

About BQPRINT II...

WHAT IS BQPrint?

BQPrint II is an add-on module available with Estimator II.











Primarily used by Quantity Surveyors for producing Bills of Quantities, BQPrint is also used by construction companies to reproduce the same document.

BQPrint works on the data entered via Estimator II. This means that not only can you produce any of the standard Estimator II reports, but also complete Bills of Quantities, from the same data.

All formatting of the measured bills is done by BQPrint. Editing work like pagination, insertion of item references, page numbers or collection pages, and heading continuations are all handled automatically. The user simply enters the data into the worksheet using various control codes available and then runs BQPrint to format this data to produce, or reproduce, a Bill of Quantities.

A BRIEF FEATURE LIST...

Some of the features incorporated into BQPrint making it easy to use and yet powerful include:

-  Automatic generation of Bill Item References
-  Default page layout complete with ruled lines, company name, job code, page numbering already supplied yet fully tailorable
-  Underlining
-  Heading/Sub-Heading Facilities
-  Elemental Coding/Breakdown
-  Multi-Building Breakdown
-  Right Margin justification for preambles
-  PWD Sub-Totals
-  Automatic To Collection/Carried to Summary
-  Complete suite of Bill of Quantities reports including Bill, Bill Summary and Index

The following pages show various screen dumps from within the package, illustrating how easy it is to use and how flexible it can be.

The following dialog box allows users to control what details are to be printed

These options are described in brief below:

INCLUDE P.W.D. SUB-TOTALS:

Choosing this option will sub-divide each trade bill into sub-sections defined in the body of the trade measurement.

EXCLUDE QUANTITIES:

Checking this option will disable the printing of quantities.

EXCLUDE RATES:

Checking this option will disable the printing of rates and therefore costs.

INCLUDE ELEMENTAL CODING:

If the N.P.W.C. (National Public Works Conference) two letter elemental coding system has been employed in this project, then checking this option will include printing this data.

EXCLUDE PAGE AND COLLECTION TOTALS:

The cost total of all items is normally shown at the bottom of each page, and also in the "To Collection" section at the end of each Trade Bill. Checking this option overrides the printing of these totals.

Other dialog boxes include:

Setup Printed Bill Page Format

SETOUT OF PAGE

Print Title at **BOTTOM** of Page Underline width

Horizontal Title Position \$ Heading

Line # for Trade Title

Width of Headings

No. of Buildings

COST COLUMN PARAMETERS

Char. position for Page #

Page Prefix Text

PAGE NUMBERING

MULTI-BUILDING FORMAT

List quants **DOWN** the page Zero quant fill

Header Line Text

blank lines before bldg # blank lines after bldg

Multi-building Titles for DOWN page Listings

Bldg 1 Bldg 2 Bldg 3 Bldg 4

Bldg 5 Bldg 6 Bldg 7 Bldg 8

Bldg 9 Bldg 10 Bldg 11 Bldg 12

These dialog boxes allow you to control the format of the information on the printed page.

Set Default Bill Tabulations

The following settings represent the current TAB positions.

NOTE: The Item Reference Letter is located on TAB position 1.

Description Unit

Quantity Rate

Cost Page Collection

DATA ENTRY

SAMPLE REPORTS

The following screen dump of the estimate worksheet shows the format of the data entry.

Estimating Worksheet						
BQREF	CC	DESCRIPTION	UNIT	QUANT	RATE	COST
		Ramped deck parking				
		Concrete floor slabs to ramped car park decks including beams	m2	30888.0	150.00	4633200.
		> 2640.00 x 1 jeu-1				
		> 3201.00 x 1 ground floor				
		> 2640.00 x 1 jeu +1				
		> 3201.00 x 7 jeu +2-8				
		Edge of ramped slab including beam, upstand kerb, balustrade and crash rail	m	1275.00	350.00	446250.0
		> 85.00 x 15				
		Internal vehicle ramps				
		Allow for truck ramp 8000 wide from Lonsdale St to basement loading dock	m	105.00	3000.00	315000.0
		> 105.00				
		Allowance for truck ramp extending from lower ground down to basement	Item			300000.0
		Ditto for car ramp 7000 wide from basement carpark	m	60.00	2750.00	165000.0
		> 15.00 x 2up				
		> 15.00 x 2down				
		Ditto to upper level carpark deck	m	20.00	2750.00	55000.00
		> 20.00 x 1				
TOTAL COST - SECTION-						5,914,450.00
PROJECT-						22,400,000.00

The resultant Bill printout may be seen further on at the end of this document.

Quantities may be measured from within the estimate worksheet, as illustrated in the screen dump above (and preceded with an ">") or alternatively, via workup sheets as shown below:

DATA ENTRY / SAMPLE REPORTS (cont'd)

Concrete roof over escape stairs, lift motor m2 90 180.00 16200

DIM1	DIM2	DIM3	TIMESING	COMMENTS	TOTAL
6.00	3.00		4.00	Stairs	72.0000
6.00	3.00			Imr	18.0000
					90.0000

to open the quantity workup sheet

Estimating Worksheet

DESCRIPTION	UNIT	QUANT	RATE
Concrete roof over escape stairs, lift motor rooms etc	m2	90	180.01
Allowance for roof drainage installation including roof outlets and downpipes	m2	3,201	30.01
TOTAL COST : SECTION-			96,030
PROJECT-			22,383,800

double click here

The result of the quantity workup sheet is then displayed in the estimate worksheet:

Estimating Worksheet

DESCRIPTION	UNIT	QUANT	RATE
Concrete roof over escape stairs, lift motor rooms etc	m2	90	180.00
Allowance for roof drainage installation including roof outlets and downpipes	m2	3,201	30.00
TOTAL COST : SECTION-			112,230
PROJECT-			22,400,000

As shown here

There is practically no limit to the number of lines in the worksheets. The estimate worksheet may be up to 32,000 lines long, while the quantity workup sheets may be up to 32,000 lines long.

BILL NO. 2 SUBSTRUCTURE				\$ c				
<u>Basement excavation</u>								
A	Basement excavation in rippable rock	m3	15840	30.00	475,200.00			
B	Site retention							
C	Site retention consisting of bored piers at centres to be determined, rock anchors, shotcrete concrete between piers, mesh reinforcement, strip drains behind etc	m2	876	1,150.00	1,007,400.00			
<u>Foundations</u>								
D	Foundations to suit 12 level carpark structure	m2	3201	150.00	480,150.00			
E	Additional allowance for foundations to carry future hotel/ office level				0.00			
<u>Slab on gr</u>								
F	Slab on gr beams, me				0.00			
G	Gatic drain				0.00			
SAMPLE ONLY								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%; text-align: right;"> TOTAL OF BILL NO. 2 - SUBSTRUCTURE \$ Carried to Summary </td> </tr> <tr> <td></td> <td style="text-align: right; border: 1px solid black;">2,928,830.00</td> </tr> </table>						TOTAL OF BILL NO. 2 - SUBSTRUCTURE \$ Carried to Summary		2,928,830.00
	TOTAL OF BILL NO. 2 - SUBSTRUCTURE \$ Carried to Summary							
	2,928,830.00							

Further samples follow:

**BILL NO. 5
CONCRETE**

\$ c

**CHOICE TO INCLUDE/EXCLUDE
PRINTED LINES**

PREAMBLES

A All Preamble, Specification, Method of Measurement and Prices Clauses and Allowance Items in other sections of these Specified Bills of Quantities shall apply equally to work in this Bill where applicable.

SPECIFICATION

FORMATTING OF DESCRIPTIONS

Scope & Extent

B Provide the materials and workmanship necessary to produce concrete of the appropriate quality and form it into the concrete elements of the building.

C The concrete elements of the building includes all concrete items shown on the

**AUTOMATIC BILL ITEM
REFERENCING**

risings, i
mentioned

E Scope of

Compliance

F Any material manufactured for Testing standard, listed. In specification standards,

Responsibility

G The Build accordance document

Standards

H All concrete work shall conform to the materials and construction of the current Codes & Standards, except where modified by this specification.

SAMPLE ONLY

COMPANY NAME + JOB CODE

				\$ c
<u>SPECIFICATION</u> (Cont'd)				
	<u>Inspectio</u>			
A	The Buil plants to			
	<u>Samples</u>			
B	The Buil specified			
	<u>Acceptar</u>			
C	The conc of this sp			
	<u>Construc</u>			
D	The Buil part of th construc examinat sustain a			
SAMPLE ONLY				
<u>METHOD OF MEASUREMENT AND PRICES</u>				
E	This Bill of Quantities has been measured in accordance with the Australian Standard Method of Measurement of Building Works - Fifth Edition, unless otherwise stated or described.			
F	Notwithstanding the requirements of Section 6.1, Clause 16 of the Standard Method of Measurement, scabbling has NOT been measured but is deemed to be included in the prices.			
	<u>Prices shall be deemed to include for:</u>			
G	-complying with the requirements of this Bill of Quantities and Drawings.			
<u>ALLOWANCES</u>				
H	Allow for providing samples of materials or finishes.	Item		
I	Allow for testing of materials, concrete specimens and similar.	Item		
J	Allow for providing Codes and Standards.	Item		
<small>CONSTRUCTIVE COMPUTER SERVICES</small>				<small>To Collection \$</small>
AUTOMATIC PAGE NUMBERING				

					\$ c
<u>ALLOWANCES (Cont'd)</u>					
A	Allow for giving notices.	Item			
B	Allow for protecting and curing formed concrete surfaces.	Item			
C	Allow for protecting and curing concrete slabs on ground.(In 2393 m2)	Item			
D	Allow for reinforcement inspections.				
<div style="background-color: #cccccc; padding: 5px; display: inline-block;"> FORMATTING OF DATA INTO COLUMNS </div>					
<u>CONCRETE</u>					
<u>15 mPa.Unr</u>					
E	Blinding po necessary l				00
<u>25 mPa.Reir</u>					
F	Isolated pad				08
G	100 thick thickening				96
H	Kerb to base				
<u>32 mPa.Reir</u>					
I	85 thick waf and ribs.(In				
J	Kerb to base				
<u>Concrete Sl</u>					
K	Steel trowel monolithic finish to slabs.	m2	1956		
L	Ditto to falls and cross falls.	m2	231		
M	Construction joint in 100 thick ground slab comprising R20 x 400 long dowel bars at 600 centres, greased one end including expansion cap, formwork one side, cork separation strip and mastic sealant bead.	m	100		
To Collection \$					19,081.04

		AUTOMATIC CONTINUATION OF HEADINGS & SUB-HEADINGS			\$ c
<u>CONCRETE</u> (Cont'd)					
<u>Concrete Sundries</u> (Cont'd)					
A	Construction joint in 85 thick waffle ground slab comprising R12 x400 long dowel bars at 600 centres, greased & one side bead.				
B	300 x 10 below cor				
C	5 wide x mastic se				
D	Grout fillir for trowell				
E	Grout fillir ditto.				
<u>FORMWC</u>					
<u>Method o</u>					
F	Formwork concrete				
<u>Prices for formwork shall be deemed to include for :</u>					
G	- everything necessary to uphold the concrete including framing, cutting, centreing, shuttering, moulds, etc., all necessary ties, struts, soles, braces, spacers, wedges, bolts, drilling and supports, back propping, temporary cambering;				
H	- wetting and treatment with separating agent, before placing concrete;				
I	- setting slabs up or down to provide for differing floor finish thicknesses;				
J	- temporary openings to facilitate cleaning and inspection;				
K	- erection, easing, striking, removal, cleaning down, oiling for re-use and all cutting and waste;				
				To Collection \$	

				\$ c
<u>FORMWORK (Cont'd)</u>				
<u>Prices for formwork shall be deemed to include for: (Cont'd)</u>				
A	- perforations for pipes, etc., cutting around projecting reinforcing bars, straps, hangers and the like and for preparation for waterstops as necessary;			
B	- modifying or part waffle pods to suit the Structural Engineers requirements.			
<u>REINFORCEMENT</u>				
<u>Method of Measurement and Prices</u>				
C	Reinforcement has been measured to the net lengths indicated on the drawings plus allowances for design laps, splices, hooks, cogs, etc.			
D	Bar reinforcement has been measured to the net lengths indicated on the drawings plus allowances for design laps, splices, hooks, cogs, etc.			
E	Fabric reinforcement has been measured to the net lengths indicated on the drawings plus allowances for design laps, splices, hooks, cogs, etc.			
<u>Prices for reinforcement shall be deemed to include for:</u>				
F	- rolling margin bending, fabric reinforcement, labelling and marking, and chair supports.			
G	- thoroughly greasing, pairing and positioning reinforcement.			
<u>Allowances</u>				
H	Allow for providing bending schedules for 6.38 t of bar reinforcement, 2457 m ² of fabric reinforcement and 1059 m of trench mesh reinforcement.	Item		
<u>Hot Rolled Deformed Bar Grade 410 to AS 1302</u>				
I	Y12 to Y16 bars in ground slab.	t	0.26	
		TONNAGE ITEMS ALWAYS REPRESENTED TO 2 DECIMAL PLACES		
				To Collection \$

			\$	c
<u>REINFORCEMENT (Cont'd)</u>				
<u>Hot Rolled Deformed Bar Grade 410 to AS 1302 (Cont'd)</u>				
A	Y12 to Y16 bars in attached edge beams and waffle slab ribs.	t	5.27	
B	Y12 bars in kerbs.	t	0.85	
<u>Hard Dra</u>				
C	F72 mes			
D	F72 mes			
E	F82 mes			
F	F82 mes			
G	F82 mes			
H	F918 me			
I	F11TM(
			Page No	
			5/1	
			5/2	
<div style="background-color: #cccccc; padding: 5px; display: inline-block;"> AUTOMATIC GENERATION OF TRADE COLLECTION </div>			5/3	19,081.04
			5/4	
			5/5	
			5/6	
COMBSTRUCTIVE COMPUTER SERVICES 95-0458				TOTAL OF BILL NO. 5 - CONCRETE \$ Carried to Summary
				19,081.04

SAMPLE ONLY