

## All about the Carbon Impact Model

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## Decarbonisation strategies require intelligent data

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## **Real-time** data at your fingertips

With CIM, you can perform a carbon emissions life-cycle assessment of any construction project from the design phase, through delivery of materials to construction and collaborate with other





## Calculate

Auto-calculate the actual carbon intensity of specific concrete compositions.

100

200

200



## Report

Report concrete mix application against each type of element on a project, business, regional or industry level.

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# What is **CIM?**

**Purpose-Built for Construction**: Designed by industry professionals to forecast, calculate, record, and report carbon intensity in construction projects.

**Performance Tracking**: Enables insights into concrete usage across regions and measuring progress on carbon reduction targets.

**Sophisticated Web Application**: Features an intuitive, multi-level content management system.

**Real-Time Data Analysis**: Allows organisations to instantly collate and analyse concrete supply chain data for their projects.

**Quality Assurance**: CIM records the fresh and hardened properties of the concrete that is being used on the project to allow analysis on minimum cement contents and carbon vs strength.



# How it works

The Carbon Impact Model (CIM) is designed to help the supply chain, involved in construction projects and regardless of sector, to collaborate towards its decarbonisation targets using information that is already being recorded, but not necessarily shared or in one place.

CIM calculates, tracks, and reports concrete design consumption and carbon intensity for projects regardless of size and duration.

No additional resources are required as the data captured by CIM is already recorded by projects, albeit in multiple locations.

The process is streamlined into three main stages: **Input, Calculation**, and **Reporting**.









Strength Class	Market Beating			LCCG 3			Outlier Mixes
C8/10		7			1		
C16/20					1	3	
C20/25		1					
C25/30		2					
C30/37				2	1		
C55/67			2				
C12/15						1	
C40/50	1	5	з				
C32/40		7	8	1	2	2	
C35/45		з					
C50/60		1					







uctural Specificati	ion Mix De	rsign Request	Mix Compositi	ion Mix Use(Man	datory Minimum)	Concrete Deliv	ry Record	Compressive	e Strength &	Density	Pour Ref Data				
				Specification of	onfiguration					-					
Specification	n document S ence	Specification revision	Specif		Specification clause (mix ID)	Specificatio				sign life S	itrength Class	Dens	ity	Exposure Classes	
BNK-XX-XX-	TS-X-00001	P02	Concrete Mix D	esigns Early Works	Raft	Basement	Raft Slab, Pour 1	1	Table A4: 50 y	rears ~ C	40/50 🗸	2400	8	× XC1	
BNK-XX-XX-	TS-X-00001	P02	Concrete Mix D	esigns - Early Works	Raft	Basement Raf	, top 300mm, Po	ur 1 1	Table A4: 50 y	years ❤ C	40/50 🗸	2400	Ø	× XC1	
BNK-XX-XX-	TS-X-00001	P02	Concrete Mix D	esigns - Early Works	Wall	Li	ner Wall	1	Table A4: 50 y	rears v C	32/40 ¥	2400	Ø	× XC1	
BNK-XX-XX-	TS-X-00001	P02	Concrete Mix D	esigns - Early Works	Columns	В	sement	1	Table A4: 50 y	rears ∨ C	40/50 ∨	2400	Ø	× XC1	
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BNK-XX-XX-	TS-X-00001	P02	Concrete Mix D	esigns - Early Works	Roof		Slab	1	Table A4: 50 y	ears ~ C	32/40 🗸	2400	Ø	× XC1	
uctural Specificatio	an Mix De	sign Request	Mix Compositio	on Mix Use(Manda	atory Minimum)	Concrete Delive	y Record	Compressive	Strength & E	Density	Pour Ref I	Data			
			Configuration			-				P	erformance	e Require	ments		
	Specifica Clause ( ID)	ition Mix Deleti	e Contractor N Reference	lix Element Desc		ne (m³) Streng	th Class	Density		Assessment Age (Days)	Consis	tence	Chloride Class	DC Class	R
tequest Form	+ Raft	2	Mix 1	Raft Sla	ь 100	.0m <sup>9</sup> C40	/50 ~	Normal	~	28	FS	5	CL 0.30	DC-2	T
tequest Form	+ Raft	2	Mix 1 ADP	Raft Slab, top	300mm 50.	Om <sup>a</sup> C40	/50 ~	Normal	~	28	FS	5	CL 0.30	DC-2	
equest Form	+ Wall	8	Mix 2 ADP	Linerwa	II 120	.0m² C32	/40 ~	Normal	•	28	s	1	CL 0.30	DC-2	
		8	Mix 2 ADP 1	0 Linerwa	II 60.	0m² C33	/40 🗸	Normal	*	28	s	1	CL 0.30	DC-2	
equest Form	+ Colum	ns 😂	Mix 3	Column	s 80.	Om <sup>a</sup> C40	/50 ~	Normal	~	28	SA	1	CL 0.30	DC-2	
equest Form	+ Colum	ns 😂	Mix 4 ADP	Columns in Lir	ter Wall 50.	Om <sup>a</sup> C40	/50 🗸	Normal	~	28	SA	4	CL 0.40	DC-1	
equest Form	+ Roof	8	Mix 586	Slab, Walls,	Vents 75.	Om <sup>a</sup> C32	/40 🗸	Normal	~	28	s	4	CL 0.40	N/A	
		8	Mix 586 AD	P Slab, Walls, V	Vents 100	.0m² 032	/40 ~	Normal	~	28	s	\$	CL 0.40	N/A	
		8	Mix 586 10	Slab, Walls,	Vents 40.	0m <sup>3</sup> C33	/40 ~	Normal	*	28	s	s	CL 0.40	N/A	
			NEW FOR ADD		u	au <sup>-1</sup>				~~	-	. 1	~ ~ **		
uctural Specificati	on Mix De	sign Request	Mix Compositio	n Mix Use(Manda	tory Minimum)	Concrete Delivery	Record C	compressive S	trength & De	nsity F	Your Ref Dat	ta			_
						Bind	er content								
													Pozzola		ozzc
	Refe	rence	Producer Supplier	Mix Reference Co					kg/m² Fi		kg/m	ume 1 <sup>3</sup>	(Natura kg/m²		Calci kg/i
pecification clause															
lix ID): Raft nder class: CEM III/	B- M	ix 1	C4	0/50 Raft	Type ~	Kings X	135	315	5						
R irength grade:C40/5	50														
pecification clause															
<b>/lix ID):</b> Raft inder class: CEM III/	B- Mix	ADP	C4	0/50 Raft	Type 👻	Kings X	135	315	5						
R irength grade:C40/5	20														
R rength grade:C40/5 pecification clause	SO Mix S	ADP	03	2/40 ADP	Type ~	Kings X	220	220	)						
R irength grade:C40/5 pecification clause dix ID): Wall inder class: CEM III/	A Mix	2 ADP	C33	2/40 ADP	Type v	Kings X	220	220							

# The Input Stage

The structural engineer starts the process by entering concrete specification information.

The contractor then reviews and provides more information to pass to the concrete producer, which is the Mix Design Request.

Concrete producer either enters the mix composition information into the tool or issues a mix design certificate for the contractor to enter the material information.

Input concrete mix data, including material proportions (cement, aggregates, admixtures).

Concrete Delivery Record auto-populates mix references, carbon values, total concrete consumption for each application.

	-	Aggregate content –										
	Alternative Binder kg/m <sup>a</sup>	20mm	10mm	4/20mm	4mm	0/4	filer	Silica Fume	RCA 20mm	RCA 10mm	Water kg/n	
][		704	241			784	50				172	
][		701	240			781	50				172	
][		798	979		790						167	

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# The **Calculation** Stage

Once the data is entered, the CIM platform performs advanced calculations to determine the carbon intensity of your project.

**Detailed Emissions Breakdown**: Analyses emissions by materials, transport, and other factors for a comprehensive view.

#### **Mix Design Assesment - Summary**

Mix Design	Qty Mix Designs	eCO2 Low
C8/10	8	99.44
C12/15	1	201.58
C16/20	5	190.88
C20/25	2	12.63
C25/30	2	120.90
C30/37	2	92.81
C32/40	17	122.20
C35/45	1	165.23
C40/50	7	156.67
C50/60	1	241.92

Struct	ctural Specification Mix Design Request Mix Composition Mix Us		Mix Use(Mandatory	Mandatory Minimum) Concrete Delivery Record Co		Compressi	Compressive Strength & Density		Data			
				Specification config	juration			-				
	Specification document reference	Specification revision	Specification	title s	Specification clause (mix ID)	Specification mix descript	lion	BS 8500-1 design life	Strength Class	Density	Exposure Classes	DC Class
	BNK-XX-XX-TS-X-00001	P02	Concrete Mix Designs	Early Works	Raft	Basement Raft Slab, Pou	r 1	Table A4: 50 years 🗸	C40/50 🛩	2400 🕼	× XC1	DC-2 ¥
	BNK-XX-XX-TS-X-00001	P02	Concrete Mix Designs	- Early Works	Raft	Basement Raft, top 300mm, I	Pour 1	Table A4: 50 years 👻	C40/50 ¥	2400 🕜	× XC1	DC-2 ¥
8	BNK-XX-XX-TS-X-00001	P02	Concrete Mix Designs	- Early Works	Wall	Liner Wall		Table A4: 50 years 🗸	C32/40 ¥	2400 🕼	× XC1	DC-2 ¥
	BNK-XX-XX-TS-X-00001	P02	Concrete Mix Designs	- Early Works	Columns	Basement		Table A4: 50 years 👻	C40/50 ¥	2400	× XC1	DC-2 ¥
8	BNK-XX-XX-TS-X-00001	P02	Concrete Mix Designs	- Early Works	Columns	Liner Wall		Table A4: 50 years 🗸	C40/50 ¥	2400 🕼	× XC1	DC-1 ¥
	BNK-XX-XX-TS-X-00001	P02	Concrete Mix Designs	- Early Works	Roof	Slab		Table A4: 50 years 👻	C32/40 ¥	2400	× XC1	N/A ¥
	BNK-XX-XX-TS-X-00001	P02	Concrete Mix Designs	- Early Works	Blinding	Base build up		N/A 👻	C12/15 ¥	2400	× XC1	DC-2 ¥
8	BNK-XX-XX-TS-X-00001	P02	Concrete Mix Designs	- Early Works	Mass	Infill		N/A ¥	C32/40 ¥	2400	× XC1	DC-2 ¥
	BNK-XX-XX-TS-X-00001	P03	Concrete Mix Designs	- Early Works	Columns	Liner Wall		Table A4: 50 years 👻	C40/50 ¥	2400 🕝	× XC1	DC-1 ¥
8	BNK-XX-XX-TS-X-00001	P03	Concrete Mix Designs	- Early Works	Roof	Slab		Table A4: 50 years 🗸	C50/60 ¥	2400	× XC1	DC-1 ¥

Structural Specification	Specification Mix Design Request Mix Composition Mix Use(Mandatory Minimum)				Concrete Delivery Re	ecord Comp	& Density F	Pour Ref Data					
	Einder content												
SE information	Contractor Mix Reference	Concrete Producer	Supplier Mix Reference	Cement Type		Batching plant	CEM i kg/m²	GGBS kg/mª	Fly Ash kg/m*	Silica Fume kg/m*	Pozzolana (Natural) kg/m²	Pozzolana (Calcined) kg/m²	Lim Cerne
Specification clause (Mix ID): Raft	15.5					Ning N							
Binder class: CEM III/B- SR	Mix 1	farmac	C40/50 Raft	CEM III/B-SR	۷	Kings X	135	315					
strength grade:C40/50 Specification clause (Mix ID): Raft													
binder class: CEM III/B-	Mix 1 ADP	Tarmac	C40/50 Raft	CEM III/B-SR	۲	Kings X	135	315					
strength grade:C40/50													
Specification clause (Mix ID): Wall	Mix 2 ADP	Tarmac	C32/40 ADP	CEM III/A	•	Kings X	220	220					
strength grade:C32/40	Mix 2 ADP 10	Tarmac	C32/40 ADP	CEM III/A	۲	Kings X	225	225					
Specification clause													
binder class: CEM III/A	Mix 3	Tannac	C40/50	CEM III/A	٠	Kings X	198	198					
strength grade:C40/50 Specification clause													
(Mix ID): Columns binder class: CEM III/A	Mix 4 ADP		C40/50 ADP	CEM III/A	*	Kings X	198	198					
strength grade:C40/50													
	Mix 586		C32/40	CEM III/A	~	Kings X	183	183					
Specification clause (Mix ID): Roof	Mix 586 ADP		C32/40\ADP	CEM III/A	¥	Kings X	183	183					
binder class: CEM III/A	Mix 556 10		C32/40	CEM III/A	*	Kings X	197	197					
strength grade:C32/40	Mix 586 ADP 10		C32/40VADP	CEM III/A	~	Kings X	197	197					1
Specification clause													
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strength grade:C12/15	*					-							
Specification clause													
228.54		19	0.44										
241 92		24	1 92										

Structural Specification     Mix Design Request     Mix Composition     Mix Use(Mandatory Minimum)     Concrete Delivery Record     Compressive Strength & Density     Pour Ref Data       New     07-10-2024     20-08-2024     20-08-2024     Raft Stab: 307.5 Rejected Waster 7.5       Dour date:     Pour ref.:     Pour description:     Raft Stab: 307.5 Rejected Waster 7.5       Concrete volume     Concrete mix ID     Cement Type - Strength Class     Placement     Location // membre diverd     Start       7.5     7.5     0     7.5     Mix 1     CEM III/B-SR - C40/50     In-situ stabs     Raft Stab     Skip      06:30     Construction element     Location // level     Skip      Construction element     Skip      Construction element     Location // level     Skip      Construction element														
New     07-10-2024     20-08-2024       Pour date:     Pour ref:     Pour description:     Raft Slab: 307.5 Rejected Waste: 7.5       20-08-2024     Raft Pour 1     Dwg No. xxxxxx     Placement     Location / Refer     Placement     Location / Refer     Placement     Skip v     Oild       20-08-2024     Raft Slab     Construction sub-element     Location / Location / Refer     Placement     Skip v     Oild       20-08-2024     Raft Slab     Skip v     Construction sub-element     Location / Location / Refer     Placement     Skip v     Oild       20-08-2024     Raft Slab     Skip v     Construction sub-element     Location / Location / Refer     Placement     Skip v     Construction sub-element     Location / Refer     Placement     Refer     Skip v     Construction sub-element     Location / Refer     Skip v     Construction sub-element     Location / Refer     Skip v     Construction sub-elem	Structural Specif	ication Mix Des	sign Request	Mix Composition	Mix Use(Mandat	tory Minimum) Concret	e Delivo	ery Record Compressive	Strength & De	ensity	Pour Ref Dat	ta		
Pour date:     Pour ref.:     Pour description:     Dwg No. xxxxx     Raft Slab: 367.5 Rejected Waste: 7.5       20-08-2024     Raft Pour 1     Dwg No. xxxxx     Dwg No. xxxxx     Placement     Skip ~     Ociol of the start     Skip ~     Placement     Placement     Placement     Skip ~     Ociol of the start     Ociol of the start     Skip ~     Ociol of the start     Ociol of the start <td< td=""><td>New 07</td><td>7-10-2024 20-0</td><td>8-2024</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	New 07	7-10-2024 20-0	8-2024											
20-08-2024     Raft Pour 1     Dwg No. xxxxxx     Raft Statul     Placement     Placement     Placement     Placement     Placement     Dirac       Delivered     Placed     Cumulative     Construction element     Construction sub-element     Location // level     Placement     Placement     Skip v     66:30     Construction sub-element     Location // level     Skip v      Construction sub-element     Location // level     Skip v      Construction sub-element     Skip v      Construction sub-element<	Pour date:	Pour date: Pour ref.: Pour description:												
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Delivered     Placed     Cumulative     Construction min     Strength Class     Construction element     Location / level     method     Start       7.5     7.5     7.5     7.5     7.5     15.0     Mix 1     CEM II//B-SR - C40/50     In-situ slabs     Raft Slab     Skip v     06:30     C       7.5     7.5     15.0     Mix 1     CEM II//B-SR - C40/50     In-situ slabs     Raft Slab     Skip v     -:     C       7.5     7.5     22.5     Mix 1     CEM III//B-SR - C40/50     In-situ slabs     Raft Slab     Skip v     -:     C       7.5     7.5     22.5     Mix 1     CEM III//B-SR - C40/50     In-situ slabs     Raft Slab     Skip v     -:     C       7.5     7.5     30.0     Mix 1     CEM III//B-SR - C40/50     In-situ slabs     Raft Slab     Skip v     -:     C       7.5     7.5     37.5     Mix 1     CEM III//B-SR - C40/50     In-situ slabs     Raft Slab     Skip v     -:     C       7.5     7.5     45.0	Concrete volume				Cement Type -	* * * * * * *	Placement	Discharge time						
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7.5   7.5   1   22.5   Mix 1   CEM IIV/B-SR - C40/50   in-aitu slabs   Raft Slab   Skip   (     7.5   7.5   1   30.0   Mix 1   CEM IIV/B-SR - C40/50   in-aitu slabs   Raft Slab   Skip   (     7.5   7.5   1   37.5   Mix 1   CEM IIV/B-SR - C40/50   in-aitu slabs   Raft Slab   Skip   (     7.5   7.5   1   37.5   Mix 1   CEM IIV/B-SR - C40/50   in-aitu slabs   Raft Slab   Skip   Skip   (     7.5   7.5   1   45.0   Mix 1   CEM IIV/B-SR - C40/50   in-aitu slabs   Raft Slab   Skip   Skip   (     7.5   7.5   1   45.0   Mix 1   CEM IIV/B-SR - C40/50   in-aitu slabs   Raft Slab   Skip   Skip   (     7.5   7.5   1   52.5   Mix 1   CEM IIV/B-SR - C40/50   in-aitu slabs   Raft Slab   Skip   Skip   (	7.5	7.5	15.0	Mix 1 🗸	CEM III/B-SR - C40/50	In-situ slabs	~	Raft Slab 🗸		Skip 🗸	-)-	0	-:-	٩
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7.5   7.5   Image: State of the state o	7.5	7.5	30.0	Mix 1 🗸	CEM III/B-SR - C40/50	In-situ slabs	~	Raft Slab 🖌		Skip 🗸	-:-	٢	-(-	٩
7.5   7.5   45.0   Mix 1   CEM III/B-SR - C40/50   In-situ slabs   Raft Slab   Skip   -: (     7.5   7.5   52.5   Mix 1   CEM III/B-SR - C40/50   In-situ slabs   Raft Slab   Skip   -: (	7.5	7.5	37.5	Mix 1 🗸	CEM III/B-SR - C40/50	In-situ slabs	*	Raft Slab 🖌		Skip 🗸	-:-	٩	-:-	6
7.5 7.5 0 52.5 Mix 1 v CEM III/B-SR - C40/50 In-situ slabs v Raft Slab v Skip v -:- C	7.5	7.5	45.0	Mix 1 👻	CEM III/B-SR - C40/50	In-situ slabs	•	Raft Slab 👻		Skip 🗸	-:-	C	-:-	6
	7.5	7.5	52.5	Mix 1 🗸	CEM III/B-SR - C40/50	In-situ slabs	•	Raft Slab 🗸		Skip 🗸	-:-	0	-:	٩
7.5     7.5     0     60.0     Mix 1     CEM IIV/B-SR - C40/50     In-situ slabs     Raft Slab     Skip     -:- (	7.5	7.5	60.0	Mix 1 🗸	CEM III/B-SR - C40/50	In-situ slabs	~	Raft Slab 🗸		Skip 🗸	-)-	٩	-:-	٩



# The **Reporting** Stage

Once the calculations are complete, you can create detailed reports using the platform's built-in tools:

Customisable Reports: Compile data into easy-to-understand charts, graphs, and tables that summarise the carbon impact of your project.

The CIM platform provides comprehensive data collection or, as an option, the basic but mandatory minimum.

Narrative Options: Add your own narrative to the report, explaining the results and their significance to your business or stakeholders.

**Export to PDF**: Finally, the report can be exported to PDF format, providing you with a professional document ready for internal business updates or client presentations.

Mix

Mix 1 54 10mm

Mix 2 83 10mr

Mix 2 S3 20mr

Mix 1 84 20m

150

70

180

78

Concrete Delivery Record Compressive Strength & Density

Mix used by element

Sub Elem

Columns

Columns

Capping beam

Column

Deserv

In-situ walls & colum

÷

# Uniform Reporting from industry

The Carbon Impact Model (CIM) is designed to drive cross-industry collaboration, providing a clear and efficient solution for reporting the carbon impact of concrete use in construction.

THWAY

OPERAT

## Pathway

Clients play a key role in driving decarbonisation by signalling demand to the supply chain. While pathways vary by industry, concrete carbon assessments are essential across all sectors. CIM provides a consistent system for clients to integrate into projects.

## **Enablers**

Since 2022, the Low Carbon Concrete Group route map has initiated workstreams aimed at NetZero strategies. These enablers, like sharing knowledge, trial data, and carbon intensity, guide decarbonisation. CIM supports these efforts within throughout the industry.

## **Principles**

Key principles for decarbonisation include using materials efficiently and understanding available technologies in each region. By recording and demonstrating material performance through CIM, organisations can promote new solutions and optimise designs.

## Operations

Tender documents increasingly request carbon credentials from the supply chain. Using CIM streamlines ongoing carbon assessments for both clients and suppliers involved in repeat projects. CIM also helps the supply chain track progress toward business and project goals.

# Adoption of CIM

## Supporting the wider industry

Uniform reporting is essential to carry out detailed but timely analysis leading to confident procurement decisions.

The uniform reporting aspect translates into immediately recognisable performance comparisons and provides instant status reports for progress on the trajectory towards Net Zero targets.

Information and data is key to measure but only if it is accurate relevant and recent.

The Carbon Impact Model, when adopted, will provide that information which will directly support analysis and measurement being carried out by the Low Carbon Concrete Group across multiple workstreams that include:

WS 3 Flex 350 – Ongoing funding contribution to future revisions.

WS 5 Continuous Benchmarking -Contribution towards experts analysing benchmark data yearly.

WS 10 Pilots and Trials - Contribution towards the administration of updating case studies and publications.

WS 11 Insurance Sector - Contribution towards the publication of guidance documents as well as part remuneration for the establishment of a Technical Committee for ABS.

WS 12 Gap Analysis – An important body of work that will be part funded by CIM to enable yearly assessments of the trajectory towards Net Zero.

### WORKSTREAM 3 **Flex Standard**



**WORKSTREAM 10 Pilots & trials data** 

bsi.



#### WORKSTREAM 5 **Continuous Benchmarking**



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