



QUESTIONNAIRE

Technical specifications for the instrumentation of a molding sand preparation
by Humidity control system at the Batch Mixer.

Company name:

Adress:

Factory:

Phone: Fax No:

Contact person / Direct dial:

1. FIRST SAND SPECIFICATIONS

Synthetic sand: ☐ Yes ☐ No

Natural sand: ☐ Yes ☐ No

Dosage per batch: kg

Aggregates in kg

Betonite: kg

Carbon: kg

New sand: kg

additional surcharges: kg

Used sand residual moisture: of to % H2O

Used sand temperature: of to °C

Finish sand: of to % H2O

2. MIXER SITUATION (if possible drawing of sand preparation enclosed)

Type/model of the mixer/s:

Manufacturer:

Batch size:

Mxing cycle in seconds:

Dosage used sand

- A. volumetrically via conveyor belt: ☐ Yes ☐ No
Belt speed m/sec.:
Sand height in cm:
- B. volumetrically with hopper: ☐ Yes ☐ No
- C. gravimetrically by hopper scale: ☐ Yes ☐ No
- D. gravimetrically with belt scale: ☐ Yes ☐ No

3. MOISTURE MEASUREMENT

Moisture Measurement on the conveyor belt ☐ Yes ☐ No

Moisture Measurement in the container or in the hopper scale ☐ Yes ☐ No

Dimensions of hopper:

Height of the conical heap with the highest occurring sand moisture
(eg robbery sand) at usual batch weight

Height of the weighing container

4. TEMPERATURE MEASUREMENT

- ☐ Bands, 1 temperature sensor, only when tape does not run empty
- ☐ Tank installation, 2 temperature sensors, compared to vertically offset

5. WATER METERING

Water pressure: bar

Previous average, metered amount of water in liters per batch liter

If a spirit level to be installed to meter water and dirt can? ☐ Yes ☐ No

Connection to an existing weighing system?

6. RECIPE MANAGEMENT

How many recipes are to be managed? recipes

7. IF AN AUTOMATIC SAND TESTING SYSTEM TO BE INTEGRATED?

☐ Yes ☐ No

Possible variants::

- A. SPC II = mounting and sampling on a belt transfer station (recommended execution) ☐
- B. SPC III = mounting and sampling on the mixer ☐
- C. SPC IV = mounting and sampling on a belt conveyor ☐

Possible measurements:

Compactibility: ☐

Options:

Compression strength ☐ Yes ☐ No

Shear strength ☐ Yes ☐ No

Moisture measurement ☐ Yes ☐ No

Temperature measurement ☐ Yes ☐ No

(if moisture measurement is also selected, temperature measurement must be selected.)

8. IPC WITH DATA ANALYSIS (DATA MANAGEMENT, ARCHIVING, ANALYSIS)

Data Collection and Archiving ☐ Yes ☐ No

Presentation and Appraisal ☐ Yes ☐ No

9. OTHER CUSTOMER REQUIREMENTS FOR THE SYSTEM

10. WHAT IMPROVEMENTS OVER THE CURRENT SITUATION, ONE SHOULD USE THE HUMIDITY CONTROL SYSTEM WILL BE SCORED?

- Furthermore, we also provide humidity control systems for continuous mixers, refrigeration units. Please give us technical specifications / drawings for a quotation.
- Also level detector for your silos and bins are part of our range of services. Fill in your specification.
- We also modernize your mixer control system based on Siemens S 7/Serie. Please give us your specifications for a quote.