



## SRIA TECHNICAL SUPPORT FOR STEEL REINFORCED CONCRETE DESIGN AND CONSTRUCTION

The Steel Reinforcement Institute of Australia (SRIA) is a national non-profit organisation providing high quality technical support and information service to the Australian building industry. SRIA is funded and supported through its members who consist of the manufacturers and processors of steel reinforcing, and associate members who manufacture and supply ancillary products used in steel reinforced concrete construction.

The SRIA offers a comprehensive service in the ever-evolving field of reinforced concrete. It delivers a wide range of tangible benefits to the building industry, including:

- regular news and updates on the use of steel reinforced concrete in Australia and around the world;
- a wide selection of publications giving the latest information in design and construction methods;
- seminars and presentations on design and detailing of steel reinforced concrete structures;
- lectures to civil engineering students;
- lobbying governmental and legislative bodies on behalf of the Australian building industry;
- drafting technical standards;
- facilitating research in the field of steel reinforcing.

Offering practical solutions to meet the diverse and ever changing needs of the Australian building industry, SRIA's goal is to encourage the economic, elegant and innovative design and construction of reinforced concrete structures.

SRIA specialises in a number of areas of reinforced concrete usage bringing to both industry and the general public the current best practice in these areas. This service is achieved through monitoring current projects and methods and research world-wide. Combined with its knowledge of, and contact with, the Australian building industry, SRIA provides a unique resource for designers, specifiers and builders.

Lectures are offered to all University Faculties of Civil Engineering around Australia each year, providing students with up-to-date information on the design, detailing and specification of reinforced concrete. The lectures focus on the practical aspects associated with the construction of reinforced concrete beams, columns, slabs, footings and pavements, together with an understanding of the material aspects of the reinforcing steels used. The SRIA lecturing program which is free of charge, currently reaches over 2,000 students in every state each year and is part of the steel reinforcement industry's commitment to the future of Australia's building industry. Each student receives the Concrete Institute of Australia (CIA) Reinforcement Detailing Handbook, the SRIA CD containing the information listed on the opposite page, technical data from steel reinforcement manufacturers and distributors. The outstanding student for the year in each class receives a cash prize from the SRIA of \$500 plus an award certificate.

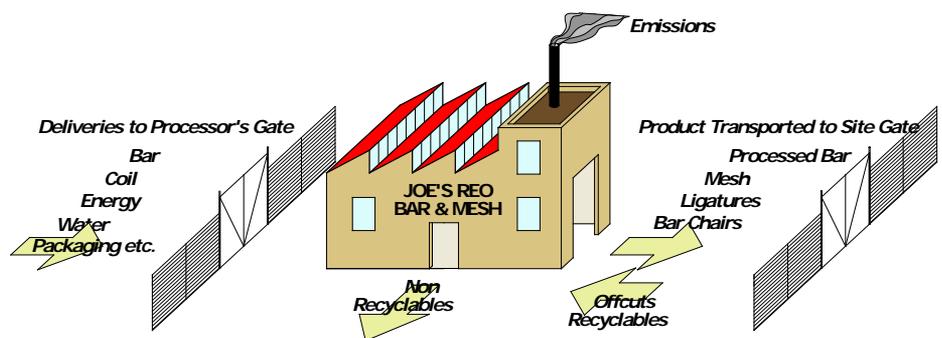
The SRIA is also an active member of the Building Products Innovation Council (BPIC), a manufacturing materials peak body that is committed to the future growth and prosperity of the building industry. The Council's mission is to promote the most efficient and innovative use of building products within a nationally consistent regulatory environment for building.

One of BPIC's goals is to establish a framework for the fair selection of building materials and products, by providing robust Australian Life Cycle Inventory (LCI) Data as part of the AusLCI project. Through a project known as the BPIC ICIP project, BPIC is leading a consortia of the Australian Life Cycle Assessment Society and BRANZ in partnership with the Department of Innovation, Science, Research and Industry with the support and participation of BPIC's major national representative associations which includes SRIA.

The project will deliver a consistent 'level playing field' methodology in Life Cycle Assessments (LCA), for use in the selection of building materials and products.

Within the steel reinforcement industry, our mill and processor members are preparing the LCI data to feed into the AusLCI Project through the BPIC/ICIP project.

A typical flow of the activities from gate-to-gate for our processors is illustrated below:



### THE CORE AREAS OF SRIA EXPERTISE ARE:

- Steel reinforcement
- Roads
- Housing
- Precast & Tilt-up walling systems
- Flooring systems
- High-Rise construction
- Concrete finishes
- Earthquake design
- Fire design
- Environmental concerns
- Sustainability

For further information the SRIA can be contacted through its national office:

Executive Director: John Keith  
Phone: 02 9410 3224  
Fax: 02 9410 1554  
Email: info@sria.com.au  
Internet: www.sria.com.au  
Post: PO Box 418 Roseville NSW 2069



**Publications and resources available from the SRIA website [www.sria.com.au](http://www.sria.com.au) are listed below. The technical publications are currently being revised and updated, and will be re-issued as a Technical Note series.**

## TITLE

## DESCRIPTION

### Multi-Storey Construction

QV1	A detailed case study of a 42-storey building in Perth
Form and Function in Concrete	Case studies of prominent buildings in six capital cities
Australia's 100 Tallest Buildings	Pictorial overview, analysing them by structure, number of floors and overall height. It shows the dominance of reinforced concrete in this market and identifies reasons for this
Seismic Detailing for Reinforced Concrete Buildings in Australia	Reviews the detailing requirements of AS3600 for building structures designed for Australian seismic conditions. Following a brief overview of Australian seismicity and relevant code requirements, specific details are presented together with commentary and supporting case studies from recent overseas earthquakes

### Tilt-Up and Precast Concrete Construction

Tilt-Up Digest	An examination of recent tilt-up buildings
Tilt-Up City	Reviews the contribution that tilt-up construction has made to the Joondalup streetscape in Perth by considering several projects in the commercial, retail and residential areas – the realisation of Landcorp's vision of "A City in Harmony"
Ten Steps to Tilt-Up	Ten reasons why tilt-up is becoming the preferred construction system for many commercial and residential developments – ten reasons why you should use it on your next project

### Housing Construction

10 Steps to Build a Reinforced Concrete Slab-On-Ground	Step-by-step guide for a house builder to successfully construct a durable slab-on-ground, the preferred floor and footing solution for housing
--	---

### Practical Guides for Detailing and Handling of Reinforcement

Fabrication and Site Handling of Reinforcing Bars	Includes identification of Australian reinforcing bar, recommendations for safe and effective handling on site, and covers bending and re-bending, site heating, splicing and use of protective coatings
Guidelines for Economical Assembly of Reinforcement	This Guide recommends detailing and fixing practices which will allow some flexibility when placing steel reinforcing bars and fabric

### Other Publications

Why Concrete?	A classic lecture by Professor H J Cowan, AO Professor Emeritus of Architectural Science, University of Sydney. Although originally published in 1970, most of its statements are still true today
Why Concrete Framing?	There are ten good reasons why concrete is the preferred material for the vast majority of building frames

### CD ROM

Resources	A CD ROM containing all these publications and more, in an easy-to-use interactive format, is available from SRIA.
-----------	--