

Table S1. Overview of EPDs included in study.

EPD Program	EPD ID	Product category	Reported biogenic carbon (kg CO2/m3)	Calculated biogenic carbon (kg CO2/m3)	Country	Density of product (kg/m3)	System boundary description	EoL Scenario
ASTM International	EPD125	Glulam		875	Canada	544	A1-A3	Not applicable
ASTM International	EPD124	CLT	875		Canada	481	A1-A3	Not applicable
ASTM International	EPD157	Glulam		682	Canada	449	A1-A3	Not applicable
B-EPD	B-EPD n° 210096_001	Glulam		777	Belgium	512.8	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario
B-EPD	B-EPD n° 2000102_002_EN	CLT		749	Belgium	470	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario
B-EPD	B-EPD n° 200102_001_EN	CLT		750	Belgium	470	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario
BRE	BREGENEPD000124	timber	712		UK	479	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario
BRE	BREGENEPD000171	timber	1240		UK	585	A1-A3_A4	Not applicable
ENVIRONDEC	S-P-01325	timber	715		Sweden	455	A1-A3	Not applicable
ENVIRONDEC	S-P-01345	Glulam		818	Spain	525	A1-A3	Not applicable
ENVIRONDEC	S-P-01314	CLT		840	Spain	525	A1-A3_A4-A5_C1-C2_C3-C4	Recycling
ENVIRONDEC	S-P-00565	Glulam	1017		Australia	621	A1-A3_C3-C4	Landfill
ENVIRONDEC	S-P-00565	Glulam	1017		Australia	621	A1-A3_C3-C4	Landfill
ENVIRONDEC	S-P-00565	Glulam	1017		Australia	621	A1-A3_C3-C4	Energy recovery
ENVIRONDEC	S-P-00565	Glulam	1017		Australia	621	A1-A3_C3-C4	Reuse
ENVIRONDEC	S-P-00565	Glulam	1017		Australia	621	A1-A3_C3-C4	Recycling
ENVIRONDEC	S-P-00565	Glulam	1118		Australia	674	A1-A3_C3-C4	Landfill
ENVIRONDEC	S-P-00565	Glulam	1118		Australia	674	A1-A3_C3-C4	Landfill
ENVIRONDEC	S-P-00565	Glulam	1118		Australia	674	A1-A3_C3-C4	Energy recovery
ENVIRONDEC	S-P-00565	Glulam	1118		Australia	674	A1-A3_C3-C4	Reuse
ENVIRONDEC	S-P-00565	Glulam	1118		Australia	674	A1-A3_C3-C4	Recycling
ENVIRONDEC	S-P-00561	timber	1220		Australia	735	A1-A3_C4	Landfill
ENVIRONDEC	S-P-00561	timber	1220		Australia	735	A1-A3_C4	Landfill
ENVIRONDEC	S-P-00561	timber	1220		Australia	735	A1-A3_C4	Energy recovery
ENVIRONDEC	S-P-00561	timber	1220		Australia	735	A1-A3_C4	Recycling
ENVIRONDEC	S-P-00561	timber	1220		Australia	735	A1-A3_C4	Reuse
ENVIRONDEC	S-P-00561	timber	1220		Australia	735	A1-A3_C4	Landfill
ENVIRONDEC	S-P-00561	timber	1220		Australia	735	A1-A3_C4	Landfill
ENVIRONDEC	S-P-00561	timber	1220		Australia	735	A1-A3_C4	Energy recovery
ENVIRONDEC	S-P-00561	timber	1220		Australia	735	A1-A3_C4	Recycling
ENVIRONDEC	S-P-00561	timber	1220		Australia	735	A1-A3_C4	Reuse
ENVIRONDEC	S-P-00561	timber	1220		Australia	768	A1-A3_C4	Landfill
ENVIRONDEC	S-P-00561	timber	1220		Australia	768	A1-A3_C4	Landfill
ENVIRONDEC	S-P-00561	timber	1220		Australia	768	A1-A3_C4	Energy recovery
ENVIRONDEC	S-P-00561	timber	1220		Australia	768	A1-A3_C4	Recycling
ENVIRONDEC	S-P-00561	timber	1220		Australia	768	A1-A3_C4	Reuse
ENVIRONDEC	S-P-00560	timber	900		Australia	551	A1-A3_C4	Landfill
ENVIRONDEC	S-P-00560	timber	900		Australia	551	A1-A3_C4	Landfill
ENVIRONDEC	S-P-00560	timber	900		Australia	551	A1-A3_C4	Energy recovery
ENVIRONDEC	S-P-00560	timber	900		Australia	551	A1-A3_C4	Recycling
ENVIRONDEC	S-P-00560	timber	900		Australia	551	A1-A3_C4	Landfill
ENVIRONDEC	S-P-00560	timber	900		Australia	551	A1-A3_C4	Landfill
ENVIRONDEC	S-P-00560	timber	900		Australia	551	A1-A3_C4	Energy recovery
ENVIRONDEC	S-P-00560	timber	900		Australia	551	A1-A3_C4	Recycling
ENVIRONDEC	S-P-02537	timber	715		Sweden	455	A1-A3_C1-C2_C3-C4	Energy recovery
ENVIRONDEC	S-P-02153	timber	717		Finland	450	A1-A3_A5_C1-C2_C3-C4	Reuse
ENVIRONDEC	S-P-02153	timber	717		Finland	450	A1-A3_A5_C1-C2_C3-C4	Recycling
ENVIRONDEC	S-P-02153	timber	717		Finland	450	A1-A3_A5_C1-C2_C3-C4	Energy recovery
ENVIRONDEC	S-P-02153	timber	717		Finland	450	A1-A3_A5_C1-C2_C3-C4	Landfill
ENVIRONDEC	S-P-02033	CLT	762		Finland	470	A1-A3_A4-A5_C1-C2_C3-C4	Reuse
ENVIRONDEC	S-P-02033	CLT	762		Finland	470	A1-A3_A4-A5_C1-C2_C3-C4	Recycling
ENVIRONDEC	S-P-02033	CLT	762		Finland	470	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
ENVIRONDEC	S-P-02033	CLT	762		Finland	470	A1-A3_A4-A5_C1-C2_C3-C4	Landfill
ENVIRONDEC	S-P-01408	CLT	520		Italy	400	A1-A3	Not applicable
ENVIRONDEC	S-P-02150	timber	733		Finland	460	A1-A3_C1-C2_C3-C4	Reuse
ENVIRONDEC	S-P-02150	timber	733		Finland	460	A1-A3_C1-C2_C3-C4	Recycling
ENVIRONDEC	S-P-02150	timber	733		Finland	460	A1-A3_C1-C2_C3-C4	Energy recovery
ENVIRONDEC	S-P-02150	timber	733		Finland	460	A1-A3_C1-C2_C3-C4	Landfill
ENVIRONDEC	S-P-01732	LVL	804		Finland	510	A1-A3_A4-A5_C1-C2_C3-C4	Reuse
ENVIRONDEC	S-P-01732	LVL	804		Finland	510	A1-A3_A4-A5_C1-C2_C3-C4	Recycling
ENVIRONDEC	S-P-01732	LVL	804		Finland	510	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
ENVIRONDEC	S-P-01732	LVL	804		Finland	510	A1-A3_A4-A5_C1-C2_C3-C4	Landfill
ENVIRONDEC	S-P-01731	LVL	804		Finland	510	A1-A3_A4-A5_C1-C2_C3-C4	Reuse
ENVIRONDEC	S-P-01731	LVL	804		Finland	510	A1-A3_A4-A5_C1-C2_C3-C4	Recycling

ENVIRONDEC	S-P-01731	LVL	804		Finland	510	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
ENVIRONDEC	S-P-01731	LVL	804		Finland	510	A1-A3_A4-A5_C1-C2_C3-C4	Landfill
ENVIRONDEC	S-P-01730	LVL	804		Finland	510	A1-A3_A4-A5_C1-C2_C3-C4	Reuse
ENVIRONDEC	S-P-01730	LVL	804		Finland	510	A1-A3_A4-A5_C1-C2_C3-C4	Recycling
ENVIRONDEC	S-P-01730	LVL	804		Finland	510	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
ENVIRONDEC	S-P-01730	LVL	804		Finland	510	A1-A3_A4-A5_C1-C2_C3-C4	Landfill
ENVIRONDEC	S-P-00997	timber		791	New Zealan	488	A1-A3_C3-C4	Landfill
ENVIRONDEC	S-P-00997	timber		791	New Zealan	488	A1-A3_C3-C4	Energy recovery
ENVIRONDEC	S-P-00997	timber		791	New Zealan	488	A1-A3_C3-C4	Reuse
ENVIRONDEC	S-P-00997	timber		791	New Zealan	488	A1-A3_C3-C4	Recycling
ENVIRONDEC	S-P-00997	timber		788	New Zealan	486	A1-A3_C3-C4	Landfill
ENVIRONDEC	S-P-00997	timber		788	New Zealan	486	A1-A3_C3-C4	Energy recovery
ENVIRONDEC	S-P-00997	timber		788	New Zealan	486	A1-A3_C3-C4	Reuse
ENVIRONDEC	S-P-00997	timber		788	New Zealan	486	A1-A3_C3-C4	Recycling
ENVIRONDEC	S-P-00997	Glulam		798	New Zealan	491	A1-A3_C3-C4	Landfill
ENVIRONDEC	S-P-00997	Glulam		798	New Zealan	491	A1-A3_C3-C4	Energy recovery
ENVIRONDEC	S-P-00997	Glulam		798	New Zealan	491	A1-A3_C3-C4	Reuse
ENVIRONDEC	S-P-00997	Glulam		798	New Zealan	491	A1-A3_C3-C4	Recycling
ENVIRONDEC	S-P-00997	CLT		807	New Zealan	500	A1-A3_C3-C4	Landfill
ENVIRONDEC	S-P-00997	CLT		807	New Zealan	500	A1-A3_C3-C4	Energy recovery
ENVIRONDEC	S-P-00997	CLT		807	New Zealan	500	A1-A3_C3-C4	Reuse
ENVIRONDEC	S-P-00997	CLT		807	New Zealan	500	A1-A3_C3-C4	Recycling
ENVIRONDEC	S-P-02326	CLT	781		Australia	480	A1-A3_A4_C3-C4	Landfill
ENVIRONDEC	S-P-02326	CLT	781		Australia	480	A1-A3_A4_C3-C4	Landfill
ENVIRONDEC	S-P-02326	CLT	781		Australia	480	A1-A3_A4_C3-C4	Energy recovery
ENVIRONDEC	S-P-02326	CLT	781		Australia	480	A1-A3_A4_C3-C4	Reuse
ENVIRONDEC	S-P-02326	CLT	781		Australia	480	A1-A3_A4_C3-C4	Recycling
ENVIRONDEC	S-P-01714	timber		837	Basque	525	A1-A3	Not applicable
EPD Danmark	MD-20001-EN	timber		767	Denmark	644	A1-A3_C2_C3-C4	Energy recovery
EPD Danmark	MD-20001-EN	timber		767	Denmark	644	A1-A3_C2_C3-C4	Recycling
EPD Danmark	MD-20002-EN	timber		702	Denmark	456	A1-A3_C2_C3-C4	Energy recovery
EPD Danmark	MD-20002-EN	timber		702	Denmark	456	A1-A3_C2_C3-C4	Recycling
EPD Danmark	MD-20003-EN	timber		806	Denmark	536	A1-A3_C2_C3-C4	Energy recovery
EPD Danmark	MD-20003-EN	timber		806	Denmark	536	A1-A3_C2_C3-C4	Recycling
EPD Danmark	MD-20004-EN	timber		702	Denmark	456	A1-A3_C2_C3-C4	Energy recovery
EPD Danmark	MD-20004-EN	timber		702	Denmark	456	A1-A3_C2_C3-C4	Recycling
EPD Danmark	MD-20005-EN	Glulam		788	Denmark	500	A1-A3_C2_C3-C4	Energy recovery
EPD Danmark	MD-20005-EN	Glulam		788	Denmark	500	A1-A3_C2_C3-C4	Recycling
EPD Danmark	MD-20007-EN	CLT		750	Denmark	470	A1-A3_C2_C3-C4	Energy recovery
EPD Danmark	MD-20007-EN	CLT		750	Denmark	470	A1-A3_C2_C3-C4	Recycling
EPD -NORWAY	NEPD-2587-1314-EN	CLT		702	Sweden	430	A1-A3_A4-A5_C1-C2_C3	Energy recovery
EPD -NORWAY	NEPD-345-236-NO	CLT	718		Sweden	430	A1-A3	Not applicable
EPD -NORWAY	NEPD-346-236-NO	Glulam	718		Sweden	430	A1-A3	Not applicable
EPD -NORWAY	NEPD-395-279-NO	timber			Norway	460	A1-A3_A4-A5_C1-C2_C3-C4	Recycling
EPD -NORWAY	NEPD-456-318-EN	Glulam	718		Sweden	430	A1-A3_A4	Not applicable
EPD -NORWAY	NEPD-1269-410-EN	CLT	708		Latvia	420	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
EPD -NORWAY	NEPD-1576-605-NO	Glulam	688		Norway	425	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
EPD -NORWAY	NEPD-1577-605-NO	Glulam	688		Norway	426	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
EPD -NORWAY	NEPD-1662-655-EN	Glulam	704		Sweden	434	A1-A3_A4	Energy recovery
EPD -NORWAY	NEPD-2531-1274-NO	Glulam	770		Norway	480	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
EPD -NORWAY	NEPD-2042-902-NO	CLT	687		Norway	425	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
EPD -NORWAY	NEPD-2547-1284-NO	timber	800		Norway	509	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
EPD -NORWAY	NEPD-1937-857-NO	timber	687		Norway	439.8	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
EPD -NORWAY	NEPD-2546-1284-NO	timber	800		Norway	509	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
IBU	EPD-RUB-20180060-IBB1-EN	CLT		744	Italy	461	A1-A3_C3	Energy recovery
IBU	EPD-SHL-20180035-IBG1-EN	CLT	755		Germany	470	A1-A3_A5_C2_C3	Energy recovery
IBU	EPD-SHL-20180026-IBG1-EN	Glulam	771		Germany	476	A1-A3_A5_C2_C3	Energy recovery
IBU	EPD-SHL-20180027-IBG1-EN	Glulam	774		Germany	483	A1-A3_A5_C2_C3	Energy recovery
IBU	EPD-RUB-20180058-IBB1-EN	Glulam		757	Austria	464	A1-A3_C3	Energy recovery
IBU	EPD-RUB-20180062-IBB1-EN	Glulam		808	Italy	495	A1-A3_C3	Energy recovery
IBU	EPD-EGG-20140247-IBA2-EN	timber		790	Germany	507	A1-A3	Not applicable
IBU	EPD-EGG-20140246-IBA2-EN	timber			Germany	740	A1-A3	Not applicable
IBU	EPD-EGG-20140248-IBA2-EN	timber		762	Germany	489	A1-A3	Not applicable
IBU	EPD-SLH-20180066-IBC1-EN	Glulam		688	Switzerland	424	A1-A3_A4-A5_C2_C3-C4	Not specified
IBU	EPD-STE-20190005-IBC1-EN	LVL	881		Poland	550	A1-A3_A5_C2_C3	Energy recovery
IBU	EPD-RUB-20180059-IBB1-EN	timber		772	Austria	465	A1-A3_C3	Energy recovery
IBU	EPD-BBS-20190164	Glulam	786		Austria	459.2	A1-A3_A5_C2_C3	Energy recovery
IBU	EPD-KLH-20190027	CLT	790		Austria	480	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
IBU	EPD-BBS-20190021	CLT	901		Austria	471	A1-A3_A5_C2_C3	Energy recovery
INIES	n° 7-1765:2018	timber	691		France	451	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario

INIES	n° 7-1764:2018	timber	686		France	457.8	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario
INIES	n° 7-1766:2018	Glulam	836		France	535.9	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario
INIES	FDES	timber	686		France	488	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario
INIES	1-32:2019	Glulam	811		France	454.4	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario
INIES	1-3:2019	timber	741		France	493.2	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario
INIES	1-4:2019	timber	740		France	490	A1-A3_A4-A5_C2_C3-C4	Mixed scenario
INIES	1-12:2019	Glulam	725		France	485.7	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario
INIES	1-11:2019	Glulam	725		France	485.7	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario
INIES	3-210:2020	Glulam	880		Canada	560	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario
INIES	1-2:2020	Glulam	716		France	443.5	A1-A3_A4-A5_C1-C2_C3-C4	Mixed scenario
MRPI	0001277 (1.1.00134.2020)	CLT	759		Netherlands	470	A1-A3_A4-A5_C2_C3-C4	Energy recovery
MRPI	0001278 (1.1.00135.2020)	CLT	759		Netherlands	470	A1-A3_A4-A5_C2_C3-C4	Energy recovery
RTS	RTS_27_19	timber		713	Finland	474	A1-A3_A4_C1-C2_C3-C4	Energy recovery
RTS	RTS_82_20	timber		748	Finland	478.5	A1-A3_A4_C1-C2_C3-C4	Energy recovery
RTS	RTS_110_21	CLT		800	Finland	485	A1-A3_A4-A5_C1-C2_C3-C4	Energy recovery
UL Environment	4788424634.105.1	LVL	998		North Amer	548	A1-A3	Not applicable
UL Environment	4788424634.104.1	Glulam	977		North Amer	548	A1-A3	Not applicable
UL Environment	4788424634.102.1	timber	844		North Amer	460	A1-A3	Not applicable