

**ND.2 Form A – Schedule for the specification requirements of designed mixes**

**Corrected Mix 3 parameters**

Mix 3 requirements are not consistent through all parameters specified (contradictions exist). The most onerous values must be applied.

<p><b>1. Mix reference</b>                  NOTES: The specified values for strength class, minimum cement content and maximum water/cement ratio must be consistent with the recommended limiting values of the most onerous exposure class specified, as given in Tables NA.5, NA.6 &amp; NA.7 of the National Annex to I.S. EN 206. Any combination of cement plus addition (e.g. GGBS), if specified, must comply with requirements set out in these Tables for the combination or 'equivalent' cement type.</p>		<p><i>Example Mix 3 (Footpath mix)</i></p>	<p><i>Example Mix 3A (Footpath mix) - Mix 3 corrected</i></p>
<p><b>2. Strength class</b></p>		<p><i>C25/30</i></p>	<p><i>C40/50</i></p>
<p>Recommended limiting values from Table NA.6 (of Irish NA to EN 206) specifies a minimum strength class of C40/50 (with no air entrainment) for XF4 exposure class</p>			
<p><b>3. Nominal maximum size of aggregate, in mm (D)</b></p>		<p><i>20 mm</i></p>	<p><i>20 mm</i></p>
<p><b>4. Types of aggregate</b>                  Coarse                  Other (specify requirements)                  Fine                  Other (specify requirements)</p>	<p>I.S. EN 12620  I.S. EN 12620</p>	<p><i>Aggregates to comply with I.S. EN 12620</i></p>	<p><i>Aggregates to comply with I.S. EN 12620</i></p>
<p><b>5. Cement type(s) complying with:</b>                  (Select from Tables NA.2 and NA.3. For key to abbreviations see Table ND.1)</p>	<p>CEM I N                  CEM I R                  CEM I/SR                  CEM II/A-L (or A-LL)                  CEM II/A-V                  CEM II/B-V                  CEM II/A-S                  CEM II/B-S                  CEM II/A-M (S-V)                  CEM II/A-M (V-L)                  CEM II/B-M (S-L)                  CEM II/B-M (S-V)                  CEM III/A                  CEM III/B</p>	<p><i>CEM II/A-L or CEM I</i></p>	<p><i>CEM II/A-L or CEM I</i></p>
<p><b>6. Additions complying with</b>                  (Refer to NA.2.7. See Table ND.2 for key to abbreviations)</p>	<p>pfa ; ggbs</p>	<p><i>None</i></p>	<p><i>None</i></p>
<p><b>7. Sulfate class, if applicable</b></p>	<p>XA 1 / 200 - 600 SO<sub>4</sub><sup>2-</sup>                  XA 2 / 600 - 1400 SO<sub>4</sub><sup>2-</sup>                  XA 2 / 1400 - 3000 SO<sub>4</sub><sup>2-</sup>                  XA 3 / 3000 - 6000 SO<sub>4</sub><sup>2-</sup></p>	<p><i>N/A</i></p>	<p><i>N/A</i></p>
<p><b>8. Exposure Class</b> (as in I.S. EN 206) (or combinations)</p>	<p>X0                  XC1, XC2, XC3,                  XC4 XS1, XS2,                  XS3 XD1, XD2,                  XD3                  XF1, XF2, XF3, XF4                  XA1, XA2, XA3</p>	<p><i>XF4</i></p>	<p><i>XF4</i></p>

9. Chloride Class	Cl 1.0 Cl 0.40 Cl 0.20 Cl 0.10	0.40	0.40
10. Minimum cement content, kg/m <sup>3</sup>		300	400 ✓
<p>Recommended limiting values from Table NA.6 (of Irish NA to EN 206) specifies a minimum cement content of 400 kg/m<sup>3</sup> (with no air entrainment) for XF4 exposure class.</p>			
11. Maximum free water / cement ratio		0.6	0.45 ✓
<p>Recommended limiting values from Table NA.6 (of Irish NA to EN 206) specifies a maximum water/cement ratio of 0.45 (with no air entrainment) for XF4 exposure class.</p>			
12. Quality assurance requirements		N/A	N/A
13. Rate of sampling intended by the purchaser for strength testing (for information)		N/A	N/A
14. Other requirements (alkali, etc. as appropriate)		N/A	N/A
<p>In the case of fresh concrete the following should be completed by the purchaser.</p>			
15. Consistence (Choose one method) Slump Class Compaction Class Flow Class	S1, S2, S3, S4, S5 C0, C1, C2, C3 F1, F2, F3, F4, F5, F6	S2 (range 50 - 90 mm)	S3 (range 100 - 150 mm)
16. Method of placing (for information)		N/A	N/A
17. Other requirements by the purchaser of fresh concrete (only if appropriate)		N/A	N/A