

#### **Client logo**

#### Data sheet Screen

Project name
Project no.
Tag no.
Tag description

|                                  | Originator     |            | Date          | Checked by       | Date          |
|----------------------------------|----------------|------------|---------------|------------------|---------------|
| Process                          |                |            |               |                  |               |
| Mechanical                       |                |            |               |                  |               |
|                                  |                |            |               |                  |               |
| Electrical                       | A              |            | Data          | Destantianal man |               |
| Ī                                | Approved b     | <u>у</u>   | Date          | Professional reg | istration no. |
| Client (if applicable)           |                |            |               |                  |               |
| Lead engineer                    |                |            |               |                  |               |
| General information              |                |            | I             |                  |               |
| Corrosion protection             |                |            | Refere        | nce drawing no.  |               |
| Engineering specifications       | S              |            | Service       | -                |               |
| Installation                     |                |            |               |                  |               |
| Remarks                          |                |            |               |                  |               |
|                                  |                |            |               |                  |               |
|                                  |                |            |               |                  |               |
| Site                             |                |            |               |                  |               |
| Altitude(AMSL)                   |                | m          | Location      |                  |               |
| Ambient temperature max          | rimum          | °C         | Rainfall      |                  | mm/y          |
| Ambient temperature min          |                | °C         | Wind velocity | 1                | km/h          |
| Barometric pressure              |                | kPa        | Humidity      |                  | %             |
| Underground atmospheric          | classification |            | Class         | Division         |               |
| Process                          |                |            |               |                  |               |
| Feed material data               |                |            |               |                  |               |
| General description of ap        | plication      |            |               |                  |               |
| Matarial baselles                |                |            | A 1           |                  | -l            |
| Material handled                 |                | 4/1-       | Angle of repo |                  | degree        |
| Capacity minimum                 |                | t/h<br>t/h | Angle of surc |                  | degree<br>%   |
| Capacity normal Capacity maximum |                | t/h        |               | ys per annum     | %<br>days     |
| Temperature                      |                | °C         | Operating da  |                  | hours         |
| Particle size maximum            |                | mm         | Feed from sta |                  | Hours         |
| Top deck cut size                |                | mm         | Drop height   | ano neau         | mm            |
| Bottom deck cut size             |                | mm         | Feed type     | continuous/inte  |               |
| No. of screen decks              |                |            | Screening     |                  | wet/dry       |
| Material characteristics         |                |            | J             |                  | *             |
| Abrasive                         | yes/no         |            | Erosive       | У                | res/no        |
| Combustible                      | yes/no         |            | Flowability   | free/poor/s      | ticky         |
| Corrosive                        | yes/no         |            | Friable       | у                | res/no        |
| Dusty                            | yes/no         |            | Hygroscopic   | У                | res/no        |
| Explosive                        | ves/no         |            | Toxic         | \                | es/no         |



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| Feed stream particle size distributi | on data |         |                   |              |
|--------------------------------------|---------|---------|-------------------|--------------|
| Component Si                         | ze      |         | Cumulative % p    | assing       |
| Size 1                               | mm      |         |                   | %            |
| Size 2                               | mm      |         |                   | %            |
| Size 3                               | mm      |         |                   | %            |
| Size 4                               | mm      |         |                   | %            |
| Size 5                               | mm      |         |                   | %            |
| Size 6                               | mm      |         |                   | %            |
| Size 7                               | mm      |         |                   | %            |
| Size 8                               | mm      |         |                   | %            |
| Size 9                               | mm      |         |                   | %            |
| Size 10                              | mm      |         |                   | %            |
| Size 11                              | mm      |         |                   | %            |
| Size 12                              | mm      |         |                   | %            |
| Distribution d <sub>50</sub>         | mm      | Maximum | agglomerated size | mm           |
| Maximum size                         | mm      |         |                   |              |
| Product material data                |         | •       |                   |              |
|                                      | Ove     | ersize  | Undersize         | Intermediate |
| Size minimum                         |         | mm      | mm                | mm           |
| Size maximum                         |         | mm      | mm                | mm           |
| Discharge rate normal                |         | t/h     | t/h               | t/h          |
| Discharge rate maximum               |         | t/h     | t/h               | t/h          |
| Discharge rate minimum               |         | t/h     | t/h               | t/h          |
| Screening efficiency                 |         | %       | %                 | %            |
| Product stream particle size distrib |         |         |                   |              |
| Component Si                         | ze      |         | Cumulative % p    |              |
| Size 1                               | mm      |         |                   | %            |
| Size 2                               | mm      |         |                   | %            |
| Size 3                               | mm      |         |                   | %            |
| Size 4                               | mm      |         |                   | %            |
| Size 5                               | mm      |         |                   | %            |
| Size 6                               | mm      |         |                   | %            |
| Size 7                               | mm      |         |                   | %            |
| Size 8                               | mm      |         |                   | %            |
| Size 9                               | mm      |         |                   | %            |
| Size 10                              | mm      |         |                   | %            |
| Size 11                              | mm      |         |                   | %            |
| Size 12                              | mm      |         |                   | %            |
| Distribution d <sub>50</sub>         | mm      | Maximum | agglomerated size | mm           |
| Maximum size                         | mm      |         |                   |              |



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Document no. Revision no. P&ID no. Status

#### Mechanical

| Design data                      |        |          |              |             |        |            |   |
|----------------------------------|--------|----------|--------------|-------------|--------|------------|---|
| Design capacity                  |        | t/h      | Screen over  | rall length |        |            | mm                                      |
| Capacity minimum                 |        | t/h      | Screen over  | •           |        |            | mm                                      |
| Maximum head above feed          |        | m        | Screen over  |             |        |            | mm                                      |
| Inclination maximum              |        | degree   | Trough leng  |             |        |            | mm                                      |
| Inclination minimum              |        | degree   | Trough widt  |             |        |            | mm                                      |
| Type of deck motion              |        | 3 - 3    | Trough heig  |             |        |            | mm                                      |
| Supports front                   | yes/no | 0        | Supports re  |             |        | yes/nc     | )                                       |
| Screen panels aperture           |        | mm       | Screen water |             | e rate |            | m <sup>3</sup> /hm <sup>2</sup>         |
| Screen panels open area          |        | %        | Screen med   | _           |        |            | m <sup>3</sup> /hm <sup>2</sup>         |
| Screen blinding                  |        | %        | Screen was   |             |        |            | m <sup>3</sup> /h                       |
| Sound intensity actual @ 1m      |        | db       | Coroon was   | ii watoi    |        |            | ,                                       |
| Support loadings                 |        | ab       |              |             |        |            |   |
|                                  |        | Static   | Dynami       | ic normal   | Dynam  | ic maximum |   |
|                                  | Front  | Rear     |              | Rear        | Front  | Rear       |   |
| Vertical                         |        |          |              |             |        |            |   |
| Horizontal                       |        |          |              |             |        |            | kN                                      |
| Information to be supplied by ve | ndor   | <u> </u> | •            |             |        | 1          | 1                                       |
| Screen requirements              |        |          |              |             |        |            |   |
|                                  |        | Тор      | Intern       | nediate     | L      | _ower      |   |
| Total area                       |        |          |              |             |        |            | m <sup>2</sup>                          |
| Bland feed length                |        |          |              |             |        |            | m                                       |
| Screening length                 |        |          |              |             |        |            | m                                       |
| Bland discharge length           |        |          |              |             |        |            | m                                       |
| Total screen area                |        |          |              |             |        |            | $m^2$                                   |
| Free screen area                 |        |          |              |             |        |            | $m^2$                                   |
| Aperture size                    |        |          |              |             |        |            | mm                                      |
| Perforation shape                |        |          |              |             |        |            |   |
| Deck section area                |        |          |              |             |        |            | $m^2$                                   |
| Deck section width               |        |          |              |             |        |            | m                                       |
| Deck section fasten              |        |          |              |             |        |            |   |
| Inclination of deck              |        |          |              |             |        |            | degree                                  |
| Number of spray bars required    |        |          |              |             |        |            | Ū                                       |
| Spray water flow                 |        |          |              |             |        |            | m³/h                                    |
| Spray water pressure             |        |          |              |             |        |            | kPa(g)                                  |
| Materials of construction        |        |          |              |             |        |            | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
|                                  |        | Ma       | aterial      |             |        | Thickne    | ess                                     |
| Screening surface                |        |          |              |             |        |            | mm                                      |
| Trough base                      |        |          |              |             |        |            | mm                                      |
| Trough frame                     |        |          |              |             |        |            | mm                                      |
| Trough liner                     |        |          |              |             |        |            | mm                                      |
| Trough sides                     |        |          |              |             |        |            | mm                                      |



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| Drive information                            |         |                                  |                   |
|--|---------|----------------------------------|-------------------|
| Manufacturer                                 |         | Full load torque at start        | N                 |
| Туре   |         | Full load torque running         | N                 |
| Vibrating frequency                          | Hz      | Amplitude                        | mm                |
| Electrical                                   |         |                                  |                   |
| System information                           |         |                                  |                   |
| Supply voltage                               | V       | Type of system earthing          |                   |
| Voltage variations                           | V       | Area classification (SABS 0108)  |                   |
| Maximum voltage unbalance                    | %       | Hazardous gas/dust               |                   |
| Total voltage harmonic content               | %       | Cable size                       | $mm^2$            |
| Supply frequency                             | Hz      | Cable type                       |                   |
| Temperature classification of gas/dust       |         |                                  |                   |
| Data to be supplied by vendor                |         |                                  |                   |
| Manufacturer                                 |         | Equivalent circuit               |                   |
| Frame size                                   |         | Winding connection               |                   |
| Year of manufacture                          |         | Insulation class                 |                   |
| Serial number                                |         | Insulation type                  |                   |
| Rating                                       | kW      | Method of cooling (IC Code)      |                   |
| Full load current                            | Α       | Method of mounting (IM Code)     |                   |
| Class of rating (IEC 60034-1 class 4 2)      |         | Lubricant type/grade             |                   |
| Enclosure classification IP code             |         | Type of explosion protection     |                   |
| Power factor at 100% load                    |         | Efficiency at 100% load          | %                 |
| Power factor at 75% load                     |         | Efficiency at 75% load           | %                 |
| Power factor at 50% load                     | •       | Efficiency at 50% load           | %                 |
| Temperature rise                             | °C      | Break away torque                | Nm                |
| Locked rotor current                         | Α       | Pull out torque                  | Nm                |
| Locked rotor power factor                    |         | Pull up torque                   | Nm                |
| Locked rotor withstand time cold             | S       | Full load torque                 | Nm                |
| Locked rotor withstand time warm             | S       | Moment of inertia of load (MIL)  | kg/m <sup>2</sup> |
| Allowable no. of starts per hour cold        |         | Moment of inertia of motor rotor | kg/m²             |
| Allowable no. of starts per hour warm        |         | MIL referred to motor shaft      | kg/m²             |
| Maximum thrust continuous (down)             |         | Temperature rating               |                   |
| Maximum thrust momentary (down)              |         | Sound intensity                  | db                |
| Type of bearing non-drive end                |         | Type of bearing drive end        |                   |
| Direction of rotation viewed from non-drive  |         |                                  |                   |
| Terminal box position viewed from non-dr     |         |                                  |                   |
| Speed vs. torque curve at full volts require |         |                                  |                   |
| Speed vs. torque curve at 85% full volts re  |         |                                  |                   |
| Speed vs. current curve at full volts requir |         |                                  |                   |
| Speed vs. current curve at 85% full volts i  | •       |                                  |                   |
| Speed vs. power curve at full volts require  |         |                                  |                   |
| Speed vs. power curve at 85% full volts re   | equired |                                  |                   |



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| Mechanical                         |     | Electrical               |                |
|------------------------------------|-----|--------------------------|----------------|
| Motion amplitude                   |     | Shop inspection required |                |
| Shipping & installation            |     |                          |                |
| Information to be supplied by vend | dor |                          |                |
| Heaviest lift                      | kg  | Overall height           | mm             |
| Heaviest maintenance lift          | kg  | Overall length           | mm             |
| Weight driver                      | kg  | Overall width            | mm             |
| Maximum foundation loading         | kg  | Total shipping weight    | kg             |
| Net weight                         | kg  | Total shipping volume    | m <sup>3</sup> |
| Operating weight                   | kg  |                          |                |
| Underground dimensions             |     |                          |                |
| Underground applicable             |     | Cage length              | mm             |
| Headroom available                 | mm  | Cage width               | mm             |