification of its accuracy, suitability and applicability. Publication of the material contained in this report is not a warranty of any kind whatsoever, expressed or implied, on the part of AAMA, nor is it a representation that the information is suitable for any general or particular use, or of freedom from infringement of any patent or patents. Anyone making use of this information assumes all liability arising from such use.

The design professional should be aware that standards, specifications and technical data developed by other organizations, incorporated by reference in this report, may be modified or amended from time to time subsequent to the printing of this report.

Prior to the publication of this Technical Information Report no single body of information existed which

provided the guidance needed for analyzing fasteners used in metal curtain wall construction. The Aluminum Association (AA) provided specifications and guidance for aluminum. The American Institute of Steel Construction (AISC) and the American Iron and Steel Institute (AISI) provided similar information for steel. Other information required to adequately design and analyze fasteners was found scattered among a number of organizations including the American National Standards Institute (ANSI), the American Society for Testing and Materials (ASTM), the Industrial Fasteners Institute (IFI) and the Society of Automotive Engineers (SAE). In some instances the larger users of industrial fasteners, such as the General Services Administration, developed their own standards for fastener analysis. The results of this were often guidelines tailored only to meet the specific needs of the individual users.

In recognition of this situation the Curtain Wall Engineering Design Standards Task Group of the Architectural Window, Curtain Wall and Store Front Division of AAMA undertook the task of developing this report. The report brings together in one document the data and guidance essential for selection of fasteners needed in metal curtain wall framing and anchoring systems. The information is also applicable to storefronts, sloped glazing, skylights and other architectural metal applications.

AAMA welcomes comments and suggestions relative to this report with the objective of improving and expanding the next edition when it is published.