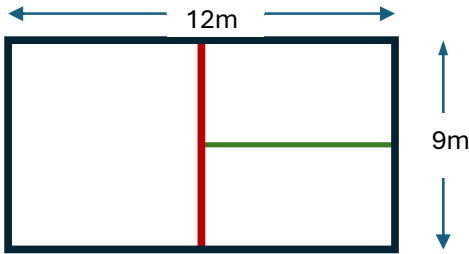
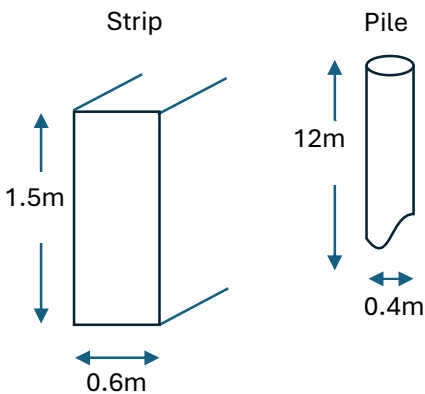
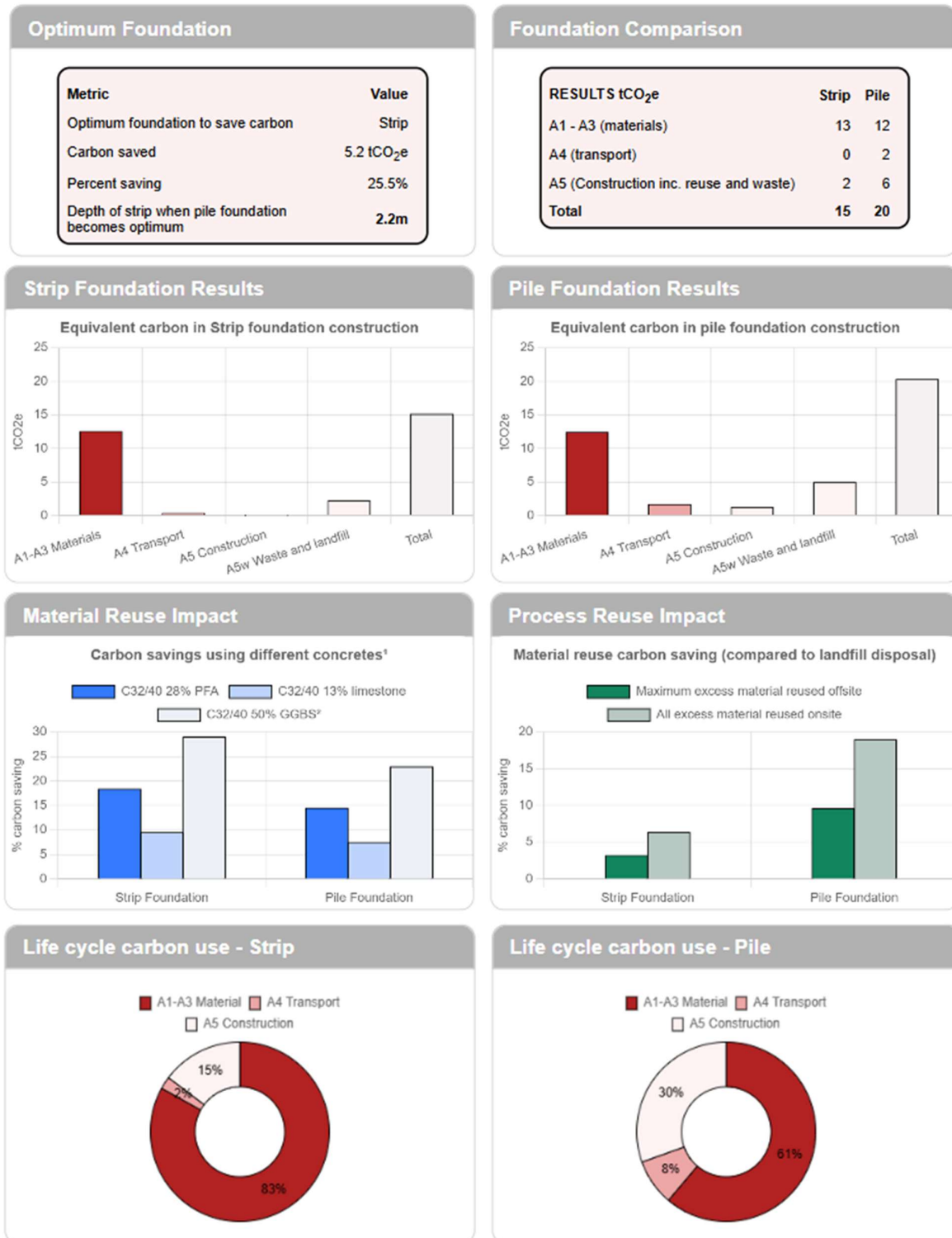


E1 – Simple detached house

Site arrangements	Input parameters																						
Site information: Site: Dorking#1 Property: Medium Detached 1 Site size: 40 properties	Site name Example#1 Property id: Detached house 1 No. new properties onsite 40																						
Property schematic (plan view):  — External wall — Internal supporting wall — Internal dividing wall	Building dimensions Maximum length (m): 12 Maximum width (m): 9 Total internal supporting wall length (m): 9																						
Geology: <table border="1"> <thead> <tr> <th>Depth(m)</th> <th>Strata</th> </tr> </thead> <tbody> <tr> <td>0.2</td> <td>Topsoil</td> </tr> <tr> <td>0.6</td> <td>Made ground</td> </tr> <tr> <td>1.0</td> <td>Sand</td> </tr> <tr> <td>>25</td> <td>Clay (high PI)</td> </tr> </tbody> </table>	Depth(m)	Strata	0.2	Topsoil	0.6	Made ground	1.0	Sand	>25	Clay (high PI)	Geology Topsoil base (m) 0.2 Made Ground base (m): 0.6 <table border="1"> <thead> <tr> <th>Subsoil</th> <th>Depth (m)</th> <th>Description</th> <th></th> </tr> </thead> <tbody> <tr> <td>Layer #1</td> <td> 1.0 </td> <td> Sand </td> <td> Add layer </td> </tr> <tr> <td>Layer #2</td> <td> 25 </td> <td> Clay highPI </td> <td> Delete </td> </tr> </tbody> </table>	Subsoil	Depth (m)	Description		Layer #1	1.0	Sand	Add layer	Layer #2	25	Clay highPI	Delete
Depth(m)	Strata																						
0.2	Topsoil																						
0.6	Made ground																						
1.0	Sand																						
>25	Clay (high PI)																						
Subsoil	Depth (m)	Description																					
Layer #1	1.0	Sand	Add layer																				
Layer #2	25	Clay highPI	Delete																				
Foundations: 	Foundations <i>Strip foundation input</i> Strip foundation width (m) 0.6 Strip Foundation depth (m): 1.5 Strip foundation reinforced No <i>Pile foundation input</i> Pile foundation diameter (m) 0.4 Pile foundation depth (m): 12 % of pile length the foundation is reinforced: 50																						

E1 – Screen Results: Simple detached house



Notes

1. Concrete saving is compared to C32/40 25% GGBS

2. Adding more GGBS or PFA may only improve carbon emissions within the project (not globally) – this is included as indicative of potential concrete savings

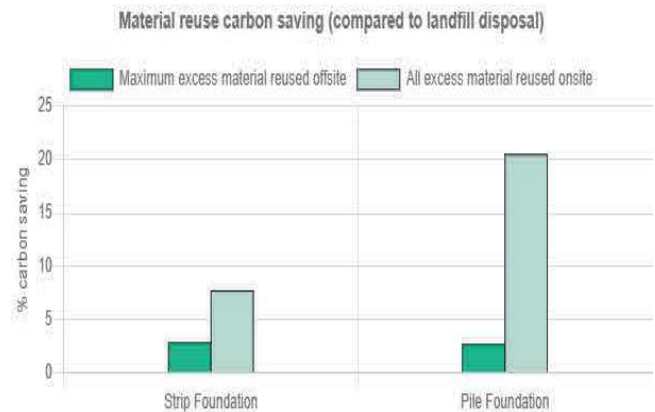
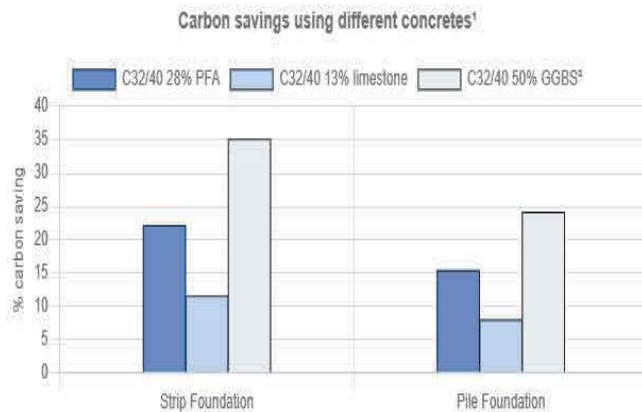
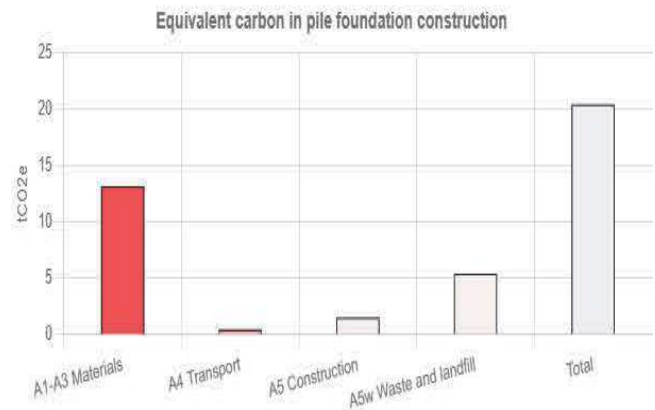
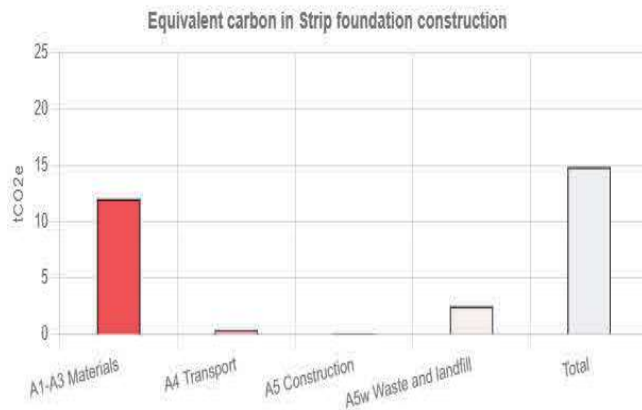
NETC Foundation Results

Site Name: Example #1

Property ID: Detached house 1

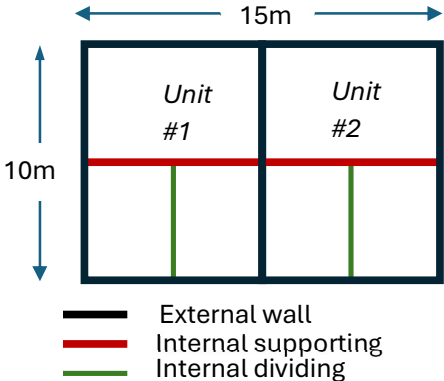
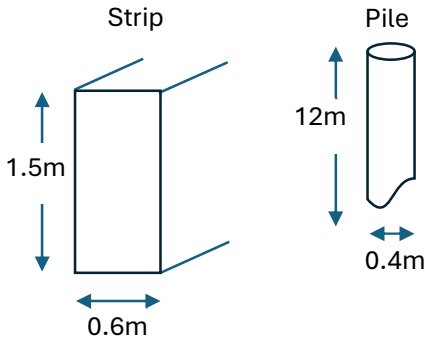
Building	Size	Strip		Pile	
Length (m)	12	Width (m)	0.6	Diameter (m)	.4
Width (m)	9	Depth (m)	1.5	Depth (m)	12
Internal wall length (m)	9	Reinforced	No	pile reinforced (%)	50

User entered data



Description	Result	Unit
Strip results	15	tCO2e
Pile results	20	tCO2e
Optimum foundation for lower carbon emissions	Strip	
Embodied carbon saved	5.6	tCO2e
Embodied carbon saved	27.3	%
Depth of strip where pile foundation more carbon efficient	2.1	m

E2 – Semi-detached house

Site arrangements	Input parameters																						
Site information: Site: Dorking#1 Property: Semi-detached #1 Site size: 40 properties	Site name Example#2 Property id: Semi-detached house 1 No. new properties onsite 40 No. new properties = all buildings onsite																						
Property schematic (plan view): 	Building dimensions Maximum length (m): 15 Maximum width (m): 10 Total internal supporting wall length (m): 25 Note: Total internal supporting length = 10 + 15 = 25m 10 – property dividing wall (black) 15 – additional internal supporting wall (red)																						
Geology: <table border="0"> <tr> <td>Depth(m)</td> <td>Strata</td> </tr> <tr> <td>0.2</td> <td>Topsoil</td> </tr> <tr> <td>0.6</td> <td>Made ground</td> </tr> <tr> <td>1.0</td> <td>Sand</td> </tr> <tr> <td>>25</td> <td>Clay (high PI)</td> </tr> </table>	Depth(m)	Strata	0.2	Topsoil	0.6	Made ground	1.0	Sand	>25	Clay (high PI)	Geology Topsoil base (m) 0.2 Made Ground base (m): 0.6 <table border="1"> <thead> <tr> <th>Subsoil</th> <th>Depth (m)</th> <th>Description</th> <th></th> </tr> </thead> <tbody> <tr> <td>Layer #1</td> <td> 1.0 </td> <td> Sand </td> <td> Add layer </td> </tr> <tr> <td>Layer #2</td> <td> 25 </td> <td> Clay highPI </td> <td> Delete </td> </tr> </tbody> </table>	Subsoil	Depth (m)	Description		Layer #1	1.0	Sand	Add layer	Layer #2	25	Clay highPI	Delete
Depth(m)	Strata																						
0.2	Topsoil																						
0.6	Made ground																						
1.0	Sand																						
>25	Clay (high PI)																						
Subsoil	Depth (m)	Description																					
Layer #1	1.0	Sand	Add layer																				
Layer #2	25	Clay highPI	Delete																				
Foundations: 	Foundations <i>Strip foundation input</i> Strip foundation width (m) 0.6 Strip Foundation depth (m): 1.5 Strip foundation reinforced No <i>Pile foundation input</i> Pile foundation diameter (m) .4 Pile foundation depth (m): 12 % of pile length the foundation is reinforced: 50																						

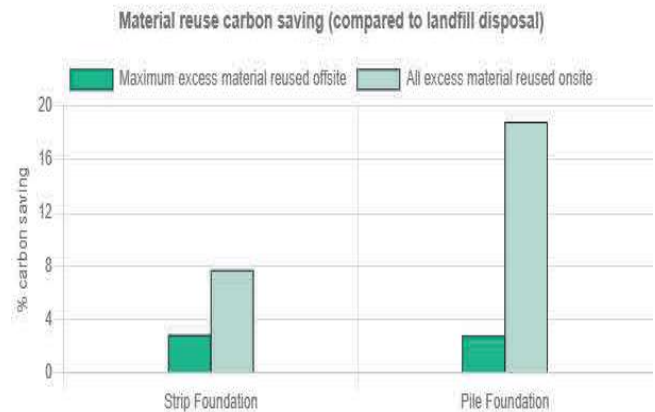
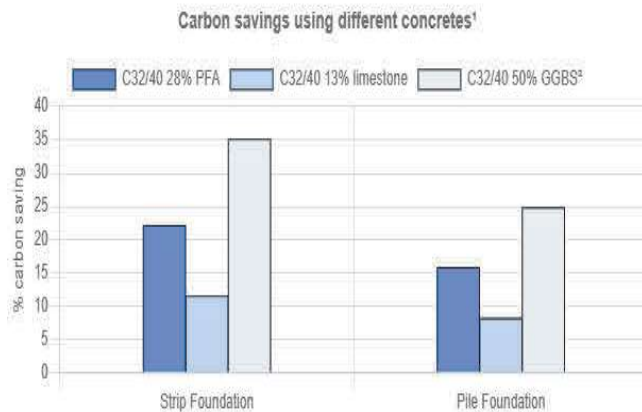
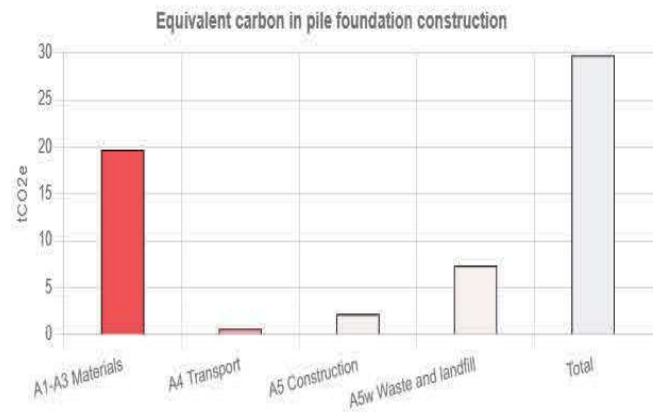
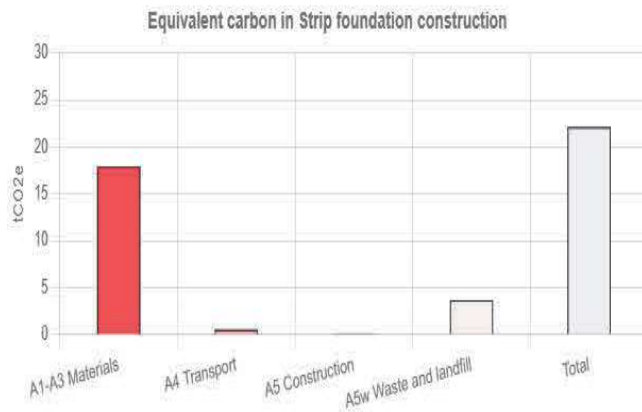
NETC Foundation Results

Site Name: Example #2

Property ID: Semi-detached house 1

Building	Size	Strip		Pile	
Length (m)	15	Width (m)	0.6	Diameter (m)	.4
Width (m)	10	Depth (m)	1.5	Depth (m)	12
Internal wall length (m)	25	Reinforced	No	pile reinforced (%)	50

User entered data



Description	Result	Unit
Strip results	22	tCO2e
Pile results	30	tCO2e
Optimum foundation for lower carbon emissions	Strip	
Embodied carbon saved	7.6	tCO2e
Embodied carbon saved	25.7	%
Depth of strip where pile foundation more carbon efficient	2.1	m

E3 – Terraced houses

Site arrangements	Input parameters															
Site information: Site: Example #3 Property: Terraced houses (3) Site size: 12 properties	Site name: Example#3 Property id: Terrace#1 (3) No. new properties onsite: 12															
Property schematic (plan view): 6m 6m 6m 10 Unit #1 Unit #2 Unit #3 — External wall — Internal supporting wall — Internal dividing wall	Building dimensions Maximum length (m): 18 Maximum width (m): 10 Total internal supporting wall length (m): 38 Note: Total internal supporting length = $18 + 2 \times 10 = 38\text{m}$ 10 – property dividing wall (black) 18 – additional internal supporting wall (red)															
Geology: Depth(m) Strata 1.0 Made ground 2.0 Clay (low PI) 10.0 Gravel >25 Clay (high PI)	Geology Topsoil base (m): 0.0 Made Ground base (m): 1.0 <table border="1"> <thead> <tr> <th>Subsoil</th> <th>Depth (m)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Layer #1</td> <td> 2.0 </td> <td> Sand and Gravel </td> </tr> <tr> <td>Layer #2</td> <td> 4.0 </td> <td> Clay lowPI </td> </tr> <tr> <td>Layer #3</td> <td> 10 </td> <td> Gravel </td> </tr> <tr> <td>Layer #4</td> <td> 25 </td> <td> Clay highPI </td> </tr> </tbody> </table> Add layer Delete	Subsoil	Depth (m)	Description	Layer #1	2.0	Sand and Gravel	Layer #2	4.0	Clay lowPI	Layer #3	10	Gravel	Layer #4	25	Clay highPI
Subsoil	Depth (m)	Description														
Layer #1	2.0	Sand and Gravel														
Layer #2	4.0	Clay lowPI														
Layer #3	10	Gravel														
Layer #4	25	Clay highPI														
Foundations: Strip 1.7m 0.6m Pile 15m 0.35m	Foundations <i>Strip foundation input</i> Strip foundation width (m): 0.6 Strip Foundation depth (m): 1.7 Strip foundation reinforced: Yes <i>Pile foundation input</i> Pile foundation diameter (m): 0.35 Pile foundation depth (m): 15 % of pile length the foundation is reinforced: 50															

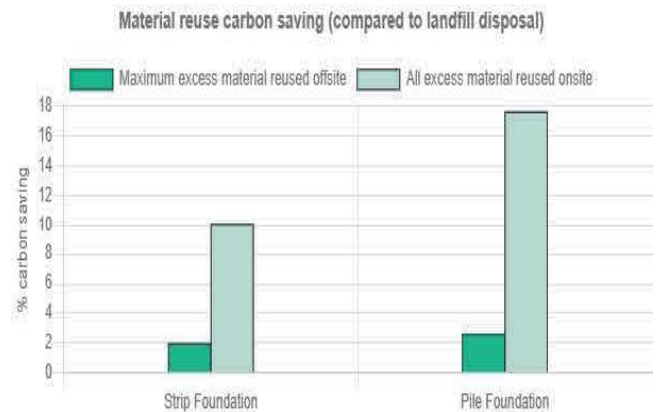
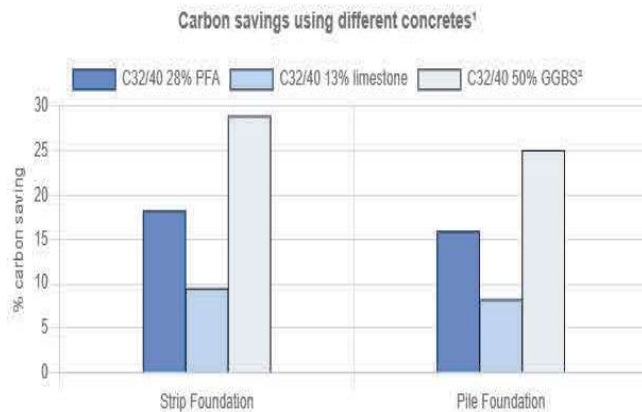
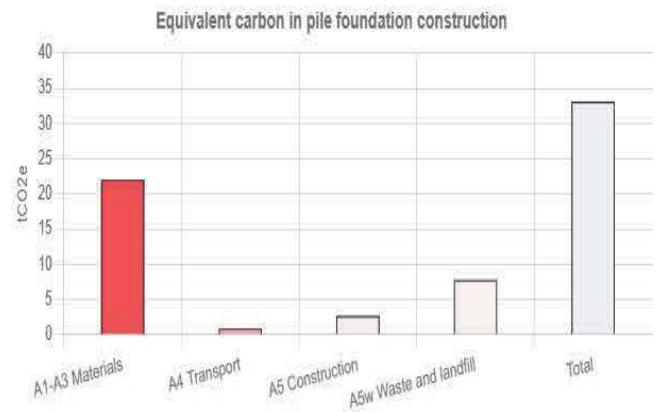
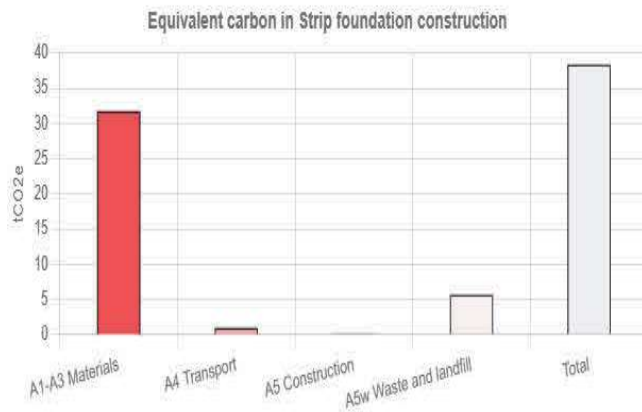
NETC Foundation Results

Site Name: Example #3

Property ID: Terrace #3 (3)

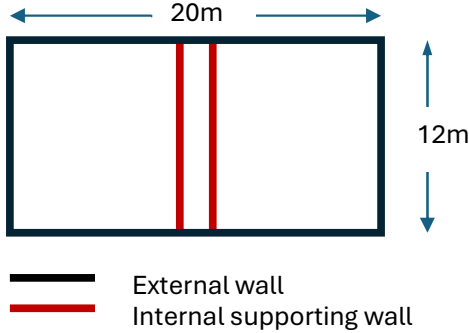
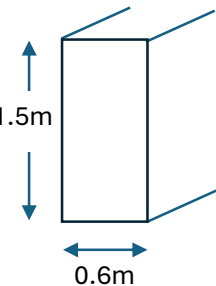
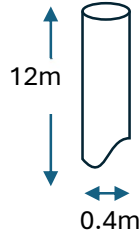
Building	Size	Strip		Pile	
Length (m)	18	Width (m)	0.6	Diameter (m)	0.35
Width (m)	10	Depth (m)	1.7	Depth (m)	15
Internal wall length (m)	38	Reinforced	Yes	pile reinforced (%)	50

User entered data



Description	Result	Unit
Strip results	38	tCO2e
Pile results	33	tCO2e
Optimum foundation for lower carbon emissions	Piled	
Embodied carbon saved	5.2	tCO2e
Embodied carbon saved	13.7	%
Depth of strip where pile foundation more carbon efficient	1.5	m

E4 – Apartment block

Site arrangements	Input parameters																						
Site information: Site: Example #4 Property: Apartment Block Site size: 3 properties	Site name: Example #4 Property id: Apartment block No. new properties onsite: 3																						
Property schematic (plan view):  — External wall — Internal supporting wall	Building dimensions Maximum length (m): 20 Maximum width (m): 12 Total internal supporting wall length (m): 24 Note: Total internal supporting length = 12+12 = 24m																						
Geology: Depth(m) <table border="1"> <tr> <td>0.5</td> <td>Strata</td> </tr> <tr> <td>1.2</td> <td>Made ground</td> </tr> <tr> <td>7.0</td> <td>Clay (low PI)</td> </tr> <tr> <td>>25</td> <td>Sand</td> </tr> <tr> <td></td> <td>Chalk</td> </tr> </table>	0.5	Strata	1.2	Made ground	7.0	Clay (low PI)	>25	Sand		Chalk	Geology Topsoil base (m): 0 Made Ground base (m): 0.5 <table border="1"> <thead> <tr> <th>Subsoil</th> <th>Depth (m)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Layer #1</td> <td> 1.2 </td> <td> Clay lowPI </td> </tr> <tr> <td>Layer #2</td> <td> 7 </td> <td> Sand </td> </tr> <tr> <td>Layer #3</td> <td> 25 </td> <td> Chalk </td> </tr> </tbody> </table> Add layer Delete	Subsoil	Depth (m)	Description	Layer #1	1.2	Clay lowPI	Layer #2	7	Sand	Layer #3	25	Chalk
0.5	Strata																						
1.2	Made ground																						
7.0	Clay (low PI)																						
>25	Sand																						
	Chalk																						
Subsoil	Depth (m)	Description																					
Layer #1	1.2	Clay lowPI																					
Layer #2	7	Sand																					
Layer #3	25	Chalk																					
Foundations: Strip  Pile 	Foundations <i>Strip foundation input</i> Strip foundation width (m): 0.6 Strip Foundation depth (m): 1.7 Strip foundation reinforced: Yes <i>Pile foundation input</i> Pile foundation diameter (m): 0.4 Pile foundation depth (m): 12 % of pile length the foundation is reinforced: 50																						

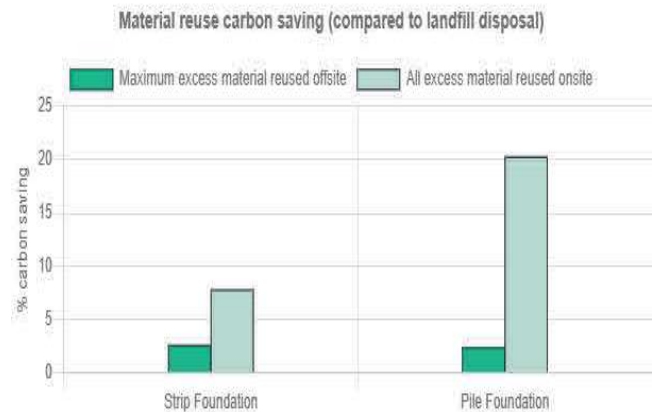
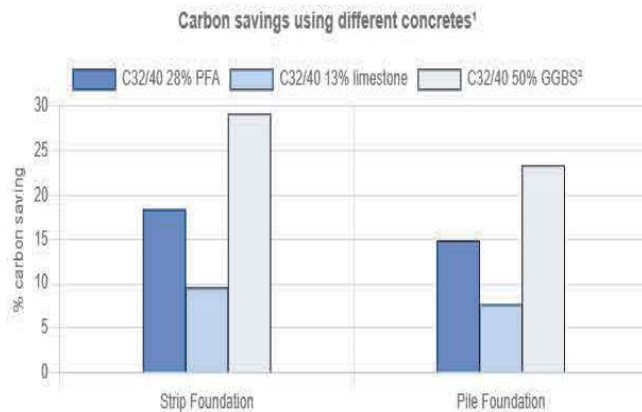
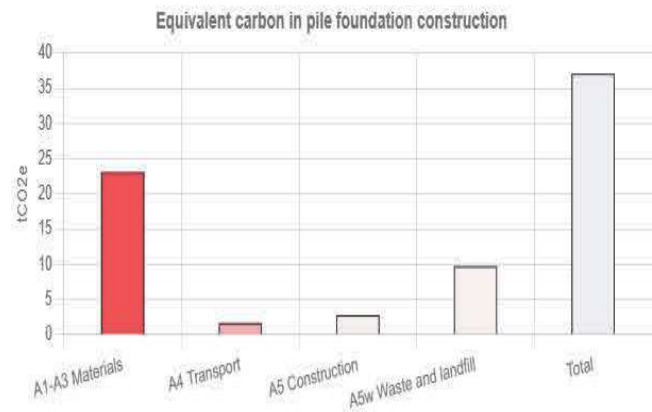
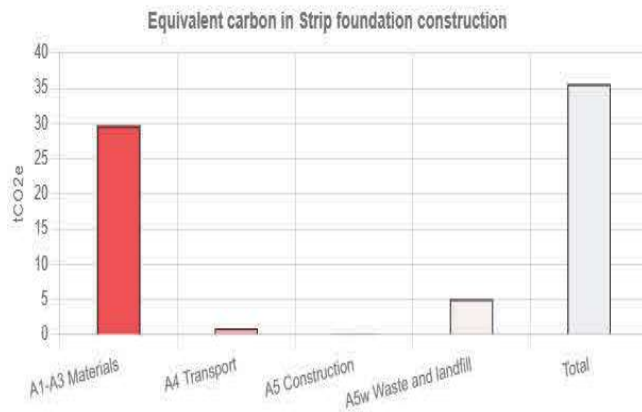
NETC Foundation Results

Site Name: Example #4

Property ID: Apartment block

Building	Size	Strip		Pile	
Length (m)	20	Width (m)	0.6	Diameter (m)	0.4
Width (m)	12	Depth (m)	1.7	Depth (m)	12
Internal wall length (m)	24	Reinforced	Yes	pile reinforced (%)	50

User entered data



Description	Result	Unit
Strip results	36	tCO2e
Pile results	37	tCO2e
Optimum foundation for lower carbon emissions	Strip	
Embodied carbon saved	1.5	tCO2e
Embodied carbon saved	4.1	%
Depth of strip where pile foundation more carbon efficient	1.8	m