



Pavement Conformance Report (Advanced)

Command Description

The Pavement Conformance Report (Advanced) command is a pavement conformance reporting tool that supports measuring vertical, perpendicular, cross-fall, pavement thickness and edge data. Various options for summary display and an option to visualise output in plan-view prior to creating report.



At the top of the command pane there is the ability to **load** and **save** a tolerance setting file. Once you have populated the command with the appropriate tolerances and setting for a report you can save it in a file that can be reloaded in the future.

Vertical tab

As-built points	Select As-built points to use in the report.
Design Mode	Choose the Mode to use - Surface or Strings to conform the as-built points against.
Surface	Choose a surface from the list.
Strings	This will create a surface projected between the left and right strings. Control - Select a line to use to calculate perpendicular to, between the left and right string. Left – Select the left string to use for levels Right – Select the right string to use for levels
Measure perpendicular	Check if you want the points to be tested perpendicular to the Design.
Design offset	Enter the level distance from the design. This is vertical or perpendicular depending on the previous setting.
Alignment	Select the control alignment to report chainage and offset. This is optional but must be used for computing XFall and Edge conformance report types. Option to change the selection highlight colour.
Chainage grouping	Enter the distance to use to group points on the report.
Restrict chainage <i>Start chainage</i> <i>End chainage</i>	Check if you want chainages to be restricted between the Start Chainage and End Chainage you specify.
Tolerances <i>Upper</i> <i>Lower</i>	Enter the tolerance values to check and report against. Note that the tolerance direction will be applied the same as the measure mode. ie, if you select perpendicular then the tolerances are also applied perpendicularly.
Include ID's	Check if you want as-built point IDs included in the report
Include Codes	Check if you want as-built point Codes included in the report
Include easting/northing	Check if you want to report the easting and northing of the as-built point.
Show non-conformance errors	Check if you want errors to be included in the body of the report.

XFall tab

Include XFall	Check if you want to include cross-fall checking in the report.
XFall tolerance	Enter the cross-fall tolerance to report against from design to as-built.
Maximum chainage delta	Enter the maximum distance within which points will be checked (avoids irrelevant checks).
Minimum offset delta	Enter the minimum offset distance between points to be checked for Xfall.
Direction	Choose the direction you want the cross fall to be reported relative to the alignment string. Relative to Control = Normal use for Road reporting. Reported left and right of alignment. Left to Right = Report all cross falls left to right with chainage Right to Left = Report all cross falls right to left with chainage

Thickness tab

Include Thickness	Check if you want thickness checking on the road.
Bottom surface	Select a surface.
Minimum thickness Maximum thickness	Enter the tolerances to check against.
Show non-conformance errors	Check if you want errors to be included in the body of the report.

Edges tab

Include edge report	Check if you want edge checking on the road.
Left alignment	Select a left alignment string. Option to change the selection highlight colour.
Left extent Right extent	Enter the extents you want to use to search for the points on either side of the left alignment string.
Left tolerance Right tolerance	Enter the tolerances to check against for the left alignment.
Right alignment	Select a right alignment string. Option to change the selection highlight colour.
Left extent Right extent	Enter the extents you want to use to search for the points on either side of the right alignment string.
Left tolerance Right tolerance	Enter the tolerances to check against for the right alignment.
Check vertical on edge point	Check if you want edge points to also report vertically.

Summaries tab

Select header summaries to include	Check the summary fields you want to include in the top of the report.
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Details tab

Title	Enter a title for the report (for example, the project name).
Custom image file	Select a "png" or "bmp" image file to be added to the top right corner of the report. E.g., company Logo or project image. This only appears if you have a Title filled out.
Description	Enter a description for the report.
Reference number	Enter a survey job reference number.
Author	Enter the name of the report's author.
Custom Header	Enter a user defined heading
Custom Text	Enter a user defined text to go beside the Custom header

Formatting tab

Colors	<p>Choose the colours to be used in the Excel Report.</p> <p><i>Out of tolerance</i></p> <p><i>Missing data</i></p> <p><i>Summary background</i></p> <p><i>Title background</i></p> <p>Reset to Defaults</p>
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Visualization tab

Create visualization layers	Check if you want conformance information to be displayed on layers in TBC.
Layer prefix	Enter a prefix to add to layer names.
Text Height	Select the height of the text to be displayed on screen.
Text Style	Select the text style for the text displayed on screen.
Gap	This is the distance in metres that the insertion point of the text will be right of the node it is created for.
Clear visualization layers	Check if you want the layers to be cleared before adding new data.
Include data prefix	Check if you want to include the "Data" type as a prefix to the text on screen.
Data	<p>Check the boxes for the data you need to see on screen.</p> <p>Survey – As-built survey levels of point.</p> <p>Design – Calculated design levels for point.</p> <p>Conformance – Conformance delta.</p> <p>Thickness – Thickness conformance value.</p> <p>XFall – Xfall value from preceding point.</p>