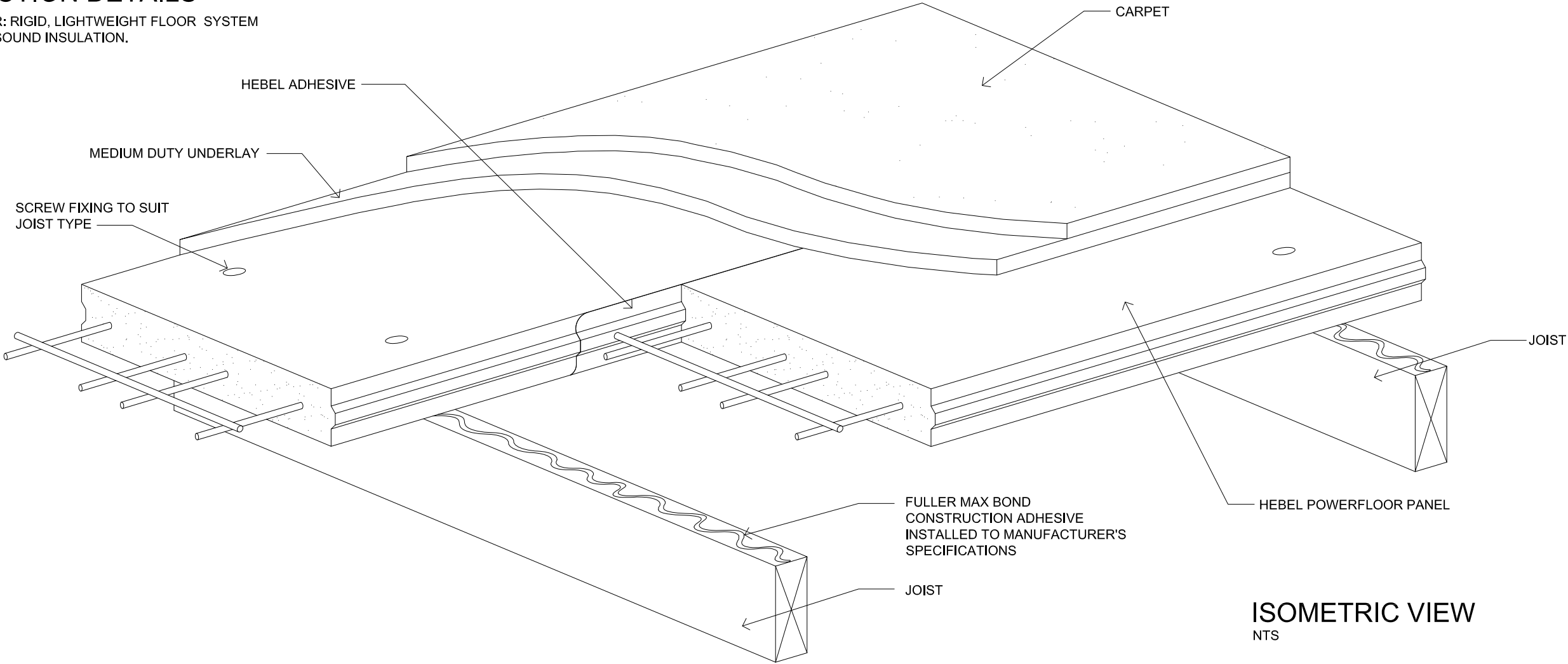


HEBEL POWERFLOOR SYSTEM CARPET
CONSTRUCTION DETAILS

RECOMMENDED FOR: RIGID, LIGHTWEIGHT FLOOR SYSTEM
WITH HIGH IMPACT SOUND INSULATION.



ISOMETRIC VIEW
NTS

NOTE: PATCHING OF RECESSES AT FIXINGS OR
LOCALISED CHIPPING MAY BE REQUIRED PRIOR
TO INSTALLATION OF FLOOR COVERINGS.

NOTE: *FIRE SOURCE FROM ABOVE ONLY.
** SUITABLE UNDERFLOOR INSULATION MAY BE INSTALLED TO ACHIEVE FLOOR R-VALUE OF R1.3 AS
REQUIRED BY NZBC CLAUSE H1 (ENERGY EFFICIENCY)

REFER TO SPECIFICATION GBSC 30 (USING RESILIENT MOUNTS WHEN FIXING THE RONDO FURRING CHANNEL
TO THE UNDERSIDE OF JOISTS) IN THE PUBLICATION 'GIB FIRE RATED SYSTEM SPECIFICATION AND
INSTALLATION MANUAL, OCTOBER 2012' FOR INSTALLATION OF THE GIB PLASTERBOARD CEILING LININGS FOR
SYSTEM FCS 30 AND SPECIFICATION GBDFA 60c IN THE PUBLICATION 'GIB NOISE CONTROL SYSTEMS MARCH,
2006' FOR INSTALLATION OF THE GIB PLASTERBOARD CEILING LININGS FOR SYSTEM FCS 60'.

CARPET		FIRE*	ACOUSTIC				THERMAL
CODE	SYSTEM DESCRIPTION	FRL	Rw/STC	Rw+Ctr	IIC	Lnw + C1	R-VALUE
HEB(NZ) 1600	GROUND FLOOR ENCLOSED	240 MINUTES*	33	30	66	45	1.30
HEB(NZ) 1601	GROUND FLOOR UNENCLOSED	240 MINUTES*	33	30	66	45	0.8**
HEB(NZ) 1602	2ND STOREY CEILING (FCS 30)	30/30/30	55	48	72	35	2.91
HEB(NZ) 1603	2ND STOREY CEILING (FCS 60)	60/60/60	57	50	74	34	2.99
HEB(NZ) 1604	2ND STOREY GYPROCK CEILING (CSR827)	90/90/90	58	52	75	32	3.02

CSR

hebel

The better way to build

Unit 3, 38b Birmingham Drive
P O Box 29354
DhristDhurDh 8540, New Zealand

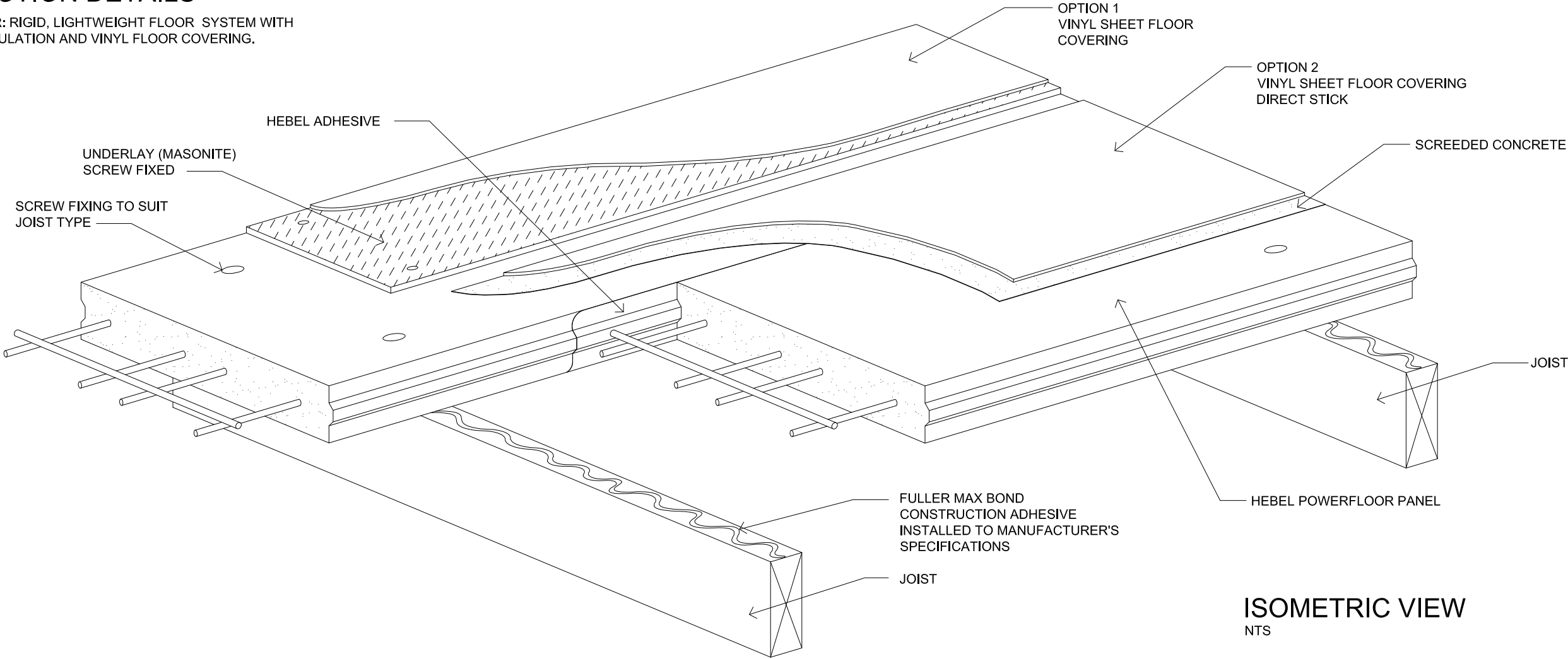
Phone: 0800 4 HEBEL (0800 443 235),
Email: info@hebel.co.nz,
Web: www.hebel.co.nz

CSR Hebel is a division of CSR Building Products (NZ) Ltd.

FIGURE		TITLE			
HEBEL 1600 - 1604		HEBEL POWERFLOOR SYSTEM CONSTRUCTION DETAILS CARPET FLOOR COVERING			
DESIGN GUIDE REFERENCE HELI014 APRIL 2014	SCALE NTS @ A3	SHEET SIZE A3		DRAWN AL	DATE 19.05.14
		SHEET NO. 1 of 5		CHECK CW	REVISION D

HEBEL POWERFLOOR SYSTEM VINYL SHEET WITH MASONITE
CONSTRUCTION DETAILS

RECOMMENDED FOR: RIGID, LIGHTWEIGHT FLOOR SYSTEM WITH
GOOD THERMAL INSULATION AND VINYL FLOOR COVERING.



ISOMETRIC VIEW
NTS

NOTE: PATCHING OF RECESSES AT FIXINGS OR
LOCALISED CHIPPING MAY BE REQUIRED PRIOR
TO INSTALLATION OF FLOOR COVERINGS.

NOTE: *FIRE SOURCE FROM ABOVE ONLY.
** SUITABLE UNDERFLOOR INSULATION MAY BE INSTALLED TO ACHIEVE FLOOR R-VALUE OF R1.3 AS
REQUIRED BY NZBC CLAUSE H1 (ENERGY EFFICIENCY)

REFER TO SPECIFICATION GBSC 30 (USING RESILIENT MOUNTS WHEN FIXING THE RONDO FURRING CHANNEL
TO THE UNDERSIDE OF JOISTS) IN THE PUBLICATION 'GIB FIRE RATED SYSTEM SPECIFICATION AND
INSTALLATION MANUAL, OCTOBER 2012' FOR INSTALLATION OF THE GIB PLASTERBOARD CEILING LININGS FOR
SYSTEM FCS 30 AND SPECIFICATION GBDFA 60c IN THE PUBLICATION 'GIB NOISE CONTROL SYSTEMS MARCH,
2006' FOR INSTALLATION OF THE GIB PLASTERBOARD CEILING LININGS FOR SYSTEM FCS 60'.

VINYL FLOOR COVERINGS		FIRE*	ACOUSTIC				THERMAL
CODE	SYSTEM DESCRIPTION	FRL	Rw/STC	Rw+Ctr	IIC	Lnw+C1	R-VALUE
HEB(NZ) 1612	GROUND FLOOR ENCLOSED	240 MINUTES*	37	33	34	76	1.02**
HEB(NZ) 1613	GROUND FLOOR UNENCLOSED	240 MINUTES*	37	33	34	76	0.52**
HEB(NZ) 1614	2ND STOREY CEILING (FSC 30)	30 /30 /30	58	51	40	70	2.63
HEB(NZ) 1615	2ND STOREY CEILING (FSC 60)	60 /60 /60	59	53	41	69	2.71
HEB(NZ) 1619	2ND STOREY GYPROCK CEILING (CSR827)	90 /90 /90	60	54	42	68	2.74

CSR

hebel

The better way to build

Unit 3, 38b Birmingham Drive
P O Box 29354
DhristDhurDh 8540, New Zealand

Phone: 0800 4 HEBEL (0800 443 235),
Email: info@hebel.co.nz,
Web: www.hebel.co.nz

CSR Hebel is a division of CSR Building Products (NZ) Ltd.

FIGURE
HEBEL 1615 - 1619

DESIGN GUIDE REFERENCE
HELIT014
APRIL 2014

TITLE
HEBEL POWERFLOOR SYSTEM CONSTRUCTION DETAILS
VINYL SHEET WITH MASONITE

SCALE
NTS @ A3

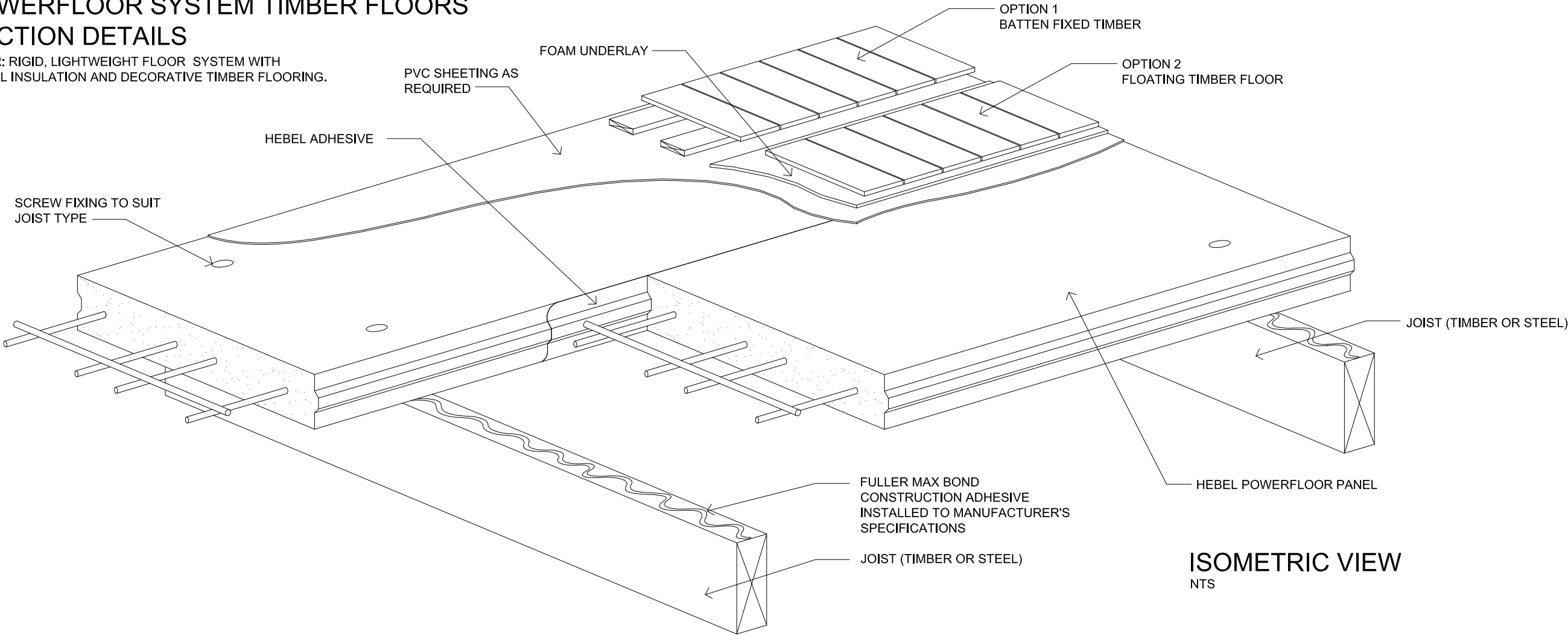
SHEET SIZE
A3
SHEET NO.
2 of 5

DRAWN
AL
CHECK
CW

DATE
19.05.14
REVISION
D

HEBEL POWERFLOOR SYSTEM TIMBER FLOORS
CONSTRUCTION DETAILS

RECOMMENDED FOR: RIGID, LIGHTWEIGHT FLOOR SYSTEM WITH
EXCELLENT THERMAL INSULATION AND DECORATIVE TIMBER FLOORING.



TIMBER FLOOR COVERINGS (ON BATTENS)		FIRE*	ACOUSTIC				THERMAL
CODE	SYSTEM DESCRIPTION	FRL	Rw/STC	Rw+Ctr	IIC	Lnw+C1	R-VALUE
HEB(NZ) 1616	GROUND FLOOR ENCLOSED	240 MINUTES*	37	33	25	83	1.11**
HEB(NZ) 1617	GROUND FLOOR UNENCLOSED	240 MINUTES*	37	33	25	83	0.61**
HEB(NZ) 1618	2ND STOREY CEILING (FSC 30)	30 /30 /30	55	48	44	66	2.91
HEB(NZ) 1619	2ND STOREY CEILING (FSC 60)	60 /60 /60	57	49	45	65	2.99
HEB(NZ) 1624	2ND STOREY GYPROCK CEILING (CSR827)	90 /90 /90	58	50	47	63	3.02

TIMBER FLOOR COVERINGS (FLOATING FLOOR)		FIRE*	ACOUSTIC				THERMAL
CODE	SYSTEM DESCRIPTION	FRL	Rw/STC	Rw+Ctr	IIC	Lnw+C1	R-VALUE
HEB(NZ) 1620	GROUND FLOOR ENCLOSED	240 MINUTES*	37	33	25	83	1.17**
HEB(NZ) 1621	GROUND FLOOR UNENCLOSED	240 MINUTES*	37	33	25	83	0.67**
HEB(NZ) 1622	2ND STOREY CEILING (FSC 30)	30 /30 /30	55	48	44	66	2.78
HEB(NZ) 1623	2ND STOREY CEILING (FSC 60)	60 /60 /60	57	48	40-50	60-70	2.86
HEB(NZ) 1629	2ND STOREY GYPROCK CEILING (CSR827)	90 /90 /90	58	51	41	69	2.89

NOTE: *FIRE SOURCE FROM ABOVE ONLY.
** SUITABLE UNDERFLOOR INSULATION MAY BE INSTALLED TO ACHIEVE FLOOR R-VALUE OF R1.3 AS
REQUIRED BY NZBC CLAUSE H1 (ENERGY EFFICIENCY)

NOTE: PATCHING OF RECESSES AT FIXINGS OR
LOCALISED CHIPPING MAY BE REQUIRED PRIOR
TO INSTALLATION OF FLOOR COVERINGS.

REFER TO SPECIFICATION GBSC 30 (USING RESILIENT MOUNTS WHEN FIXING THE RONDO FURRING CHANNEL
TO THE UNDERSIDE OF JOISTS) IN THE PUBLICATION 'GIB FIRE RATED SYSTEM SPECIFICATION AND
INSTALLATION MANUAL, OCTOBER 2012' FOR INSTALLATION OF THE GIB PLASTERBOARD CEILING LININGS FOR
SYSTEM FCS 30 AND SPECIFICATION GBDFA 60c IN THE PUBLICATION 'GIB NOISE CONTROL SYSTEMS MARCH,
2006' FOR INSTALLATION OF THE GIB PLASTERBOARD CEILING LININGS FOR SYSTEM FCS 60'.

CSR

hebel

The better way to build

Unit 3, 38b Birmingham Drive
P O Box 29354
DhristDhurDh 8540, New Zealand

Phone: 0800 4 HEBEL (0800 443 235),
Email: info@hebel.co.nz,
Web: www.hebel.co.nz

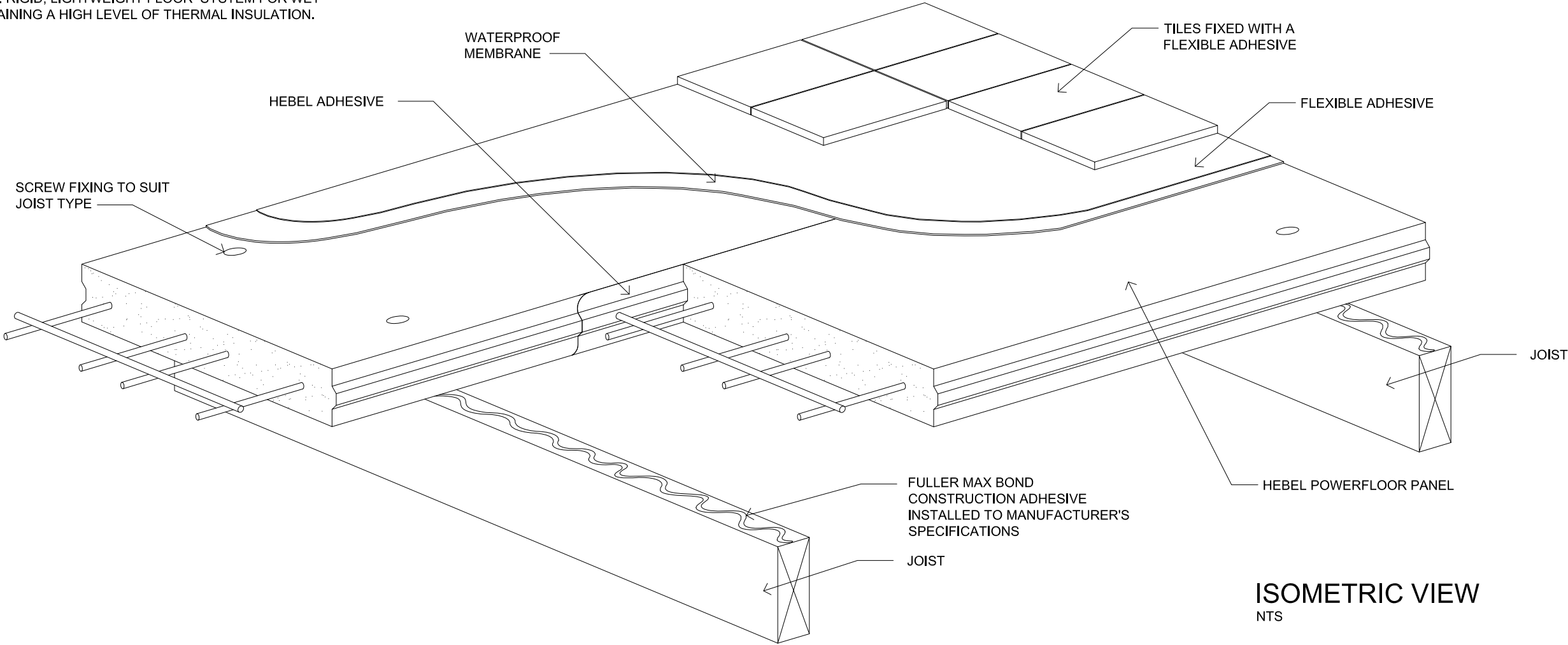
CSR Hebel is a division of CSR Building Products (NZ) Ltd.

FIGURE		TITLE			
HEBEL 1620 - 1629		HEBEL POWERFLOOR SYSTEM CONSTRUCTION DETAILS TIMBER FLOOR COVERINGS			
DESIGN GUIDE REFERENCE HELI014 APRIL 2014	SCALE	SHEET SIZE	DRAWN	DATE	
	NTS @ A3	A3 SHEET NO. 3 of 5	AL CHECK CW	19.05.14 REVISION D	

HEBEL POWERFLOOR SYSTEM 8mm CERAMIC TILES

CONSTRUCTION DETAILS

RECOMMENDED FOR: RIGID, LIGHTWEIGHT FLOOR SYSTEM FOR WET AREAS WHILE MAINTAINING A HIGH LEVEL OF THERMAL INSULATION.



ISOMETRIC VIEW
NTS

NOTE: PATCHING OF RECESSES AT FIXINGS OR LOCALISED CHIPPING MAY BE REQUIRED PRIOR TO INSTALLATION OF FLOOR COVERINGS.

NOTE: *FIRE SOURCE FROM ABOVE ONLY.
** SUITABLE UNDERFLOOR INSULATION MAY BE INSTALLED TO ACHIEVE FLOOR R-VALUE OF R1.3 AS REQUIRED BY NZBC CLAUSE H1 (ENERGY EFFICIENCY)

REFER TO SPECIFICATION GBSC 30 (USING RESILIENT MOUNTS WHEN FIXING THE RONDO FURRING CHANNEL TO THE UNDERSIDE OF JOISTS) IN THE PUBLICATION 'GIB FIRE RATED SYSTEM SPECIFICATION AND INSTALLATION MANUAL, OCTOBER 2012' FOR INSTALLATION OF THE GIB PLASTERBOARD CEILING LININGS FOR SYSTEM FCS 30 AND SPECIFICATION GBDFA 60c IN THE PUBLICATION 'GIB NOISE CONTROL SYSTEMS MARCH, 2006' FOR INSTALLATION OF THE GIB PLASTERBOARD CEILING LININGS FOR SYSTEM FCS 60'.

8mm CERAMIC TILES ON FLEXILE ADHESIVE		FIRE*	ACOUSTIC				THERMAL
CODE	SYSTEM DESCRIPTION	FRL	Rw/STC	Rw+Ctr	IIC	Lnw + C1	R-VALUE
HEB(NZ) 1604	GROUND FLOOR ENCLOSED	240 MINUTES*	36	31	13	72	1.03**
HEB(NZ) 1605	GROUND FLOOR UNENCLOSED	240 MINUTES*	36	31	13	72	0.53**
HEB(NZ) 1606	2ND STOREY CEILING (FCS 30)	30/30/30	54	48	28	64	2.64
HEB(NZ) 1607	2ND STOREY CEILING (FCS 60)	60/60/60	57	51	33	60	2.72
HEB(NZ) 1609	2ND STOREY GYPROCK CEILING (CSR827)	90/90/90	58	52	32	60	2.75

CSR

hebel

The better way to build

CSR Hebel is a division of CSR Building Products (NZ) Ltd.

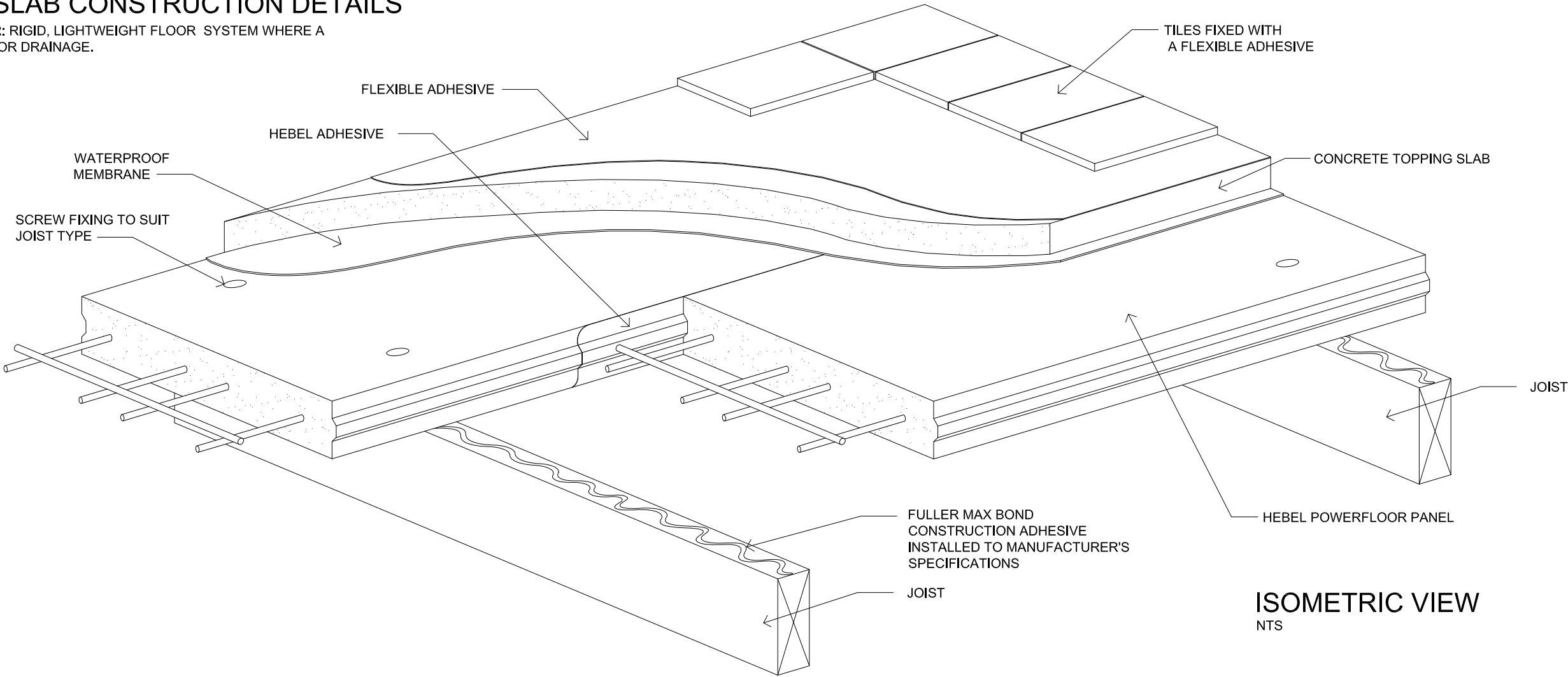
Unit 3, 38b Birmingham Drive
P O Box 29354
DhristDhurDh 8540, New Zealand

Phone: 0800 4 HEBEL (0800 443 235),
Email: info@hebel.co.nz,
Web: www.hebel.co.nz

FIGURE		TITLE			
HEBEL 1605 - 1609		HEBEL POWERFLOOR SYSTEM CONSTRUCTION DETAILS 8mm CERAMIC TILES FLOOR COVERING			
SCALE		SHEET SIZE	DRAWN	DATE	
NTS @ A3		A3	AL	19.05.14	
DESIGN GUIDE REFERENCE		SHEET NO.	CHECK	REVISION	
HELI014 APRIL 2014		4 of 5	CW	D	

HEBEL POWERFLOOR SYSTEM 8mm CERAMIC TILES ON 50mm TOPPING SLAB CONSTRUCTION DETAILS

RECOMMENDED FOR: RIGID, LIGHTWEIGHT FLOOR SYSTEM WHERE A FALL IS REQUIRED FOR DRAINAGE.



NOTE: PATCHING OF RECESSES AT FIXINGS OR LOCALISED CHIPPING MAY BE REQUIRED PRIOR TO INSTALLATION OF FLOOR COVERINGS.

NOTE: *FIRE SOURCE FROM ABOVE ONLY.
** SUITABLE UNDERFLOOR INSULATION MAY BE INSTALLED TO ACHIEVE FLOOR R-VALUE OF R1.3 AS REQUIRED BY NZBC CLAUSE H1 (ENERGY EFFICIENCY)

REFER TO SPECIFICATION GBSC 30 (USING RESILIENT MOUNTS WHEN FIXING THE RONDO FURRING CHANNEL TO THE UNDERSIDE OF JOISTS) IN THE PUBLICATION 'GIB FIRE RATED SYSTEM SPECIFICATION AND INSTALLATION MANUAL, OCTOBER 2012' FOR INSTALLATION OF THE GIB PLASTERBOARD CEILING LININGS FOR SYSTEM FCS 30 AND SPECIFICATION GBDFA 60c IN THE PUBLICATION 'GIB NOISE CONTROL SYSTEMS MARCH, 2006' FOR INSTALLATION OF THE GIB PLASTERBOARD CEILING LININGS FOR SYSTEM FCS 60'.

8mm CERAMIC TILES ON FLEXILE ADHESIVE		FIRE*	ACOUSTIC				THERMAL
CODE	SYSTEM DESCRIPTION	FRL	Rw/STC	Rw+Ctr	IIC	Lnw + C1	R-VALUE
HEB(NZ) 1608	GROUND FLOOR ENCLOSED	240 MINUTES*	37	33	18	72	1.06**
HEB(NZ) 1609	GROUND FLOOR UNENCLOSED	240 MINUTES*	37	33	18	72	0.56**
HEB(NZ) 1610	2ND STOREY CEILING (FCS 30)	30/30/30	56	49	33	57	2.68
HEB(NZ) 1611	2ND STOREY CEILING (FCS 60)	60/60/60	58	52	35	55	2.75
HEB(NZ) 1614	2ND STOREY GYPROCK CEILING (CSR827)	90/90/90	59	53	36	54	2.79

CSR

hebel

The better way to build

CSR Hebel is a division of CSR Building Products (NZ) Ltd.

Unit 3, 38b Birmingham Drive
P O Box 29354
DhristDhurDh 8540, New Zealand

Phone: 0800 4 HEBEL (0800 443 235),
Email: info@hebel.co.nz,
Web: www.hebel.co.nz

FIGURE		TITLE			
HEBEL 1610 - 1614		HEBEL POWERFLOOR SYSTEM CONSTRUCTION DETAILS 8mm TILES (ON 50mm TOPPING SLAB) FLOOR COVERING			
DESIGN GUIDE REFERENCE		SCALE	SHEET SIZE	DRAWN	DATE
HELI014 APRIL 2014		NTS @ A3	A3	AL	19.05.14
			SHEET NO.	CHECK	REVISION
			5 of 5	CW	D