READYMIX Huddersfield

MYERS Group

## Readymix Huddersfield

## Environmental, Sustainability & Responsible Sourcing Data & Targets Summary – 2016

The Myers Group is committed to producing the most sustainable products available within each specific sector of its business, whilst working with its supply chain partners to actively develop and introduce responsible sourcing, quality, environment and health & safety management systems, certified standards and directives to enhance the built environment. The Myers Group is committed to continually improve its effectiveness in these areas and has and will continue to set itself meaningful and measurable objectives and targets to achieve this.

The Myers Group recognises that the responsible sourcing of materials provides a holistic approach to managing the social, environmental and economic impacts of a product from the sources of its raw materials, through its manufacture and delivery, and, ideally, through its use, re-use and recycling, until its final disposal.

We will continue to demonstrate our commitment to this through an ethos of supply chain management and product stewardship, together with a commitment to engage with stakeholders that may be affected by the impacts of our products.

The following data has been collated against the Sustainable Construction Forum (SCF) Key Performance Indicators (KPI's) and targets, and is compliant with the requirements of the Building Research Establishment (BRE) Environmental and Sustainability Standard BES 6001 *Framework Standard for the Responsible Sourcing of Construction Products.*

# Readymix Huddersfield Environmental, Sustainability & Responsible Sourcing Annual Data Summary and Targets

| Sustainability Principles | Concrete Industry Performance Indicators | Unit of expression | Required link to Responsible Sourcing BES6001 & BS8902 | Related Gov't Targets - 2008 Sustainable Construction Strategy | RMX 2011 Data | RMX 2012 Data | RMX 2013 Data | RMX 2014 Data | RMX 2015 Data | RMX 2016 Data | Target Set | Quantitative | Qualitative | Agreed MPA 2016 Target or Company Specific Target |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Environmental Management Systems** | **1.1** % of production sites covered by a UKAS certified EMS (such as ISO14001, EMAS and for SMEs, BS8555) | % of production sites (and absolute number compared to total) | **Management systems (section 3.3.2 of BES 6001)** | 25% of products used in construction projects to be from schemes recognised for responsible sourcing (by 2012) | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** | **Y** | **Y** | **N/A** | **Maintain level at 100%** |
| **Waste minimisation** | **1.2** Kg of waste to landfill as a proportion of production output (supplemented by **3. 1a-d**) | kg per tonne and kg per $m^3$ | **Waste Management (section 3.4.4 of BES 6001)** | *By 2012,a 50% reduction of construction, demolition and excavation waste to landfill compared to 2008<br>*20% reduction in construction packaging waste (by 2012)<br>* Construction Waste Commitment: individual organisations commit to waste to landfill targets at company level<br>*Sector resource efficiency plans prepared and implemented by trade associations<br>*Future work in this area includes *"improving take back or exchange opportunities for unwanted and waste materials"* | **0.02 kg/m3 (Inert concrete & slurry now used for restoration purposes – Data Not Included)** | **0.02 kg/m3 (Inert concrete & slurry now used for restoration purposes – Data Not Included)** | **0.02 kg/m3 (Inert concrete & slurry now used for restoration purposes – Data Not Included)** | **40.33 kg/m3 (Figure includes Inert concrete & slurry used for restoration purposes)** | **44.20 kg/m3 (Figure includes Inert concrete & slurry used for restoration purposes)** | **44.10 kg/m3 (Figure includes Inert concrete & slurry used for restoration purposes)** | **Y** | **Y** | **N/A** | **Reduce kg/$m^3$ of waste to landfill by 5% year on year from 2014 onwards** |
| **Emissions (excluding $CO_2$)** | **1.3** Number of convictions for air and water emissions per annum | Number per annum | **Local communities (section 3.4.9 of BES 6001)** | | **0** | **0** | **0** | **0** | **0** | **0** | **Y** | **Y** | **N/A** | **Maintain zero convictions for air and water emissions per annum, ongoing** |
| **Stakeholder Engagement** | **1.4** Stakeholder engagement. *No Indicator – performance to be covered qualitatively* | n/a | **Social Requirements (section 3.4.1 of BES 6001)** | | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** | **No Target** |
| **Quality & Performance** | **1.5** % of production sites covered by a UKAS certified 9001 quality management system | % of production sites (and absolute number compared to total) | **Management systems (section 3.2 of BES 6001)** | Multiple actions for "innovation" linked to the overarching target to "enhance the industry's capacity to innovate and increase the sustainability of both the construction process and it's resultant assets" | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** | **Y** | **Y** | **N/A** | **Maintain level at 100%** |
| **Responsible Sourcing** | **1.6** % of reported production certified to BES 6001 | % of reported production tonnes Certified to BES 6001 | **Management systems (section 3.2 of BES 6001)** | Multiple actions for "innovation" linked to the overarching target to "enhance the industry's capacity to innovate and increase the sustainability of both the construction process and it's resultant assets | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** | **Y** | **Y** | **N/A** | **Maintain level at 100%** |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Energy** | **2.1** Energy used in production as a proportion of production output | kWh per tonne and $m^3$ | **Greenhouse gas Emissions (section 3.4.2 of BES 6001)** | | **6.09 kWh/m3** | **5.73 kWh/m3** | **5.08 kWh/m3** | **5.00 kWh/m3** | **4.25 kWh/m3** | **4.47 kWh/m3** | **Y** | **Y** | **N/A** | **Reduce overall kWh/$m^3$ of energy used in production by 7.5% from 2012 levels by 2020** |
| **$CO_2$ Emissions (Production)** | **2.2a** $CO_2$ emissions as a proportion of production output (electric) | kg $CO_2$ per tonne and kg $CO_2$ per $m^3$ | **Greenhouse Gas Emissions (section 3.4.2 of BES 6001)** | 15% reduction in carbon emissions from construction processes and associated transport compared to 2008 levels. Note: Wider UK Government target is 80% reduction by 2050 based on 1990 levels *Recent carbon budget has target of 34% by 2020 based on 1990 levels* | **3.17 kg CO2/m3** | **2.98 kg CO2/m3** | **2.75 kg CO2/m3** | **2.71 kg CO2/m3** | **2.30 kg CO2/m3** | **1.83 kg CO2/m3** | **Y** | **Y** | **N/A** | **Reduce $CO_2/m^3$ emissions from production by 15% from 2012 levels by 2020 - (Linked to 2.3d)** |
| | **2.2b** $CO_2$ emissions as a proportion of production output (gas oil) | kg $CO_2$ per $m^3$ | **Greenhouse Gas Emissions (section 3.4.2 of BES 6001)** | 15% reduction in carbon emissions from construction processes and associated transport compared to 2008 levels. Note: Wider UK Government target is 80% reduction by 2050 based on 1990 levels *Recent carbon budget has target of 34% by 2020 based on 1990 levels* | **No Data** | **No Data** | **No Data** | **1.2 kg CO2/m3** | **1.0 kg CO2/m3** | **0.90 kg CO2/m3** | **Y** | **Y** | **N/A** | **Reduce $CO_2/m^3$ emissions from production by 2% year on year** |
| **$CO_2$ Emissions (Transport)** | **2.3a** Average delivery distance travelled per tonne/$m^3$ (from factory gate to customer) | km per tonne (and km per $m^3$) | **Transport Impacts (section 3.4.7 of BES 6001)** | 15% reduction in carbon emissions from construction processes and associated transport compared to 2008 levels. Note: Wider UK Government target is 80% reduction by 2050 based on 1990 levels Recent carbon budget has target of 34% by 2020 based on 1990 levels | **5.34 km/m3 (return journey) within an average 4.9 m3 delivery)** | **4.91 km/m3 (return journey) within an average 5.1 m3 delivery)** | **2.38 km/m3 (return journey) within an average 5.5 m3 delivery)** | **2.29 km/m3 (return journey) within an average 5.2 m3 delivery)** | **2.13 km/m3 (return journey) within an average 5.5 m3 delivery)** | **4.04 km/m3 (return journey) within an average 5.4 m3 delivery)** | **Linked to 2.3d** | **N/A** | **N/A** | **Linked to 2.3d** |
| | **2.3b** Tonnes or $m^3$ moved split by three modes: road, rail, inland barge | Tonnes moved by each mode (and $m^3$ moved by each mode) | **Transport Impacts (section 3.4.7 of BES 6001)** | | **100% road 58,066 m3** | **100% road 47,658 m3** | **100% road 70,165m3** | **100% road 68,573m3** | **100% road 78,398 m3** | **100% road 73,962 m3** | **Linked to 2.3d** | **N/A** | **N/A** | **Linked to 2.3d** |
| | **2.3c** Average load for each mode | Tonnes per load (and $m^3$ per load) by mode | **Transport Impacts (section 3.4.7 of BES 6001)** | | **4.9 m3** | **5.1 m3** | **5.5 m3** | **5.2 m3** | **5.5 m3** | **5.4 m3** | **Linked to 2.3d** | **N/A** | **N/A** | **Linked to 2.3d** |
| | **2.3d** $CO_2$ emissions as a proportion of production output (from factory gate to customer) | kg $CO_2$per tonne (and kg $CO_2$ per $m^3$) per mode | **Transport Impacts (section 3.4.7 of BES 6001)** | | **8.12 kgCO2/m3 (return journey) or 1.64 kgCO2/m3 within an average 4.9 m3 delivery)** | **6.90 kgCO2/m3 (return journey) or 1.35 kgCO2/m3 within an average 5.1 m3 delivery)** | **6.38 kgCO2/m3 (return journey) or 1.16 kgCO2/m3 within an average 5.5 m3 delivery)** | **5.92 kgCO2/m3 (return journey) or 1.13 kgCO2/m3 within an average 5.2 m3 delivery)** | **5.71 kgCO2/m3 (return journey) or 1.04 kgCO2/m3 within an average 5.5 m3 delivery)** | **6.28 kgCO2/m3 (return journey) or 1.16 kgCO2/m3 within an average 5.4 m3 delivery)** | **Y** | **Y** | **N/A** | **Reduce $CO_2/m^3$ emissions from transport by 5% from 2012 levels by 2020 - (Linked to 2.2)** |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Materials Efficiency** | **3.1b** % of additional cementitious materials (GGBS, fly ash, etc) as a proportion of total cementitious materials used | % | **Resource Use & Waste Management (sections 3.4.3 & 3.4.4 of BES 6001)** | *By 2012, a 50% reduction of construction, demolition and excavation waste to landfill compared to 2008<br>*20% reduction in construction packaging waste (by 2012)<br>* Construction Waste Commitment: individual organisations commit to waste to landfill targets at company level<br>*Sector resource efficiency plans prepared and implemented by trade associations<br>*Future work in this area includes "improving take back or exchange opportunities for unwanted and waste materials" | **29.9%** | **38.0%** | **41.7%** | **42.3%** | **41.6%** | **40.2%** | **Y** | **Y** | **N/A** | **Increase proportion of cement additions to 35% by 2020 and maintain this optimum level** |
| | **3.1c** Recycled/ secondary aggregates as a proportion of total aggregates used | % | **Resource Use & Waste Management (sections 3.4.3 & 3.4.4 of BES 6001)** | | **0.52 %** | **0.27 %** | **0.21%** | **0.20%** | **0.14%** | **0.29%** | **Y** | **N/A** | **Y** | **Increase % use of Recycled/Secondary aggregate as a proportion of total aggregate use to optimal level based on independent report (due 2010** |
| **Water** | **3.2a** Mains water use as a proportion of production output | Litres per tonne and litres per $m^3$ | **Water Extraction (section 3.4.5 of BES 6001)** | Water usage in the manufacturing and construction phase reduced by 20% compared to 2008 usage (by 2012) | **113.2 litres/m3** | **135.71 litres/m3** | **85.85 litres/m3** | **85.04 litres/m3** | **193.61 litres/m3** | **127.62 litres/m3** | **Y** | **Y** | **N/A** | **Reduce overall water consumption to optimum level of 130 litres/$m^3$ by 2020** |
| | **3.2b** Controlled groundwater use as a proportion of production output | Litres per tonne and litres per $m^3$ | **Water Extraction (section 3.4.5 of BES 6001)** | | **71.7 litres/m3** | **77.7 litres/m3** | **51.6 litres/m3** | **51.0 litres/m3** | **82.76 litres/m3** | **77.15 litres/m3** | **Y** | **Y** | **N/A** | **Maintain 2014 levels, linked to 3.2a** |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Site Stewardship** | **3.3** % of relevant production sites that have site specific action plans | % of relevant production sites (and absolute number compared to total) | **Additional to BES 6001** | | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** | **Y** | **N/A** | **Y** | **Maintain level at 100%** |
| **Health & Safety** | **4.1** Lost time injuries for 'direct employees' per 1 million hours worked | Number per 1 million hours worked and absolute number per annum | **Management systems (section 3.3.3 of BES 6001)** | *Reduce the incidence rate of fatal and major injury accidents by 10% year on year from 2000 levels (by 2010)<br>*Reduce the incidence rate of cases of work-related ill health by 20% from 2000 levels (by 2010)<br>*10% reduction year on year in the incidence rate of fatal and major injuries from 2010 levels (by 2012)<br>*50% increase in projects offering a route to occupational health support from 2008 level (by 2012)<br>*30% increase from 2007 level of micro-SMEs and SMEs taking up H&S training and education at an organisational level | **31.10 per 1 million hours worked (2 actual)** | **15.13 per 1 million hours worked (1 actual)** | **14.36 per 1 million hours worked (1 actual)** | **28.01 per 1 million hours worked (2 actual)** | **15.26 per 1 million hours worked (1 actual)** | **O LTI's** | **Y** | **Y** | **N/A** | **Overarching Zero harm expectation, and interim 5 year reduction in LTIFR by December 2020** |
| **Employment & Skills** | **4.2a** % of employees covered by UKAS certified ISO9001/ ISO 14001/ BES 6001/ OHSAS 18001 systems (Training & Competence sections) | % of employees covered by UKAS 9001, 14001, 6001 or 18001 systems | **Employment & Skills (section 3.4.8 of BES 6001)** | *Development of sector specific Skills Pledge and Action Plan for driving a training culture in the building products sector (Proskills - Aug 2008)<br>*Net increase of 230,000 qualified people recruited and trained in the industry compared with 2006 (by 2010) - increasing to 260,000 by 2012<br>*To achieve 13,500 apprenticeship completions in England, Wales and Scotland by 2010 and to increase this to 18,700 a year by 2012<br>* Promotion of the value of CPD, and facilitating access to suitable developmental training on sustainability aspects | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** | **Y** | **Y** | **N/A** | **Maintain % of relevant employees covered by UKAS certified ISO9001, ISO14001, BES 6001 or OHSAS18001 (Training & competence sections) systems at 100%** |
| | **4.2b** % of employees covered by environmental, responsible sourcing and H&S management systems following the principles of BS EN 14001, BES 6001 and OHSAS 18001 | % of employees covered by BS EN ISO 14001, BES 6001 or OHSAS 18001 systems | **Employment & Skills (section 3.4.8 of BES 6001)** | As above, but additionally to operate a 'HSE compliant' fully competent workforce by 2010 | **100%** | **100%** | **100%** | **100%** | **17.05 hrs** | **6.12 hrs** | **Y** | **Y** | **N/A** | **Target of 10 hours per person** |
| **Local Community** | **4.3** % of relevant production sites with community liaison activities (supplemented by **1.3**) | % of relevant production sites (and absolute number compared to total) | **Local Communities (section 3.4.9 of BES 6001)** | | **100%** | **100%** | **100%** | **100%** | **3 Community Projects** | **5 Community Projects** | **Y** | **Y** | **N/A** | **Target of 3 community projects each year** |

## Additional constituent material transportation analysis:

| Sustainability Principles | Constituent material transportation analysis | Unit of expression | Required link to Responsible Sourcing BES6001 & BS8902 | Related Gov't Targets - 2008 Sustainable Construction Strategy | RMX 2011 Data | RMX 2012 Data | RMX 2013 Data | RMX 2014 Data | RMX 2015 Data | RMX 2015 Data |
|---|---|---|---|---|---|---|---|---|---|---|
| **$CO_2$ Emissions (Transport)** | Delivery distance travelled per tonne of traceable constituent material relative to proportionate usage (from source to Readymix Huddersfield) | km travelled per constituent tonne supplied | **Transport Impacts (section 3.4.7 of BES 6001)** | 15% reduction in carbon emissions from construction processes and associated transport compared to 2008 levels.<br><br>Note: Wider UK Government target is 80% reduction by 2050 based on 1990 levels<br><br>Recent carbon budget has target of 34% by 2020 based on 1990 levels | **3.49 km/constituent tonne supplied by road 0.006 km/constituent tonne supplied by rail** | **3.88 km/constituent tonne supplied** | **3.10 km/constituent tonne supplied** | **3.16 km/constituent tonne supplied** | **1.65 km/constituent tonne supplied** | **1.63 km/constituent tonne supplied** |
| | Method of transportation split by three modes: road, rail, inland barge | % moved by each mode | **Transport Impacts (section 3.4.7 of BES 6001)** | | **92.3% road 7.7% rail** | **100% road** | **100% road** | **100% road** | **100% road** | **100% road** |
| | Average load for each mode | Tonnes per load by mode | **Transport Impacts (section 3.4.7 of BES 6001)** | | **29 tonnes Road (Increased load size efficiency to reduce carbon emissions) 1,848 tonnes Rail** | **29 tonnes** | **29 tonnes** | **29 tonnes** | **29 tonnes** | **29 tonnes** |