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**ESCUELA PROFESIONAL DE INGENIERÍA CIVIL**

Evaluación del pavimento rígido aplicando Pavement Condition Index  
en el Jr. Diego Ferrer, progresiva 0+000 hasta 0+280.8 ml.  
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**TESIS PARA OBTENER EL TÍTULO PROFESIONAL DE:**

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## **Dedicatoria**

A Dios, mis padres Alejandrino y Carmen,  
por ser el pilar fundamental de mi  
formación.

A mi esposa Yovana y mis hijas Adriana y  
Alessandra por ser mi más grande  
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## Resumen

El presente trabajo de investigación se ha elaborado con la evaluación del método PAVEMENT CONDITION INDEX (PCI) para una longitud de 280.8 ml. del pavimento rígido en el Jr. Diego Ferrer en la ciudad de Huaraz, se propuso el objetivo general evaluar el pavimento rígido aplicando el método PCI en el Jr. Diego Ferrer, Huaraz, Ancash, así mismo se pretende alcanzar cumpliendo los siguientes objetivos específicos; determinar los diferentes tipos de fallas existentes en las cuadras del Jr. Diego Ferrer, Huaraz, realizar una evaluación superficial de las fallas determinadas aplicando la metodología PCI para proponer alternativas de solución encontradas mediante el método PCI. La Metodología utilizada en la evaluación del pavimento fue enfoque cuantitativo, de tipo aplicada y diseño no experimental transversal, en la evaluación se obtuvieron 07 unidades analizadas correspondientes a 05 unidades de 22 losas cada una y 02 unidades de 23 losas cada una, las fallas encontradas son: grietas de esquina con 56%, sello de junta con 59%, desnivel carril / Berma con 18%, grieta lineal con 67%, parcheo grande con 77%, parcheo pequeño con 28% y pulimento de agregados con 46%. Concluyendo que aplicando el método de evaluación del pavimento rígido aplicando el PCI en el Jr. Diego Ferrer de la progresiva 0+000 hasta 0+280.8 ml., Huaraz, Ancash, se ha logrado obtener como resultado que el promedio de las siete unidades de análisis se encuentra en un estado MALO, por lo tanto, se plantea la alternativa de mantenimiento y reparación de las patologías encontradas según la norma ASTM 6433, con la metodología PCI.

**Palabras clave:** Pavimento, Pavement Condition Index (PCI), Evaluación

## **Abstract**

The present research work has been elaborated with the evaluation of the PAVEMENT CONDITION INDEX (PCI) method for a length of 280.8 ml. of the rigid pavement in Jr. Diego Ferrer in the city of Huaraz, the general objective was proposed to evaluate the rigid pavement applying the PCI method in Jr. Diego Ferrer, Huaraz, Ancash, likewise it is intended to achieve the following specific objectives; to determine the different types of existing failures in the blocks of Jr. Diego Ferrer, Huaraz, to perform a superficial evaluation of the determined failures applying the PCI methodology in order to propose solution alternatives found by means of the PCI method. The methodology used in the evaluation of the pavement was quantitative approach, applied type and transversal non-experimental design, in the evaluation were obtained 07 analyzed units corresponding to 05 units of 22 slabs each and 02 units of 23 slabs each, the faults found are: corner cracks with 56%, joint seal with 59%, unevenness lane / Berma with 18%, linear crack with 67%, large patch with 77%, small patch with 28% and aggregate polishing with 46%. Concluding that applying the method of evaluation of the rigid pavement by applying the PCI in Jr. Diego Ferrer from the progressive 0+000 to 0+280.8 ml, Huaraz, Ancash, it has been obtained as a result that the average of the seven units of analysis is in a BAD state, therefore, the alternative of maintenance and repair of the pathologies found according to the ASTM 6433 standard, with the PCI methodology is proposed.

**Keywords:** Pavement, Pavement Condition Index (PCI), Pavement Evaluation.

## I. INTRODUCCIÓN

A nivel internacional el medio de transporte más utilizado es el sistema vial. El más extenso es el sistema de carreteras y desde mediados del siglo XX se empezó a pavimentar. El Perú no es ajeno a este avance tecnológico, se ha construido la red vial, el Ministerio de Transportes y Comunicaciones (MTC) es el ente rector en este sector, que los clasifica por tipo de carreteras, también clasifica a los pavimentos en pavimentos flexibles, rígidos y semirrígidos.

Una herramienta de evaluación que considere las características de las carreteras que contribuyen al deterioro del pavimento y que proporcione una técnica simple de series de registros puede ayudar a los administradores de pavimentos a decidir las situaciones del pavimento y la prioridad de preservación con mayor rapidez, confiable y mucho menos costoso. Por lo tanto, el presente busca ambiciones para desarrollar un índice de circunstancias que evalúe las situaciones superficiales de aceras urbanas dobladas de una manera fácil, a través del análisis de las dificultades y características de las carreteras (Salviatto y Barbosa, 2021).

La organización panamericana de la salud (OPS). (2018) y la organización mundial de la salud (OMS) en un informe del año 2018, describe los fallecimientos causados por accidentes de tránsito que vienen incrementándose, según data es de 1.35 millones de fallecimientos. Siendo las lesiones la principal causa del fallecimiento de personas de 05 a 29 años, que representan a niños, adolescentes y jóvenes. Esta situación es un llamado urgente a los gobernantes, considerar como tema primordial dar medidas de seguridad vial, el informe también menciona que en 48 países con la adopción de medidas de seguridad vial contribuyeron a reducir los fallecimientos causados por accidentes de tránsito.

En América del Sur, las infraestructuras viales de transporte han sido descuidados, resultando un déficit considerable entre las expectativas con las necesidades de la población y los niveles de servicios que brindan las infraestructuras viales, para ello es necesario dotar a las redes viales con mayor cobertura y calidad, para que permita el mejoramiento del desarrollo sostenible y

de la calidad de vida de la población, ello será posible con la incorporación de prácticas modernas en la gestión de los gobiernos. (Flintsch Gerardo, 2019).

(Celi, 2018), comenta que el incremento de la población a nivel mundial y la expansión de las zonas urbanas, incrementa desmesuradamente el parque automotor por la necesidad de más medios de movilidad, por lo que es necesario un constante rediseño del sistema de gestión del transporte.

En la actualidad, las técnicas fotogramétricas y procesamiento de fotografías aéreas permiten realizar mediciones en el sitio web, con procesos rápidos de información y valor ocasional. Según, un método de inspección promedio se puede dividir en los rangos de preprocesamiento de fotografías, segmentación y categoría. El preprocesamiento es utilizado para el mejoramiento y la obtención de la alta calidad de la foto de entrada para facilitar la evaluación y la interpretación en los siguientes rangos. La segmentación se utiliza, para descubrir los contornos de un objeto o imagen y los límites entre el objeto y la sucesión de la fotografía. El objetivo principal del tipo es determinar la clase a la que pertenece cada conjunto de características (Tello et al., 2021).

El Perú es un país megadiverso y rico en recursos naturales, por lo que el auge financiero se refleja en el crecimiento de los proyectos públicos y privados de una manera cada vez mayor. Este crecimiento económico se refleja en las cifras que dice el Banco Mundial, donde el año 2017 el sistema económico peruano se multiplicó por 4%, con este indicador se pronostican millas que este año va a tener un boom. mediante un 4,6% (Espinoza y Liñan, 2018).

Actualmente, los daños observados en las avenidas y calles de las ciudades del Perú, debido a su ausencia de estrategias de conservación y mantenimiento. Al día de hoy, existen metodologías específicas para evaluar y examinar las fallas existentes en el interior de las aceras. Sin embargo, dentro de la mejora de este trabajo de estudio, se utilizará el método PCI para identificar las fallas y su severidad en el pavimento de toda la calle evaluada. Se puede lograr una popularidad superficial y visible, con miras a adquirir los hechos importantes para aplicar este sistema (Índice de Condición del Pavimento) y con el cálculo del

índice podemos cuantificar el país de conservación con una escala de 0 (cero) a 100 (cien).

En la ciudad de Huaraz, los pavimentos datan desde la década del setenta, que se empezaron a construir luego del sismo de 1970, y que muchos de ellos ya han alcanzado su ciclo de vida, también se observa que Huaraz al encontrarse en una zona de sierra las precipitaciones pluviales son intensas, especialmente entre los meses de diciembre a abril ocasionando el deterioro de los pavimentos, dentro del casco urbano de Huaraz se han construido pavimentos rígidos, y las carreteras que unen a los pueblos del callejón de Huaylas son de pavimento flexible. El alcance del estudio tiene como finalidad evaluar el estado actual de la infraestructura vial del Jr. Diego Ferrer de la Ciudad de Huaraz, Ancash, aplicando la metodología del Pavement Condition Index (PCI). Luego del análisis de esta vía, identificamos el problema cómo ¿Cuál es el estado actual del pavimento rígido del Jirón Diego Ferrer de la Ciudad de Huaraz?

De esta manera apoyar a la ciudad de Huaraz con un diagnóstico de la vía en mención. La justificación para la elaboración de este estudio, son: justificación técnica, ya que se utiliza una metodología científicamente probada, justificación social, debido que con el estudio se puede tomar medidas de mantenimiento e incrementar la vida útil del pavimento, mejorando la satisfacción de las personas que hacen uso de esta arteria como también de los vecinos de la zona y por último, presenta una justificación económica, porque el mantenimiento es mucho más económico que ejecutar una obra nueva.

Luego de analizar la problemática se propuso el objetivo general; evaluar el pavimento rígido aplicando el método de evaluación del pavimento rígido aplicando el PCI en el Jr. Diego Ferrer, Huaraz, Ancash, el cual se pretende alcanzar cumpliendo los siguientes objetivos específicos: El primer objetivo consiste en determinar los diferentes tipos de fallas o patologías existentes en las cuadras en el Jr. Diego Ferrer, Huaraz, Ancash. El segundo objetivo es realizar una evaluación superficial de las fallas determinadas aplicando la metodología del PCI. El último objetivo es proponer alternativas de solución para las fallas encontradas mediante el método del PCI.

La Hipótesis, es la evaluación superficial con el método PCI del Jr. Diego Ferrer, Huaraz, Ancash que permite conocer el estado actual del pavimento.

## **II. MARCO TEÓRICO**

En Antecedentes Internacionales tenemos a Casillas y Braham (2021), esta investigación denominada “Cuantificando la preservación de pavimentos en Arkansas” en los Estados Unidos, menciona que las medidas de preservación y durabilidad de pavimentos ha sido reconocida como una solución necesaria. Este estudio propone un novedoso método que define el análisis de la preservación del pavimento como una red para el PCI, con un cambio de la vida útil del pavimento, con sus siglas en inglés (RSL), desarrollaron un nuevo tipo de medida denominada tPRES que permite medir o calcular el tiempo para su mantenimiento, se aplicó a la red de carreteras de Arkansas DOT y sus siglas (ArDOT), se usó para determinar la preservación de los pavimentos con el método tPRES. En este estudio se realizaron dos análisis, el primero con el tratamiento de mantenimiento y rehabilitación tradicional del ArDOT. En sus resultados obtuvieron que con la aplicación del tPRES resultó 92 años, el segundo análisis se realizó con un plan de tratamiento optimizado con técnicas más diversas y se le aplicó el tPRES y dio un resultado de 46 años, concluyendo que el mantenimiento de las carreteras puede generar ahorros anuales de 146 millones de dólares en el primero y 155 millones de dólares en el segundo caso.

Discover (2020). En el condado de Waseca en Minnesota de EE.UU, se ejecutó una evaluación de las vías pavimentadas usando un vehículo Road Tester 3000, el que recogió los datos del deterioro de la superficie, para su clasificación del PCI, la muestra fue de 40 millas, que es responsabilidad del mantenimiento. Los resultados obtenidos son el PCI promedio, esto fue de 65.7 que representa a un estado o condición Regular. Este índice se refleja porque desde el año 2020 se han ido mejorando las vías de Waseca Streets, y los mapas del PCI también se han ido actualizando, proporcionando mejores condiciones del PCI. Se puede concluir que la información que proporciona el PCI de las vías pavimentadas de la ciudad son una valiosa herramienta para planificar y presupuestar el mantenimiento de las vías.

Arias (2014). La finalidad de esta investigación fue la evaluación de tres rutas del cantón de Alajuela en Costa Rica, realizaron un diagnóstico que consistió en el inventario vial, determinando la ubicación y en qué estado se encuentran, también utilizaron el software QuantumGIS, para sus trabajos topográficos, según la metodología del PCI, sus resultados fueron que el sistema de drenaje es deficiente en las tres rutas, escasa señalización y falta de aceras, el sector Pasito presenta una condición pobre. La calle conector Rosales Cooxata tiene una condición seria, el sector Pueblo Nuevo y barrio San José presentan condiciones de pobre, buena y seria. Concluyen los investigadores proponer medidas de rehabilitación para los tramos de condiciones pobres y fallidos.

Amr, Sherif y Emad (2021). El artículo científico titulado “Un modelo de regresión del índice de condición del pavimento simplificado para la evaluación del pavimento” realizado en Mansoura, Egipto. En este estudio propusieron un modelo de evaluación de pavimentos, con la aplicación de las metodologías para la evaluación superficial de pavimentos, aplicaron el índice de condición de pavimento PCI y el Índice Internacional de Rugosidad (IRI) y con el uso de la base de datos del rendimiento de pavimentos a largo plazo con sus siglas LTPP, los investigadores desarrollaron un modelo de regresión simplificado que vincule al Índice de Condición del Pavimento PCI, con el Índice Internacional de Rugosidad IRI, para el cálculo del PCI se usaron las medidas de las fallas de los pavimentos de 1,448 secciones, la base de datos de rendimiento de pavimento a largo plazo (LTPP) de los estudios específicos de los pavimentos (SPS) y los estudios generales de pavimentos (GPS), que son los datos de 12,744 puntos. Para el estudio utilizaron 1,208 unidades muestrales con 10,868 puntos con los que desarrollaron el modelo, para validar el modelo utilizaron 240 secciones con 1,876 puntos resultando el 0995, y el  $R^2$  igual a 0.992, concluyen que su modelo vasado en la metodología IRI y que es equivalente al PCI. Podemos mencionar el artículo “Desarrollo de curvas de deterioro para pavimento flexible y factor de incertidumbre” este estudio se desarrolló en las vías del territorio de Costa Rica, en él se menciona que desde hace tiempo se tiene el problema de la planificación en la construcción de sus vías, que muchas de estas se construyeron a partir de pequeños proyectos tratando de resolver necesidades inmediatas a causa del

incremento poblacional sin considerar la planificación a largo plazo, su objetivo fue de “desarrollar las curvas de deterioro para la Red Vial Cantonal en pavimento flexible, a través del PCI”. La metodología trabajada fue en tres fases, preliminar, desarrollo y final, en sus resultados podemos destacar que varias vías que no cuentan con registros detallados de la intervención que se realiza a la vía y que es difícil de elaborar sus curvas de deterioro. (Picado, 2016). En Antecedentes Nacionales tenemos el estudio de Grandez y Vallejos (2020). Estudio denominado “Aplicación de las Metodologías PCI y VIZIR en la Evaluación del Estado del Pavimento Flexible en la Av. Circunvalación, Distrito de Tarapoto, Provincia y Departamento de San Martín”. Elaborado para la Universidad Científica del Perú, los estudiosos utilizaron las metodologías del PCI y VIZIR para evaluar pavimentos de 27 cuadras de la Av. Circunvalación de la ciudad de Tarapoto, con fines de mejorar la calidad del estudio, la metodología empleada para este estudio fue de tipo y diseño descriptivo, realizaron la inspección visual y luego reportaron en los formatos los daños encontrados, sus resultados fueron la evaluación de la carpeta de rodadura asfáltica con los dos métodos PCI y VIZIR, concluyendo que el estado de la vía se encuentra en un estado Bueno.

Urrunaga (2021). La investigación titulada “Evaluación Superficial del Pavimento Rígido de las Vías de Acceso Vehicular por el Método PCI de la Localidad de Ichocán – Provincia de San Marcos – Dpto. Cajamarca”, estudio desarrollado para la Universidad Antenor Orrego con la finalidad de analizar detalladamente el estado de las vías de acceso vehicular a Ichocan. En su investigación evaluó ocho calles, considero una variable que fue la Evaluación por el Método (PCI). Los resultados que obtuvo son la presencia de tres tipos de fallas más frecuentes en 52 losas encontró grietas lineales, en 24 losas encontró pulimento de agregados y en las 23 losas encontró parches grade, luego determinó que el estado del pavimento se encuentra como Malo, por lo que concluyen que se debe realizar la remoción del pavimento y la reconstrucción, por la antigüedad este pavimento ya cumplió su vida útil.

Paucar (2019). Revisamos el estudio titulado “Evaluación de Pavimentos Flexibles y Rígidos Aplicando las Metodologías de Inspección Visual de Zonas y Rutas en Riesgo el Índice de Condición del Pavimento para el Mantenimiento Vial, Caso de

la Av. Floral y Jr. Carabaya, Puno”, Elaborado para la Universidad Nacional del Altiplano, para este informe planeo el objetivo de evaluar la superficie de la ciudad de Puno con la inspección visual con los métodos PCI y VIZIR. La evaluación se realizó en 02 vías, la Av. Floral que es de pavimento flexible y el Jr. Carabaya que está construido con pavimento rígido. La metodología de este estudio es aplicada y descriptiva, sus resultados fueron que para la Av. Floral presenta un índice de 49.35 que representa a un estado Regular y para el Jr. Carabaya presenta un índice de PCI de 41.91 también es un estado Regular, y para el método VIZIR resultados en los de 3 y 4 en el lado izquierdo y derecho respectivamente, concluye que las patologías más resaltantes encontradas en las vías evaluadas son los huecos, piel de cocodrilos y los parches, también los estados de cuatro vías son Regular y una vía es Bueno.

Panduro (2020). En su estudio denominado “Evaluación superficial del pavimento en la Av. Sebastián Lorente, Cercado de Lima, Lima, mediante el método de índice de condición del pavimento (PCI), en el año 2020”, elaborado para la Universidad Tecnológica del Perú, realizado en la ciudad de Lima, planteó como objetivo de determinar el estado de conservación del pavimento superficial de la Av. Sebastián Lorente – Barrios Altos, Cercado de Lima, Lima. La metodología de este estudio es descriptivo y no experimental, su población y muestra fue de 6 m por 1025 m de longitud de la Av. Sebastián Loarte. Los resultados que se determinó son, doce patologías como grietas por fatiga, depresión, hundimiento y abultamiento, agrietamiento longitudinal y transversal, huecos, ahuellamiento, grieta parabólica, hinchamiento, parcheo, Pulimiento de agregados y desprendimiento de agregados, siendo la más crítica la de depresión.

Rodríguez (2015). En su trabajo de investigación titulado “Evaluación de la Condición Operacional del Pavimento Rígido, Aplicando El Método del Pavement Condition Index (PCI), en las Pistas del Barrio El Triunfo, Distrito de Carhuaz, Provincia de Carhuaz, Región Ancash, Diciembre 2015”, tuvo como objetivo evaluar la condición operacional del pavimento rígido en las pistas del barrio el Triunfo, la metodología aplicada fue la guía del PCI, y como población las calles del barrio del Triunfo y la muestra 5 calles, podemos destacar sus resultados que de las 5 calles analizadas tienen un PCI de 45.20, obteniéndose la calificación de

Regular, las patologías que tuvieron mayor incidencia fue la patología de grieta de esquina y losa dividida.

Doig (2019). En su estudio denominado "Evaluación de 0.57 kilómetros de pavimento rígido mediante el método PCI de la avenida Confraternidad Internacional Este de la Provincia de Huaraz, Ancash, 2019", elaborado para la Universidad Cesar Vallejo, la investigadora planteo como objetivo conocer el estado de conservación del pavimento rígido de 0.57km de la Av. Confraternidad Internacional Este de la ciudad de Huaraz, la metodología fue cuantitativo de tipo aplicada y de diseño no experimental, la población de su estudio es 3.63 km. la longitud de la Av. Confraternidad Internacional Este y la muestra 0.57 Km, en sus resultados podemos ver que el tramo I PCI promedio es de 25 %, resultando una calificación del estado del pavimento rígido Malo. y El tramo II presenta un PCI de 10%, con una calificación de Muy Malo, las patologías más frecuentes son las grietas lineales y presentan un PCI de 40%, Regular. Estos resultados indican que el pavimento rígido debe ser mantenidas urgentemente.

Giraldo (2018). En su estudio denominado "Evaluación de las patologías del pavimento rígido del pasaje Agustín Loli, Urb. Soledad, Huaraz, Ancash", elaborado para la universidad San Pedro propuso como objetivo evaluar las patologías del pavimento rígido del Pasaje Agustín Loli Urb. Soledad de la ciudad de Huaraz, la metodología empleada fue aplicativo, descriptivo y transversal. Su población y muestra fue de 42 paños de 82.70 metros por 3.00 metros de ancho, los resultados obtenidos son, grieta lineal, desconchamiento, grietas, pulimiento de agregados, popouts, losa dividida y la calificación del pavimento rígido es Malo. Dentro del fundamento teórico se tiene a lo mencionado que el camino según el MTC (2018). Es una vía diseñada técnicamente y de acuerdo a las normas de cada país para uso de tránsito de vehículos motorizados mínimamente de 02 ejes, que poseen características geométricas como la pendientes longitudinales y secciones transversales, derechos de vía y otros componentes. Cemento. (Construmática 2018).

El cemento es un material proveniente de un proceso de calcinación (a más de 1400 °C) y molienda de la caliza y arcillas, el producto es Clinker que se tritura y

se le añade yeso para así dar el cemento portland, posee propiedades hidráulicas y que al juntarse con el agua y los agregados adquiere propiedades en estado fresco y endurecido, este nuevo componente que se forma viene a ser el concreto. El cemento se encuentra normado a nivel mundial en cinco tipos (I, II, III, IV y V). Concreto: El concreto o también llamado hormigón es el producto de la mezcla del cemento, agua y agregados, este producto tiene propiedades especiales tales como la trabajabilidad en los procesos constructivos, diversos tipos de resistencias, como, compresión, flexión tensión, etc., asimismo, pueden añadirse otros dispositivos o aditivos como sustancias químicas, sílice microscópica, fibras de metal, etc., se pueden intercambiar sus elementos comunes por elementos con particularidades específicos, tales como: agregados finos, agregados gruesos, cementos, aditivos químicos, etc. (Breitenbucher & Song, 2014). Pavimento: MTC (2014), el pavimento viene a ser la estructura que tiene como función dar una superficie adecuada para que los vehículos transiten con determinada comodidad, los pavimentos están construidos en varias capas y también soportar las cargas de vehículos, distribuirlas y transmitir las al suelo, las capas de los pavimentos inician en la subrasante, y comúnmente son la subbase, la base, la capa superficial o de rodadura. Un pavimento es un detalle estructural, formado por capas duras y superpuestas más bien horizontales, que están técnicamente diseñadas y construidas con sustancias adecuadas y efectivamente compactadas, estas estructuras estratificadas se apoyan en la subrasante de una carretera recibida con la ayuda de los movimientos de tierra en la técnica de exploración y que deben hacer frente con seguridad a los esfuerzos que las cargas repetidas de visitantes le transmiten en algún punto de la duración de la pavimentación, se diseñó la forma. (Macea et al., 2016).

Tipos de Pavimento: MTC (2014). Según el ministerio de transportes y comunicaciones del Perú, los tipos de pavimentos son: los pavimentos rígidos que son paños o losas de concreto que pueden ser de concreto simple o concreto armado, los pavimentos semirrígidos dentro de esos tipos están los pavimentos adoquinados de concreto y los pavimentos que están elaborados por diferentes capas de asfalto que pueden ser en base asfáltica, base de concreto, base tratada con material calcáreo (cal) y carpera asfáltica en caliente, que son los

pavimentos flexibles, que están contruidos por diferentes capas granulas como son la sub base y la base drenante, las superficies de rodadura son de material bituminoso en frio o puede trabajarse en caliente. Fallas en los pavimentos flexibles: Gamboa (2009). Las fallas en los pavimentos son patologías que surgen a consecuencia de diferentes causas, que van a disminuir la serviciabilidad y la funcionalidad de los pavimentos, para determinarlos se debe realizar inspecciones de los daños, evaluar la calidad del tránsito o del viaje y la determinación del nivel de severidad. Falla en pavimentos rígidos: podemos extraer del Ministerio de Obras Públicas y Comunicaciones (2016). Las fallas en los pavimentos rígidos son patologías que no fallan repentinamente, sino que es un proceso que se da gradualmente y progresivamente. La acción continua del tránsito y las condiciones climáticas son factores del deterioro superficial de los pavimentos, se manifiesta en diferentes fallas tanto superficiales y estructurales. Pavement Condition Index (PCI). Según Vásquez, L (2002), en su manual del PCI, menciona que este método es más completo en la evaluación de los pavimentos que permite evaluar y calificar objetivamente todos los tipos de pavimentos, en el catálogo de esta metodología están todos los daños del PCI, el PCI está en función a tres factores del tipo de patología, su severidad y cantidad o tamaño de la falla, este método mide al estado del pavimento desde 0 hasta 100, cero es un pavimento en mal estado y 100 es un pavimento en excelente o perfecto estado. ASTM D6433-20 (2020), procedimiento para la determinación del PCI de caminos y estacionamientos menciona que este método es a través de la observación visual con la metodología del PCI que es un indicador numérico, lo que permitirá la cuantificación de las condiciones superficiales de los pavimentos, la vía se divide en tramos y secciones que son las unidades de análisis o de muestra, con la observación visual se determinan los tipos de fallas presentes en el pavimento y su severidad, se miden y cuantifican sus patologías según los anexos de esta norma, luego se categoriza la condición del pavimento y se proponen las medidas de mantenimiento o reparación o demolición de la vía.

### III. METODOLOGÍA

#### 3.1. Tipo y Diseño de Investigación

Enfoque de Investigación: El enfoque del estudio es cuantitativo, debido a que los datos y resultados son numéricos. A ello se suma lo definido por Cohen y Gómez (2019), quienes mencionan que el enfoque cuantitativo se basa en resultados estadísticos que permitan dar a conocer los sucesos que se presentan.

Tipo de investigación: La investigación es de tipo aplicada, porque se basa en las investigaciones básicas o puras para resolver los problemas de la vida real. Referente a ello se tiene a Baena (2017), quien expresa que este tipo de estudio se basan en recopilar información para dar a conocer los sucesos que se presentan para tener la vialidad de un estudio y los lineamientos que se deben de seguir.

Diseño de Investigación: El vocablo “diseño” proviene del término proponer preguntas de exploración. Siendo el diseño no experimental, debido a que no se realizaron ensayos experimentales, se analizaron mediante la observación y medición. Al respecto Montalván et al. (2019), hacen mención que el diseño no experimental se basa en observaciones a la muestra sin intervenir en su comportamiento.

El alcance que presenta es transversal, porque se realizó en un período de tiempo corto. Neill y Cortez (2018). Expresan que los diseños transversales se enfocan en analizar a la variable propuesta en un solo momento. El esquema que rige el estudio es el siguiente:

**M ===== O ===== A ===== E**

Donde:

M = Muestra: Representa el área donde se ejecutó el estudio el Jr.

Diego Ferrer, Huaraz

O = Observación: Pavimento rígido del Jr. Diego Ferrer, Huaraz

A= Análisis

E= Evaluación del pavimento rígido

### 3.2. Variables y operacionalización

Espinoza (2019), menciona que las variables y su operacionalización se deben descomponer en dimensiones y traducirlas en sus indicadores, tanto así que las variables deben estar presentes en los títulos de los estudios y en característica susceptible a ser medido y que pueden modificar o adoptar diferentes valores, en la elaboración de este estudio se ha analizado una sola variable que es la evaluación superficial del pavimento, según el método del PCI.

**Definición conceptual:** Hernández et al. (2014). Trata a las variables con otros términos. El PCI es el método más complejo en evaluar y clasificar patologías de las carreteras y los pavimentos, el índice varía de 0 que es el estado malo al 100 que es el estado excelente, con la evaluación de la vía las unidades de análisis conformada por paños o losas de pavimento rígido, la identificación de las patologías y la categorización según la metodología del PCI.

**Definición Operacional:** La variable fue evaluada mediante el método del Pavement Condición Índice (PCI), con la inspección u observación visual del pavimento, la identificación de las fallas o patologías, la categorización y determinación del estado actual del pavimento.

**Indicadores:** Permiten medir o cuantificar a la variable, esta medición debe ser verificable, los indicadores no deben ser inventados y deben de ponerse de acuerdo al análisis científico del tipo de estudio. En la presente investigación los indicadores son las mediciones de las fallas encontradas en los pavimentos.

**Escala de medición:** La escala de medición se tomó del manual del Pavement Condición Índice (PCI), y pertenecen a la escala de Razón por que miden variables cuantitativas. (Coronado. S.f).

### 3.3. Población, muestra y muestreo

**Población:** Arias et al. (2016). Es el conjunto de casos, individuos que debe ser definidos, limitados y accesibles, deben tener características comunes que tienen que ser observables y susceptibles a ser medidos, y que posibilitará la determinación de la muestra, en este estudio la población son las calles de la ciudad de Huaraz.

**Muestra:** Se tomó el Jr. Diego Ferrer de 280,8 ml., referente a ello se tiene a Ochoa (2019), como una parte representativa que representa a la población y del cual se obtiene una muestra.

**Muestreo:** Según Espinoza (2016), menciona que el tipo de muestreo es No probabilística a conveniencia del investigador, para esta investigación está conformada por el Jr. Diego Ferrer.

**Unidad de Análisis:** según el método del PCI se tomó como unidad de análisis 156 losas o paños. Agrupados en 07 unidades de análisis.

### 3.4. Técnicas e Instrumentos de recolección de datos

**Técnica:** Caro (2021). Las técnicas son instrumentos empleados para la medición de la información de manera ordenada y organizada para la obtención de las metas u objetivos claros y específicos.

La información obtenida fue mediante la observación directa, que fue la técnica de recolección de datos, propuesto por el método PCI que consiste en observar las losas del pavimento y determinar en qué situación se encuentra, todo este procedimiento se realiza por métodos no destructivos ni de alteración de su entorno.

**Instrumentos:** El instrumento de recolección de datos que se utilizó fue la ficha del PCI para pavimentos de concreto rígido, en el que se llenó en primer lugar el nombre de la avenida en estudio, el responsable del llenado, la

unidad de muestreo, el número de losas y la fecha de trabajo en campo, para luego procesarlos en gabinete. Cabezas et al. (2018), expresan que los instrumentos permiten realizar anotaciones de las características que presente la muestra para dar a conocer los sucesos que se presenten. La técnica de recolección de datos según el PCI es cuantitativa, de observación visual y procesamiento en software.

**Tabla 1:** Instrumento del estudio

EXPLORACIÓN DE LA CONDICIÓN POR UNIDAD DE MUESTREO										
ZONA		ABSCISA INICIAL			UNIDAD DE MUESTREO					
CÓDIGO VÍA		ABSCISA FINAL			NÚMERO DE LOSAS					
INSPECCIONADA POR					FECHA					
No.	Daño		No.	Daño		No.	Daño			
21	Blow up / Buckling.		27	Desnivel Carril / Berma.		34	Punzonamiento.			
22	Grieta de esquina.		28	Grieta lineal.		35	Cruce de vía férrea			
23	Losas dividida.		29	Parqueo (grande).		36	Descorchamiento			
24	Grieta de durabilidad "D".		30	Parqueo (pequeño)		37	Retracción			
25	Escala.		31	Pulimento de agregados		38	Descascaramiento de esquina			
26	Sello de junta.		32	Popouts		39	Descascaramiento de junta			
			33	Bombeo						
Daño	Severidad	No. Losas	Densidad (%)	Valor deducido	ESQUEMA					
					o	o	o	o	o	
										10
					o	o	o	o	o	
										9
					o	o	o	o	o	
										8
					o	o	o	o	o	
										...
					o	o	o	o	o	
					1	2	3	4		

Fuente: Manual del PCI (2012)

### 3.5. Procedimientos

El procedimiento empleado fue primero la recolección y revisión de la bibliografía del tema, luego las vistas preliminares como el reconocimiento del área de estudio, luego se realizó las visitas técnicas del llenado de las fichas de inspección según la metodología del PCI, observando las patologías presentes en los pavimentos con la medición de las diferentes fallas, luego se realizaron los trabajos en gabinete. Concepción et al. (2019),

refiere que se basan en los pasos que se deben de seguir en una investigación desde la fase de inicio hasta su etapa final.

### **3.6. Método de análisis de datos**

Para el análisis de los datos se trabajó en cuatro etapas, la primera exploración inicial de la zona de estudio, el trabajo técnico de campo con el registro visual y el llenado de las fallas en las fichas técnicas del PCI, la clasificación y categorización y finalmente el procesamiento y análisis descriptivo de las fallas de los resultados obtenidos. Los software's empleados fueron el Google Eart, el Aucad Civil 3D para el procesamiento de las áreas, Corel Draw para la digitalización de los ábacos, la caracterización y magnitudes de las patologías se procesaron con la hoja de cálculos Excel y con los resultados obtenidos se elaboró las tablas y figuras que sustentan el presente estudio. Cienfuegos (2016), hace referencia que las técnicas estadísticas que se aplican al estudio para explicar los niveles que se presentan.

### **3.7. Aspecto ético**

Los aspectos éticos para la elaboración de este estudio de investigación: propiedad intelectual, responsabilidad y honestidad.

Para el correcto citado de las fuentes revisadas y mencionadas se ha utilizado el ISO 690 y para el porcentaje de originalidad el programa Turnitin.

Gallardos (2017), son los aspectos éticos considerados en el estudio y se basan en los criterios aplicados.



**4.2 Resultado 01:** Determinación los diferentes tipos de fallas o patologías existentes en las en el Jr. Diego Ferrer progresiva 0+000 hasta 0+280.6 ml., Huaraz, Ancash.

En total se presentan 07 UNIDADES distribuidas según el daño:

UNIDAD 01 (22 losas)

En la presente unidad se ha encontrado los siguientes daños:

- Daño Grieta de Esquina (22).
- Daño Sello de Junta (26).
- Daño Desnivel Carril / Berma (27).
- Daño Grieta Lineal (28).
- Daño Parcheo Grande (29).
- Daño Parcheo Pequeño (30).
- Daño Pulimento de Agregados (31)

Por lo tanto, de acuerdo al manual y haciendo los cálculos, el PCI resulta 32, y el rango de calificación de esta unidad es **MALO**. (Ver anexo 01)

**Tabla 2:** Resumen del tipo de daño y la severidad de la unidad 01

UNIDAD 01 (22 PAÑOS)																				
TIPOS DE DAÑOS Y SEVERIDAD																				
22	L	4	26	L	10	27	L	5	28	L	2	29	L	9	30	L	1	31	L	6
	M	7		M	3		M	2		M	8		M	2		M	1		M	9
	H	0		H	0		H	2		H	2		H	2		H	1		H	3

Fuente: Elaboración propia

**UNIDAD 02 (22 losas)**

En la presente unidad se ha encontrado los siguientes daños:

- Daño Grieta de Esquina (22).
- Daño Sello de Junta (26).
- Daño Desnivel Carril / Berma (27).
- Daño Grieta Lineal (28).
- Daño Parcheo Grande (29).
- Daño Parcheo Pequeño (30).
- Daño Pulimento de Agregados (31).

Por lo tanto, de acuerdo al manual y haciendo los cálculos, el PCI resulta 28, y el rango de calificación de esta unidad es **MALO**. (Ver anexo 01)

**Tabla 3:** Resumen del tipo de daño y la severidad de la unidad 02

UNIDAD 02 (22 PAÑOS)																				
TIPOS DE DAÑOS Y SEVERIDAD																				
22	L	3	26	L	14	27	L	3	28	L	4	29	L	17	30	L	3	31	L	15
	M	5		M	3		M	1		M	15		M	3		M	0		M	4
	H	1		H	0		H	0		H	2		H	1		H	2		H	0

Fuente: Elaboración propia

### UNIDAD 03 (22 losas)

En la presente unidad se ha encontrado los siguientes daños:

- Daño Grieta de Esquina (22).
- Daño Sello de Junta (26).
- Daño Desnivel Carril / Berma (27).
- Daño Grieta Lineal (28).
- Daño Parcheo Grande (29).
- Daño Parcheo Pequeño (30).
- Daño Pulimento de Agregados (31).

Por lo tanto, de acuerdo al manual y haciendo los cálculos, el PCI resulta 45, y el rango de calificación de esta unidad es **REGULAR**. (Ver anexo 01)

**Tabla 4:** Resumen del tipo de daño y la severidad de la unidad 03

UNIDAD 03 (22 PAÑOS)																				
TIPOS DE DAÑOS Y SEVERIDAD																				
22	L	4	26	L	8	27	L	1	28	L	1	29	L	21	30	L	9	31	L	5
	M	4		M	8		M	1		M	10		M	1		M	1		M	0
	H	0		H	0		H	0		H	0		H	0		H	0		H	0

Fuente: Elaboración propia

### UNIDAD 04 (22 losas)

En la presente unidad se ha encontrado los siguientes daños:

- Daño Grieta de Esquina (22).
- Daño Sello de Junta (26).
- Daño Desnivel Carril / Berma (27).
- Daño Grieta Lineal (28).
- Daño Parcheo Grande (29).
- Daño Parcheo Pequeño (30).
- Daño Pulimento de Agregados (31).

Por lo tanto, de acuerdo al manual y haciendo los cálculos, el PCI resulta 45, y el rango de calificación de esta unidad es **REGULAR**. (Ver anexo 01)

**Tabla 5:** Resumen del tipo de daño y la severidad de la unidad 04

UNIDAD 04 (22 PAÑOS)																				
TIPOS DE DAÑOS Y SEVERIDAD																				
22	L	1	26	L	3	27	L	1	28	L	3	29	L	16	30	L	4	31	L	4
	M	6		M	5		M	1		M	10		M	5		M	2		M	2
	H	0		H	0		H	0		H	0		H	0		H	0		H	0

Fuente: Elaboración propia

### UNIDAD 05 (22 losas)

En la presente unidad se ha encontrado los siguientes daños:

- Daño Grieta de Esquina (22).
- Daño Sello de Junta (26).
- Daño Desnivel Carril / Berma (27).
- Daño Grieta Lineal (28).
- Daño Parcheo Grande (29).
- Daño Parcheo Pequeño (30).
- Daño Pulimento de Agregados (31).

Por lo tanto, de acuerdo al manual y haciendo los cálculos, el PCI resulta 31, y el rango de calificación de esta unidad es **MALO**. (Ver anexo 01)

**Tabla 6:** Resumen del tipo de daño y la severidad de la unidad 05

UNIDAD 05 (22 PAÑOS)																				
TIPOS DE DAÑOS Y SEVERIDAD																				
22	L	1	26	L	2	27	L	0	28	L	3	29	L	8	30	L	10	31	L	5
	M	16		M	9		M	3		M	13		M	3		M	2		M	1
	H	0		H	2		H	2		H	0		H	2		H	1		H	0

Fuente: Elaboración propia

### UNIDAD 06 (23 losas)

En la presente unidad se ha encontrado los siguientes daños:

- Daño Grieta de Esquina (22).
- Daño Sello de Junta (26).
- Daño Desnivel Carril / Berma (27).
- Daño Grieta Lineal (28).
- Daño Parcheo Grande (29).

- Daño Parcheo Pequeño (30).
- Daño Pulimento de Agregados (31).

Por lo tanto, de acuerdo al manual y haciendo los cálculos, el PCI resulta 09, y el rango de calificación de esta unidad es **FALLADO**. (Ver anexo 01)

**Tabla 7:** Resumen del tipo de daño y la severidad de la unidad 06

UNIDAD 06 (23 PAÑOS)																				
TIPOS DE DAÑOS Y SEVERIDAD																				
22	L	1	26	L	5	27	L	0	28	L	0	29	L	8	30	L	2	31	L	7
	M	14		M	12		M	1		M	11		M	10		M	2		M	3
	H	3		H	0		H	3		H	1		H	0		H	0		H	1

Fuente: Elaboración propia

### UNIDAD 07 (23 losas)

En la presente unidad se ha encontrado los siguientes daños:

- Daño Grieta de Esquina (22).
- Daño Sello de Junta (26).
- Daño Desnivel Carril / Berma (27).
- Daño Grieta Lineal (28).
- Daño Parcheo Grande (29).
- Daño Parcheo Pequeño (30).
- Daño Pulimento de Agregados (31).

Por lo tanto, de acuerdo al manual y haciendo los cálculos, el PCI resulta 21, y el rango de calificación de esta unidad es **MUY MALO**. (Ver anexo 01)

**Tabla 8:** Resumen del tipo de daño y la severidad de la unidad 07

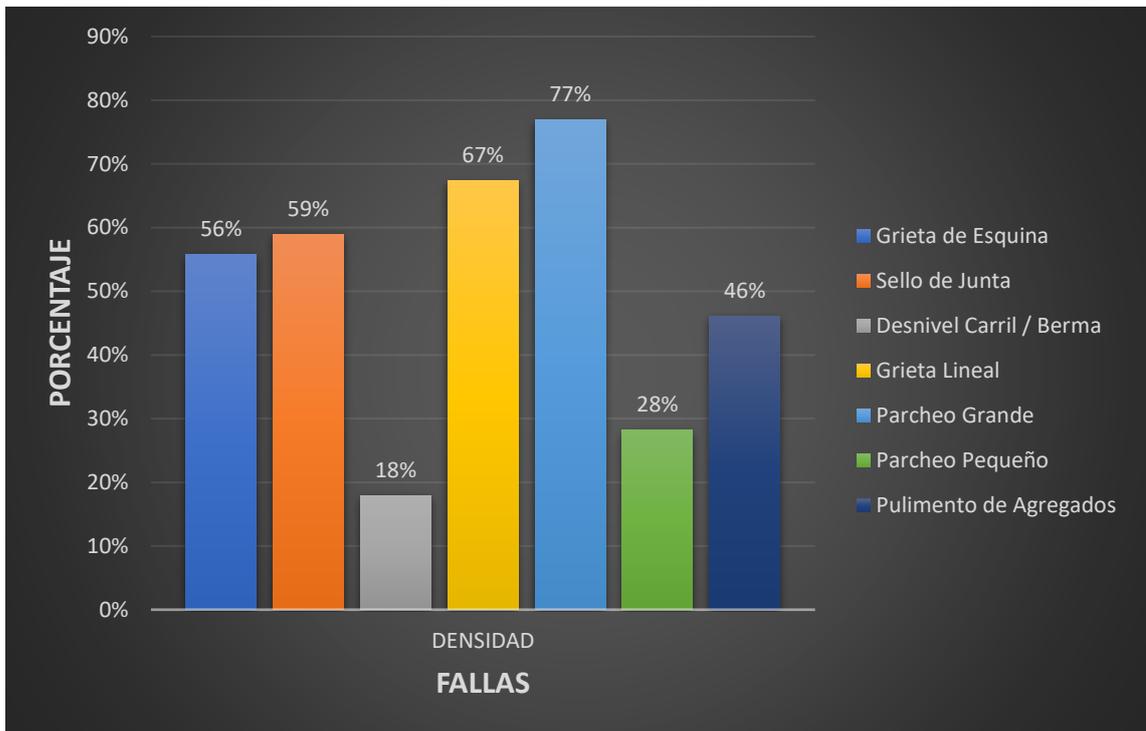
UNIDAD 07 (23 PAÑOS)																				
TIPOS DE DAÑOS Y SEVERIDAD																				
22	L	5	26	L	6	27	L	1	28	L	4	29	L	6	30	L	3	31	L	3
	M	12		M	2		M	1		M	16		M	6		M	3		M	2
	H	0		H	0		H	0		H	0		H	0		H	0		H	2

Fuente: Elaboración propia

**Tabla 09:** Resumen del tipo de daño y severidad de todas las unidades

CONTEO TOTAL DE FALLAS EN TODO EL PAVIMENTO																				
TIPOS DE DAÑOS Y SEVERIDAD																				
22	L =	19	26	L =	48	27	L =	11	28	L =	17	29	L =	85	30	L =	32	31	L =	45
	M =	64		M =	42		M =	10		M =	83		M =	30		M =	8		M =	21
	H =	4		H =	2		H =	7		H =	5		H =	5		H =	4		H =	6

Fuente: Elaboración propia



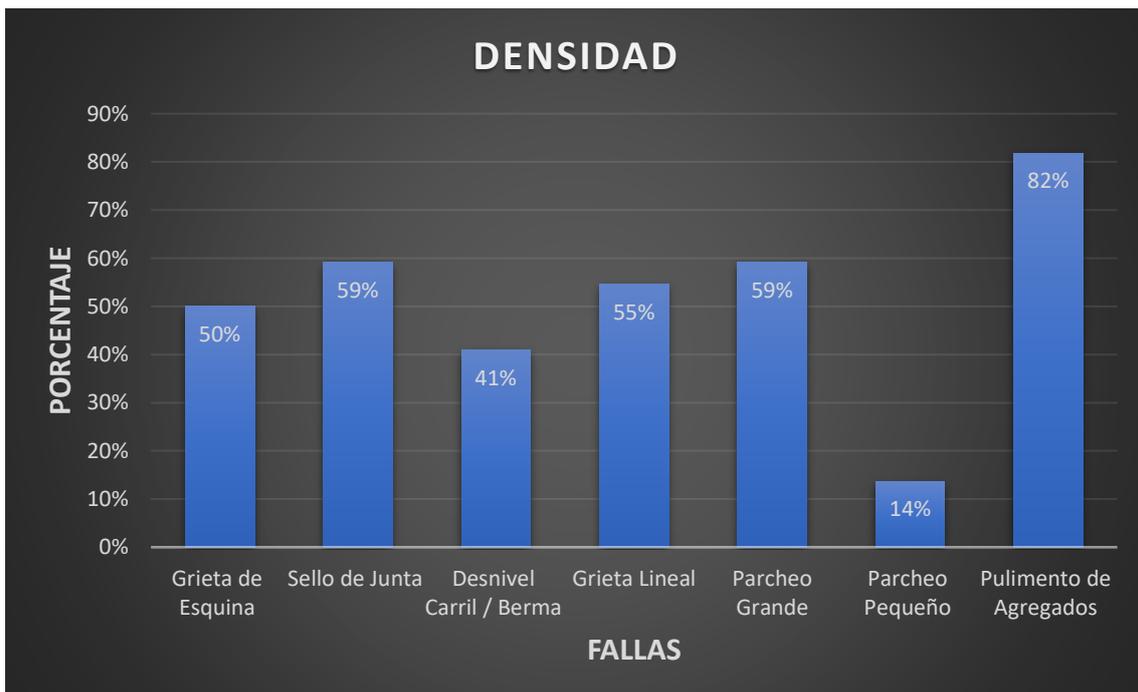
**4.3 Resultado 02:** Evaluación superficial de fallas determinadas aplicando la metodología del PCI.

**UNIDAD 01: Memoria de Cálculo de la Densidad y el Valor Deducido.  
(Ver anexo 01)**

**Tabla 10:** Cálculo de la densidad y el valor deducido

UNIDAD 01		PAÑOS = 22		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	4	18%	16
	M	7	32%	40
	H	0	0%	0
26	L	10	45%	2
	M	3	14%	4
	H	0	0%	0
27	L	5	23%	2
	M	2	9%	4
	H	2	9%	8
28	L	2	9%	4
	M	8	36%	22
	H	2	9%	17
29	L	9	41%	16
	M	2	9%	4
	H	2	9%	15
30	L	1	5%	0
	M	1	5%	0
	H	1	5%	2
31	L	6	27%	4
	M	9	41%	6
	H	3	14%	2

Fuente: Elaboración propia



## Memoria de Cálculo del Valor Deducido Corregido

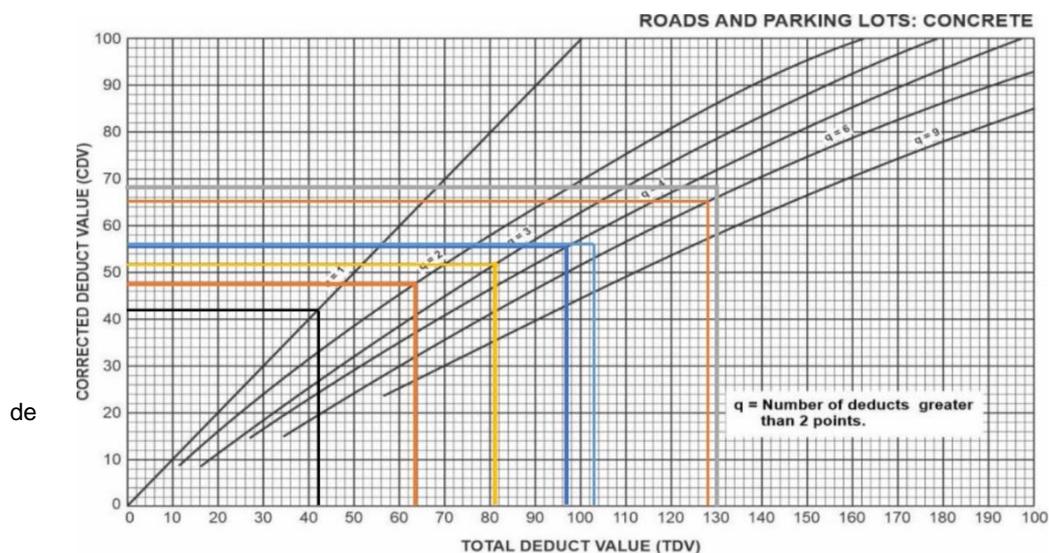
Tabla 11: Cálculo del máximo valor deducido (VDC)

N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	40	22	17	16	16	15	4	130	7	68
2	40	22	17	16	16	15	2	128	6	65
3	40	22	17	16	16	2		113	5	56
4	40	22	17	16	2			97	4	55
5	40	22	17	2				81	3	52
6	40	22	2					64	2	48
7	40	2						42	1	42

Max. VDC=68

PCI = 100-Max. VDC = 32

Figura 2: Cálculo del máximo valor deducido (VDC)



## Calificación de la condición del pavimento

Tabla 12: Calificación de la condición del pavimento

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

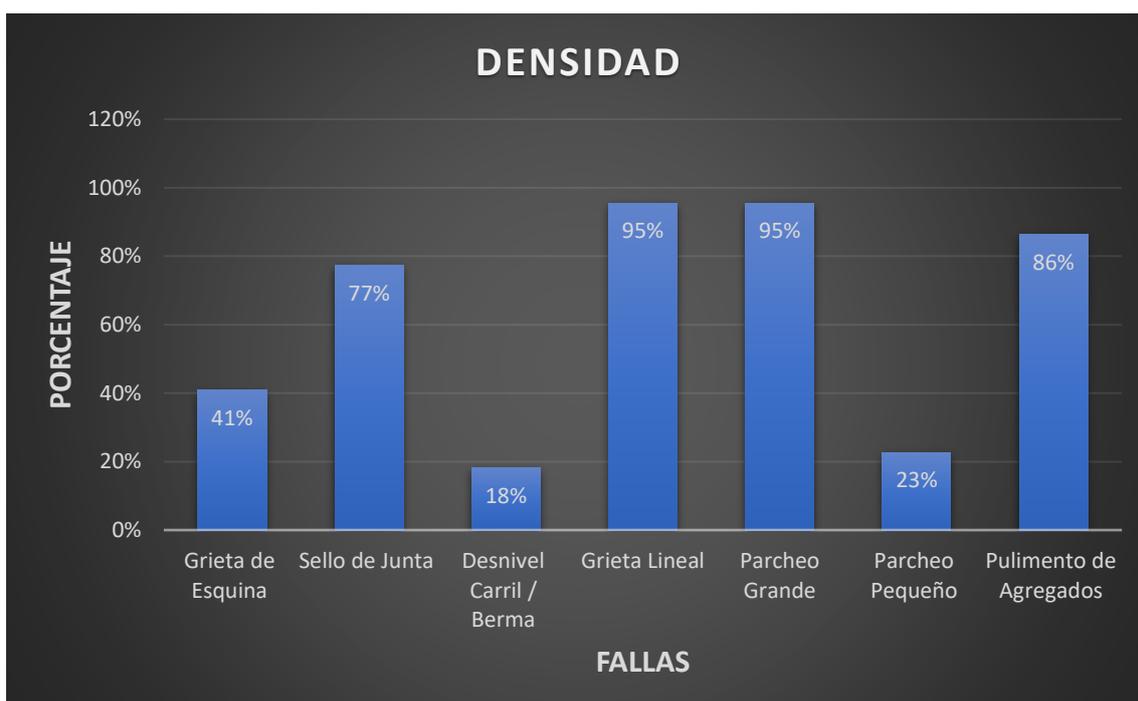
**LA CALIFICACIÓN DEL PCI ES MALO**

**UNIDAD 02: Memoria de Cálculo de la Densidad y el Valor Deducido.  
(Ver anexo 01)**

**Tabla 013:** Cálculo de la densidad y el valor deducido

UNIDAD 02		PAÑOS = 22		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	3	14%	12
	M	5	23%	32
	H	1	5%	13
26	L	14	64%	2
	M	3	14%	4
	H	0	0%	0
27	L	3	14%	2
	M	1	5%	3
	H	0	0%	0
28	L	4	18%	10
	M	15	68%	32
	H	2	9%	17
29	L	17	77%	25
	M	3	14%	7
	H	1	5%	9
30	L	3	14%	1
	M	0	0%	0
	H	2	9%	4
31	L	15	68%	8
	M	4	18%	3
	H	0	0%	0

Fuente: Elaboración propia



## Memoria de Cálculo de la Densidad y el Valor Deducido Corregido

### Memoria de Cálculo del Valor Deducido Corregido

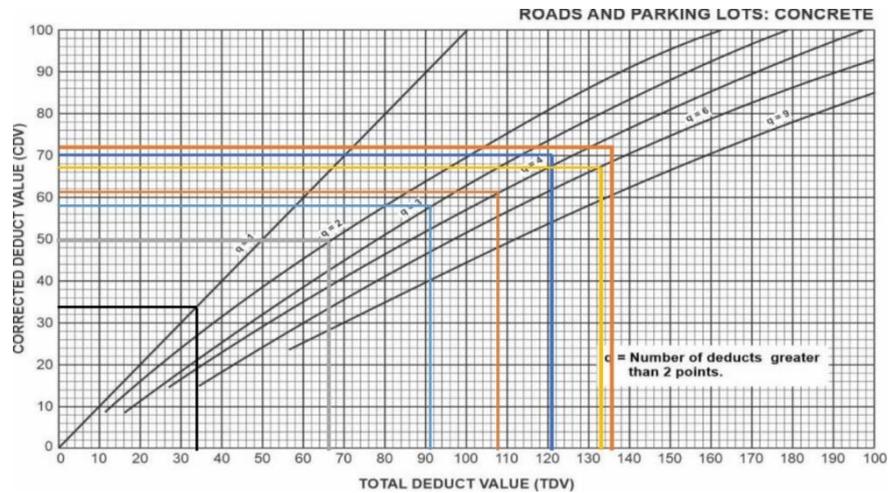
Tabla 14: Cálculo del máximo valor deducido (VDC)

N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	32	32	25	17	13	12	5,1	136,1	7	72
2	32	32	25	17	13	12	2	133	6	67
3	32	32	25	17	13	2		121	5	70
4	32	32	25	17	2			108	4	61
5	32	32	25	2				91	3	68
6	32	32	2					66	2	50
7	32	2						34	1	34

Max. VDC=72

PCI = 100-Max. VDC = 28

Figura 3: Cálculo del máximo valor deducido (VDC)



### Calificación de la condición del pavimento

Tabla 15: Calificación de la condición del pavimento.

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

**LA CALIFICACIÓN DEL PCI ES MALO**

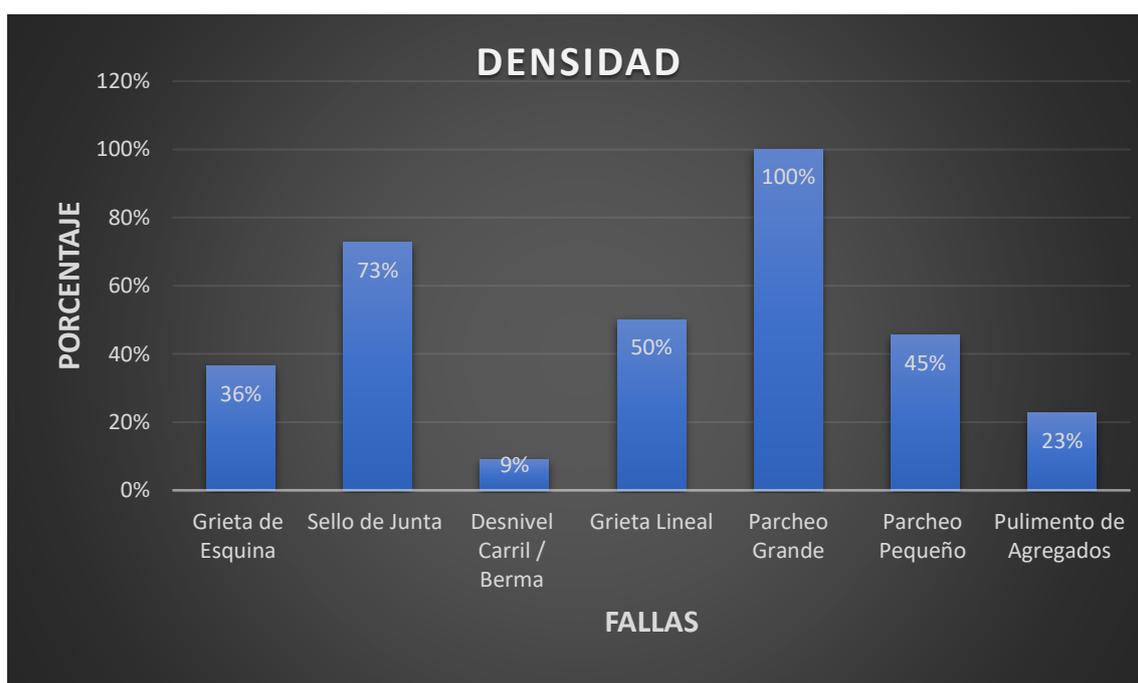
**UNIDAD 03: Memoria de Cálculo de la Densidad y el Valor Deducido.**  
**(Ver anexo 01)**

**Memoria de Cálculo de la Densidad y el Valor Deducido**

**Tabla 16:** Cálculo de la densidad y el valor deducido

UNIDAD 03		PAÑOS = 22		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	4	18%	16
	M	4	18%	26
	H	0	0%	0
26	L	8	36%	2
	M	8	36%	4
	H	0	0%	0
27	L	1	5%	1
	M	1	5%	3
	H	0	0%	0
28	L	1	5%	3
	M	10	45%	25
	H	0	0%	0
29	L	21	95%	28
	M	1	5%	2
	H	0	0%	0
30	L	9	41%	2
	M	1	5%	0
	H	0	0%	0
31	L	5	23%	4
	M	0	0%	0
	H	0	0%	0

Fuente: Elaboración propia



## Memoria de Cálculo de la Densidad y el Valor Deducido Corregido

### Memoria de Cálculo del Valor Deducido Corregido

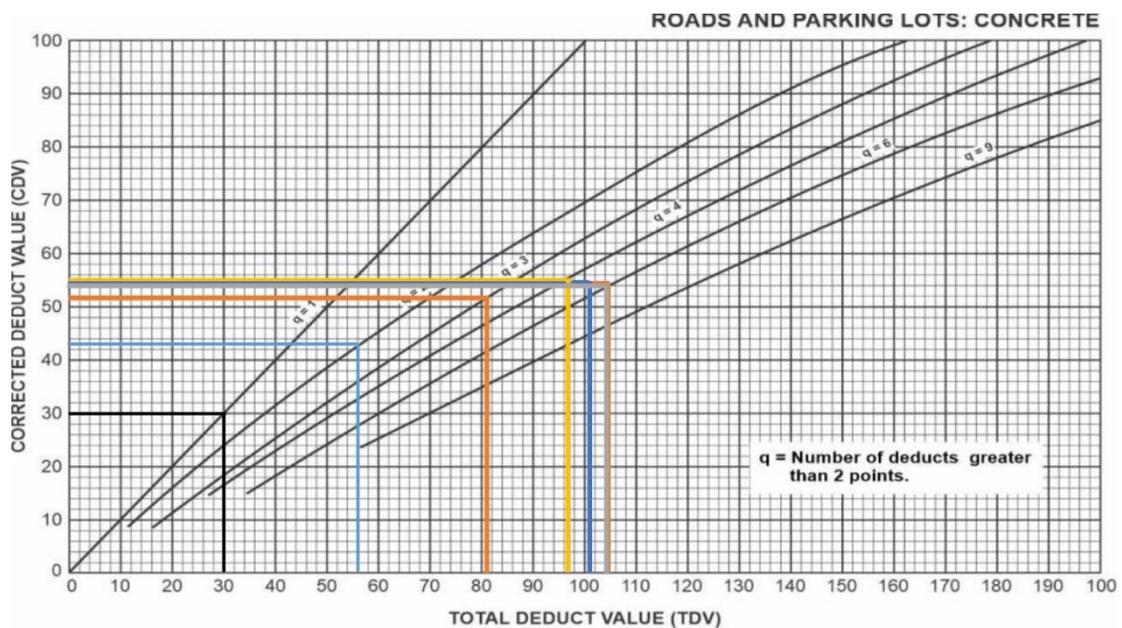
Tabla 17: Cálculo del máximo valor deducido (VDC)

N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	28	26	25	16	4	3	1,2	103,2	6	54
2	28	26	25	16	4	3	2	104	6	54
3	28	26	25	16	4	2		101	5	55
4	28	26	25	16	2			97	4	55
5	28	26	25	2				81	3	52
6	28	26	2					56	2	43
7	28	2						30	1	30

Max. VDC=55

PCI = 100-Max. VDC = 45

Figura 4: Cálculo del máximo valor deducido (VDC)



### Calificación de la Condición del Pavimento

Tabla 18: Calificación de la condición del pavimento

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

**LA CALIFICACIÓN DEL PCI ES REGULAR**

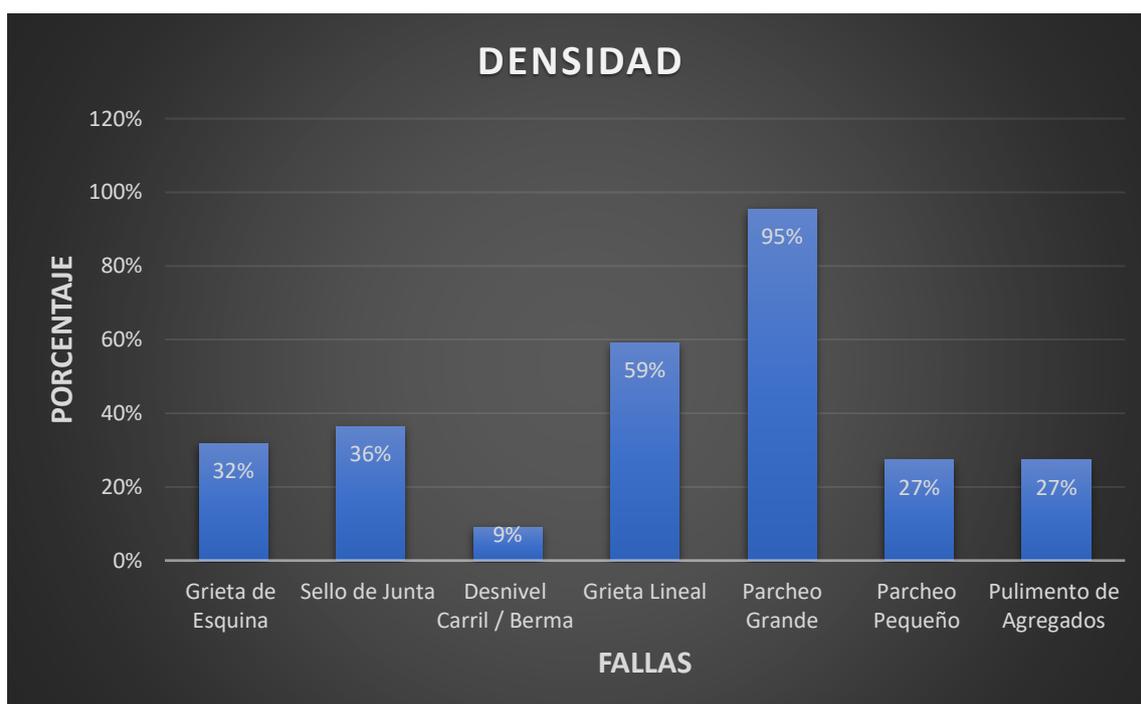
**UNIDAD 04: Memoria de Cálculo de la Densidad y el Valor Deducido.**  
**(Ver anexo 01)**

**Memoria de Cálculo de la Densidad y el Valor Deducido**

**Tabla 19:** Cálculo de la densidad y el valor deducido

UNIDAD 04		PAÑOS = 22		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	1	5%	4
	M	6	27%	35
	H	0	0%	0
26	L	3	14%	2
	M	5	23%	4
	H	0	0%	0
27	L	1	5%	1
	M	1	5%	3
	H	0	0%	0
28	L	3	14%	8
	M	10	45%	25
	H	0	0%	0
29	L	16	73%	24
	M	5	23%	8
	H	0	0%	0
30	L	4	18%	1
	M	2	9%	1
	H	0	0%	0
31	L	4	18%	3
	M	2	9%	1
	H	0	0%	0

Fuente: Elaboración propia



## Memoria de Cálculo de la Densidad y el Valor Deducido Corregido

### Memoria de Cálculo del Valor Deducido Corregido

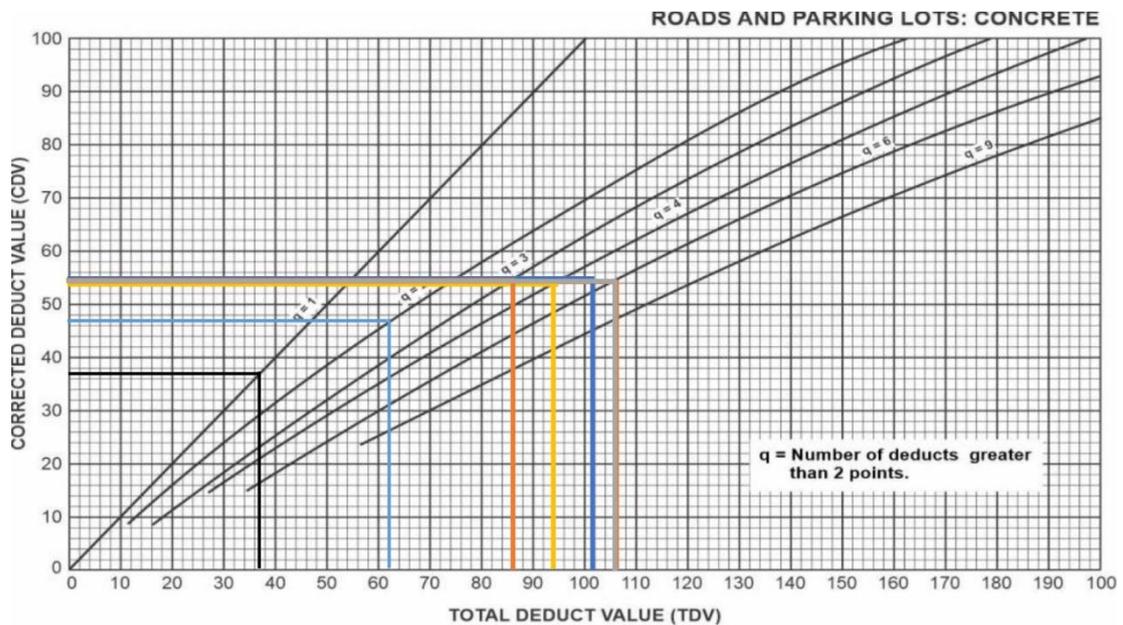
Tabla 20: Cálculo del máximo valor deducido (VDC)

N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	35	25	24	8	8	4	2,04	106,04	6	54
2	35	25	24	8	8	4	2	106	6	54
3	35	25	24	8	8	2		102	5	55
4	35	25	24	8	2			94	4	54
5	35	25	24	2				86	3	55
6	35	25	2					62	2	47
7	35	2						37	1	37

Max. VDC=55

PCI = 100-Max. VDC = 45

Figura 5: Cálculo del máximo valor deducido (VDC)



### Calificación de la Condición del Pavimento

Tabla 21: Calificación del PCI

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

**LA CALIFICACIÓN DEL PCI ES REGULAR**

**UNIDAD 05: Memoria de Cálculo de la Densidad y el Valor Deducido.**

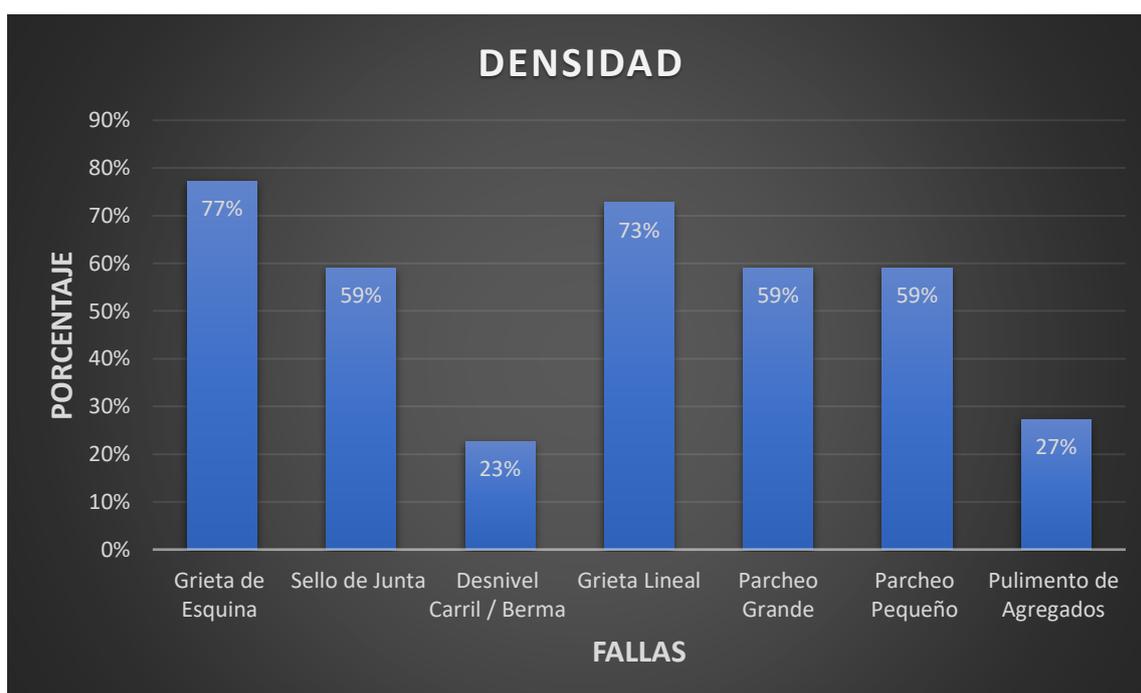
**(Ver anexo 01)**

**Memoria de Cálculo de la Densidad y el Valor Deducido**

**Tabla 22:** Cálculo de la densidad y el valor deducido

UNIDAD 05		PAÑOS = 22		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	1	5%	4
	M	16	73%	59
	H	0	0%	0
26	L	2	9%	2
	M	9	41%	4
	H	2	9%	8
27	L	0	0%	0
	M	3	14%	6
	H	2	9%	8
28	L	3	14%	8
	M	13	59%	30
	H	0	0%	0
29	L	8	36%	14
	M	3	14%	8
	H	2	9%	15
30	L	10	45%	3
	M	2	9%	1
	H	1	5%	2
31	L	5	23%	4
	M	1	5%	1
	H	0	0%	0

Fuente: Elaboración propia



## Memoria de Cálculo de la Densidad y el Valor Deducido Corregido

### Memoria de Cálculo del Valor Deducido Corregido

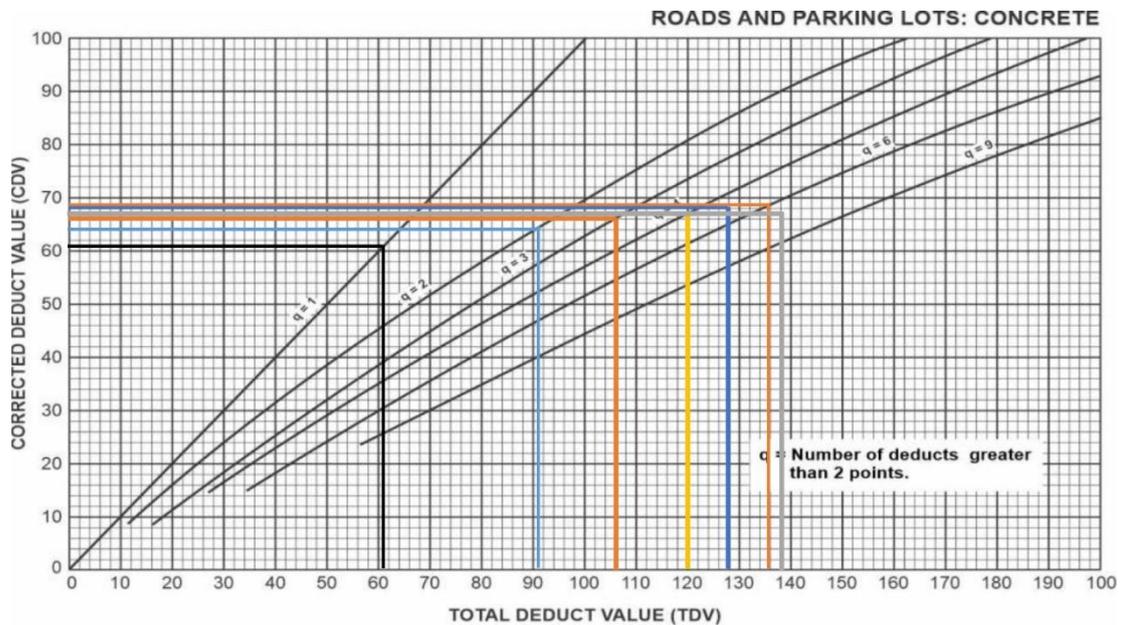
Tabla 23: Cálculo del máximo valor deducido (VDC)

N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	59	30	15	14	8	8	4,08	138,08	7	67
2	59	30	15	14	8	8	2	136	6	69
3	59	30	15	14	8	2		128	5	68
4	59	30	15	14	2			120	4	67
5	59	30	15	2				106	3	66
6	59	30	2					91	2	64
7	59	2						61	1	61

Max. VDC=69

PCI = 100-Max. VDC = 31

Figura 6: Cálculo del máximo valor deducido (VDC)



### Calificación de la Condición del Pavimento

Tabla 24: Calificación del PCI

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

**LA CALIFICACIÓN DEL PCI ES MALO**

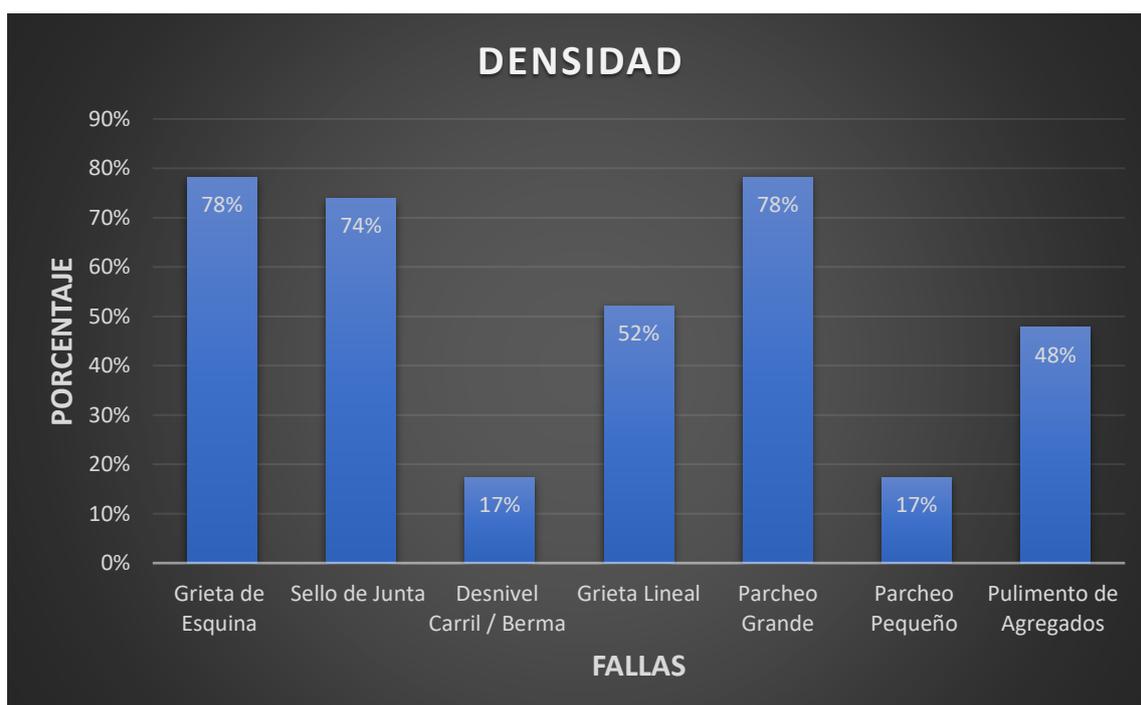
**UNIDAD 06: Memoria de Cálculo de la Densidad y el Valor Deducido.**  
**(Ver anexo 01)**

**Memoria de Cálculo de la Densidad y el Valor Deducido**

**Tabla 25:** Cálculo de la densidad y el valor deducido

UNIDAD 06		PAÑOS = 23		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	1	4%	3
	M	14	61%	56
	H	3	13%	30
26	L	5	22%	2
	M	12	52%	4
	H	0	0%	0
27	L	0	0%	0
	M	1	4%	2
	H	3	13%	10
28	L	0	0%	0
	M	11	48%	26
	H	1	4%	8
29	L	8	35%	14
	M	10	43%	30
	H	0	0%	0
30	L	2	9%	0
	M	2	9%	1
	H	0	0%	0
31	L	7	30%	34
	M	3	13%	2
	H	1	4%	0

Fuente: Elaboración propia



## Memoria de Cálculo de la Densidad y el Valor Deducido Corregido

### Memoria de Cálculo del Valor Deducido Corregido

Tabla 26: Cálculo del máximo valor deducido (VDC)

N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	56	34	30	30	26	14	5,1	195,1	7	88
2	56	34	30	30	26	14	2	192	6	91
3	56	34	30	30	26	2		178	5	88
4	56	34	30	30	2			152	4	82
5	56	34	30	2				122	3	74
6	56	34	2					92	2	65
7	56	2						58	1	58

Max. VDC=91

PCI = 100-Max. VDC = 9

Figura 7: Cálculo del máximo valor deducido (VDC)



Tabla 27: Calificación del PCI

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

**LA CALIFICACIÓN DEL PCI ES FALLADO**

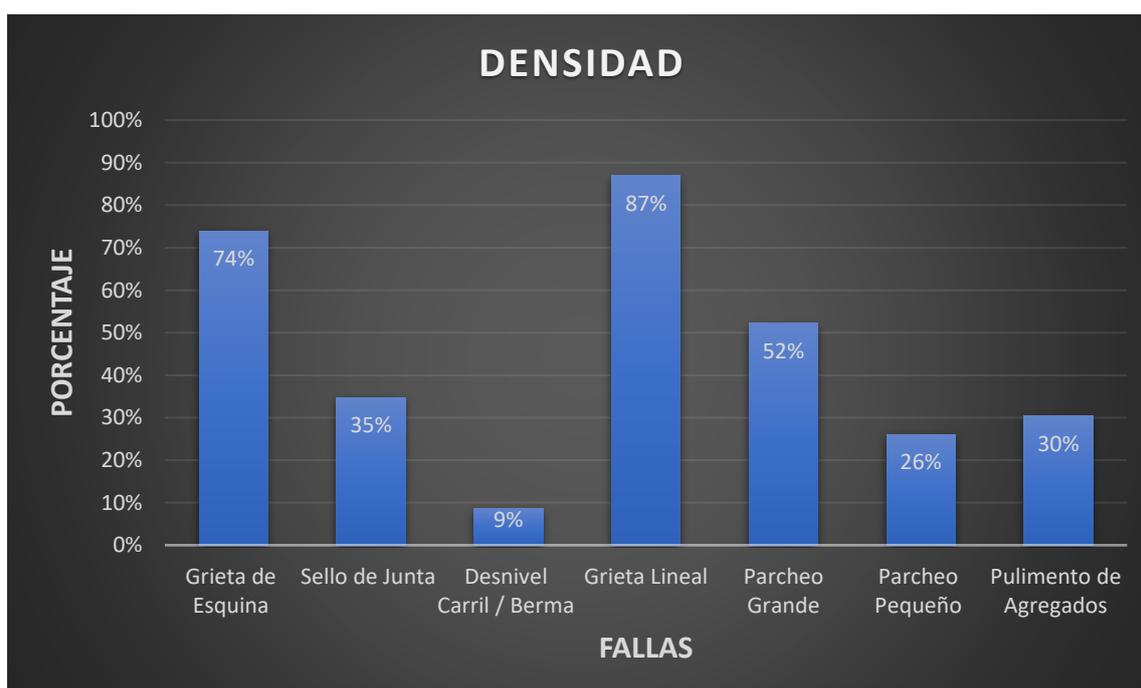
**UNIDAD 07: Memoria de Cálculo de la Densidad y el Valor Deducido.**  
**(Ver anexo 01)**

**Memoria de Cálculo de la Densidad y el Valor Deducido**

**Tabla 28:** Cálculo de la densidad y el valor deducido

UNIDAD 07		PAÑOS = 23		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	5	22%	19
	M	12	52%	53
	H	0	0%	0
26	L	6	26%	2
	M	2	9%	4
	H	0	0%	0
27	L	1	4%	0
	M	1	4%	2
	H	0	0%	0
28	L	4	17%	9
	M	16	70%	32
	H	0	0%	0
29	L	6	26%	10
	M	6	26%	35
	H	0	0%	0
30	L	3	13%	1
	M	3	13%	2
	H	0	0%	0
31	L	3	13%	2
	M	2	9%	2
	H	2	9%	2

Fuente: Elaboración propia



## Memoria de Cálculo de la Densidad y el Valor Deducido Corregido

### Memoria de Cálculo del Valor Deducido Corregido

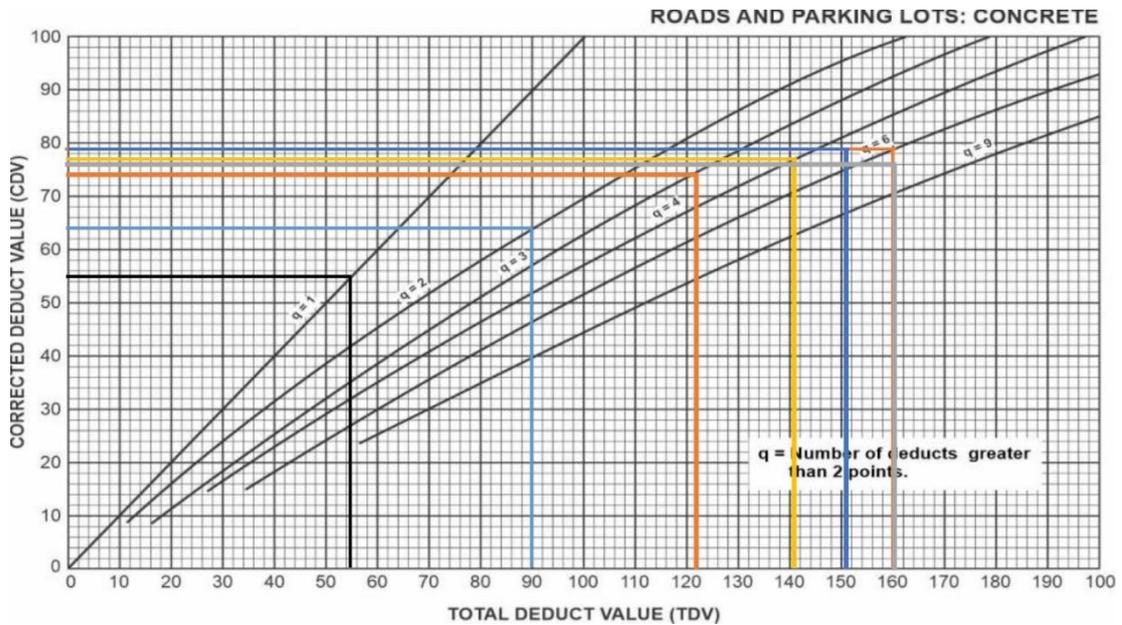
Tabla 29: Cálculo del máximo valor deducido (VDC)

N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	53	35	32	19	10	9	2,04	160,04	7	76
2	53	35	32	19	10	9	2	160	6	79
3	53	35	32	19	10	2		151	5	79
4	53	35	32	19	2			141	4	77
5	53	35	32	2				122	3	74
6	53	35	2					90	2	64
7	53	2						55	1	55

Max. VDC=79

PCI = 100-Max. VDC = 21

Figura 8: Cálculo del máximo valor deducido (VDC)



### Calificación de la Condición del Pavimento

Tabla 30: Calificación del PCI

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

## LA CALIFICACIÓN DEL PCI ES MUY MALO

**Tabla 31:** Resumen de los Resultados y la Calificación del PCI

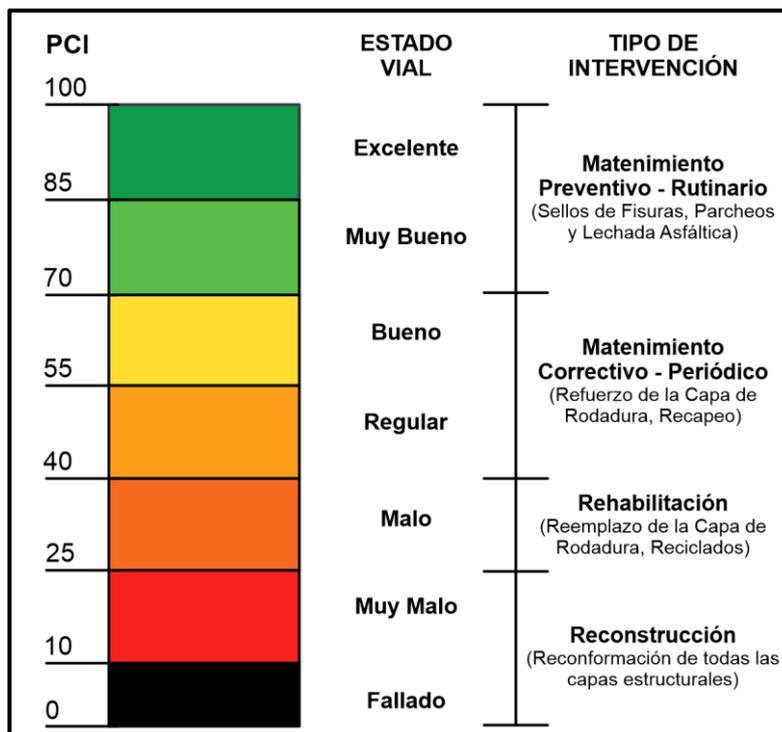
UNIDAD DE ANÁLISIS	VCD	CLASIFICACIÓN
01	32	MALO
02	28	MALO
03	45	REGULAR
04	45	REGULAR
05	31	MALO
06	9	FALLADO
07	21	MUY MALO
<b>PROMEDIO</b>	<b>30</b>	<b>MALO</b>

Fuente: Elaboración propia

Interpretación de la tabla 37: La unidad uno presenta una calificación de MALO, la unidad de análisis dos tiene una calificación de MALO, la unidad de análisis tres presenta una calificación de REGULAR, la unidad de análisis cuatro presenta una calificación de MALO, la unidad de análisis cinco presenta una calificación de MALO, la unidad de análisis seis presenta una calificación FALLADO y la unidad de análisis siete presenta una calificación de MUY MALO. El promedio de la evaluación del pavimento rígido del Jr. Diego Ferrer es MALO

**4.4 Resultado 03:** Alternativas de solución para las fallas encontradas mediante el método del el PCI.

*Escala de PCI y tipo de intervención.*



Fuente: Manual de PCI (2012)

- **En la UNIDAD 01**, se encontró que el VDC = 32 y mediante la aplicación de la metodología PCI, se tiene que la condición del tramo evaluado es MALO. Según el Manual del PCI (2012), se recomienda una REHABILITACIÓN, teniendo en cuenta un reemplazo de la carpeta de rodadura.
- **En la UNIDAD 02**, se encontró que el VDC = 28 y mediante la aplicación de la metodología PCI, se tiene que la condición del tramo evaluado es MALO. Según el Manual del PCI (2012), se recomienda una REHABILITACIÓN, teniendo en cuenta un reemplazo de la carpeta de rodadura.
- **En la UNIDAD 03**, se encontró que el VDC = 45 y mediante la aplicación de la metodología PCI, se tiene que la condición del tramo evaluado es REGULAR.

Según el Manual del PCI (2012), se recomienda un MANTENIMIENTO (Correctivo – Periódico), teniendo en cuenta un reforzamiento de la carpeta de rodadura.

- **En la UNIDAD 04**, se encontró que el VDC = 45 y mediante la aplicación de la metodología PCI, se tiene que la condición del tramo evaluado es REGULAR.

Según el Manual del PCI (2012), se recomienda un MANTENIMIENTO (Correctivo – Periódico), teniendo en cuenta un reforzamiento de la carpeta de rodadura.

- **En la UNIDAD 05**, se encontró que el VDC = 31 y mediante la aplicación de la metodología PCI, se tiene que la condición del tramo evaluado es MALO.

Según el Manual del PCI (2012), se recomienda una REHABILITACIÓN, teniendo en cuenta un reemplazo de la carpeta de rodadura.

- **En la UNIDAD 06**, se encontró que el VDC = 9 y mediante la aplicación de la metodología PCI, se tiene que la condición del tramo evaluado es FALLADO.

Según el Manual del PCI (2012), se recomienda una RECONSTRUCCIÓN, teniendo en cuenta una reconfiguración de toda la capa estructural.

- **En la UNIDAD 07**, se encontró que el VDC = 21 y mediante la aplicación de la metodología PCI, se tiene que la condición del tramo evaluado es MUY MALO.

Según el Manual del PCI (2012), se recomienda una RECONSTRUCCIÓN, teniendo en cuenta una reconfiguración de toda la capa estructural.

#### **IV. DISCUSIÓN**

De acuerdo a lo establecido como objetivo general; evaluar el pavimento rígido aplicando el método evaluación del pavimento rígido aplicando el PCI en el Jr. Diego Ferrer, Huaraz, Ancash, se ha logrado obtener como resultado que la evaluación de las losas del pavimento rígido del Jr. Diego Ferrer de la ciudad de Huaraz, Ancash, según el método del PCI, el promedio de las unidades de análisis se encuentra en un estado MALO.

Estos resultados se asemejan a lo encontrado por Discover (2020). En el condado de Waseca en Minnesota de USA, se ejecutó una evaluación de las vías pavimentadas usando un vehículo Road Tester 3000, el que recogió los datos del deterioro de la superficie, para luego su clasificación del PCI, la muestra fue de 40 millas, que es responsabilidad del mantenimiento. Los resultados obtenidos por el PCI fueron de 65.7 que representa a un estado o condición Regular, este índice se refleja porque desde al año 2020 se han ido mejorando las vías de Waseca Streets, y los mapas del PCI también se han ido actualizando proporcionando mejores condiciones del PCI. Concluyen en su investigación, que la información que proporciona el PCI de las vías pavimentadas de la ciudad son una valiosa herramienta para planificar y presupuestar el mantenimiento de las vías. Arias (2104). La finalidad de esta investigación fue la evaluación de tres rutas del cantón de Alajuela en Costa Rica, realizaron un diagnóstico que consistió en el inventario vial, determinando la ubicación y en qué estado se encuentran, también utilizaron el software QuantumGIS, para sus trabajos topográficos, según la metodología del PCI sus resultados fueron que el sistema de drenaje es deficiente en las tres rutas, escasa señalización y falta de aceras, el sector Pasito presenta una condición pobre, La calle conector Rosales – Cooxata tiene una condición seria, el sector Pueblo Nuevo y Barrio San José presentan condiciones de Pobre, buena y seria. Los investigadores concluyen proponer medidas de rehabilitación para los tramos de condiciones pobres y fallidos.

La infraestructura vial es una parte importante del desarrollo de las ciudades, debido al excesivo pasatiempo comercial de los últimos tiempos, por lo que la mercadería debe movilizarse correctamente. Dentro de esta infraestructura vial se

encuentran las aceras, elemento que para su diseño debe contar con los registros esenciales, que incluye: tipo de suelo de subrasante, estudios de tránsito, materiales considerados para la construcción de su estructura y drenaje. Estos parámetros deben decidirse con éxito; en cualquier otro caso, se pueden obtener espesores de capa insuficientes, lo que provocaría que el pavimento proyectado no alcance más su vida útil configurada (Barreto et al., 2018).

De acuerdo a lo establecido como objetivo específico determinar los diferentes tipos de fallas existentes en las cuadras en el Jr. Diego Ferrer, Huaraz, Ancash, los tipos de fallas que se presenta se tiene daño grieta esquina, luego se presentó daño sello de juta, además dentro del análisis se presentó el daño desnivel carril/Berma, luego del análisis se presentó daño grieta lineal, luego se tiene a los daños de grieta lineal, además de parche grande, sumado a ello el daño parcheo pequeño, además del daño pulimento de agregados. Por lo tanto, de acuerdo al manual y haciendo los cálculos, el PCI resulta 32, y el rango de calificación de esta unidad es MALO.

Estos resultados se asemejan a lo encontrado por Casillas y Braham (2021), Esta investigación denominada “Cuantificando la preservación de pavimentos en Arkansas” en los Estados Unidos, menciona que las medidas de preservación y durabilidad de pavimentos ha sido reconocida como una solución necesaria. Este estudio propone un novedoso método que define el análisis de la preservación del pavimento como una red para el PCI, con un cambio de la vida útil con sus siglas en inglés (RSL), desarrollaron un nuevo tipo de medida denominada tPRES que permite medir o calcular el tiempo para su mantenimiento, se aplicó a la red de carreteras de Arkansas DOT y sus siglas (ArDOT), se usó para determinar la preservación de los pavimentos con el método tPRES. En este estudio se realizaron dos análisis el primero con el tratamiento de mantenimiento y rehabilitación tradicional del ArDOT. En sus resultados obtuvieron que con la aplicación del tPRES resultó 92 años, el segundo análisis se realizó con un plan de tratamiento optimizado con técnicas más diversas y se le aplicó el tPRES y dio un resultado de 46 años, concluyendo que el mantenimiento de las carreteras

puede generar ahorros anuales de 146 millones de dólares en el primero y 155 millones de dólares en el segundo caso.

En los últimos años ha existido un constante agravio de la población por el mal estado de las aceras de las carreteras del país. La presencia de deterioros y fallas tempranas se ha convertido en uno de los problemas fundamentales en el diseño de pavimentos, considerando que el deterioro se toma en consideración dentro de los diseños mediante la aplicación de modelos de desempeño global que no olvidan las condiciones y esto hace que sea difícil predecir con mayor precisión cuándo fallará el pavimento (Montes et al., 2021).

De acuerdo a lo establecido como objetivo específico realizar una evaluación superficial de fallas determinadas aplicando la metodología del PCI, se basa en 7 unidades analizadas correspondientes a 05 unidades de 22 losas cada una y 02 unidades de 23 losas cada una, y una desviación estándar de 15 para pavimentos rígidos.

Estos resultados se asemejan a lo encontrado por Amr, Sherif y Emad (2021). El artículo científico titulado “Un modelo de regresión del índice de condición del pavimento simplificado para la evaluación del pavimento” realizado en Mansoura. Egipto. En este estudio propusieron un modelo de evaluación de pavimentos, con la aplicación de las metodologías para la evaluación superficial de pavimentos aplicaron el índice de condición de pavimento PCI y el El Índice Internacional de Rugosidad (IRI) y con el uso de la base de datos del rendimiento de pavimentos a largo plazo con sus siglas LTPP, los investigadores desarrollaron un modelo de regresión simplificado que vincule al Índice de Condición del Pavimento, PCI con el Índice Internacional de Rugosidad IRI, para el cálculo del PCI se usaron las medidas de las fallas de los pavimentos de 1,448 secciones la base de datos de rendimiento de pavimento a largo plazo (LTPP) de los estudios específicos de los pavimentos (SPS) y los estudios generales de pavimentos (GPS), que son los datos de 12,744 puntos. Para el estudio utilizaron 1208 unidades muestrales con 10,868 puntos con los que desarrollaron el modelo, para validar el modelo utilizaron 240 secciones con 1,876 puntos resultando el 0995, y el  $R^2$  igual a

0.992. Concluyen que su modelo basado en la metodología IRI y que equivalente al PCI.

Tradicionalmente, en la realización de selecciones asociadas a la conservación de pavimentos en portador, interviene el instinto humano y el disfrute, cuya subjetividad está expuesta a múltiples factores de incertidumbre. Hoy es necesario incorporar estrategias y equipos que ayuden y optimicen el sistema, dada la gran cantidad de cosas a recordar (análisis multicriterio), la variedad de opciones de respuesta que existen, el precio de los errores que son capaz de dedicar y la velocidad que se requiere en las elecciones (Beltrán y Romo, 2014).

Actualmente, en ejercicio contemporáneo para resolver problemas de drenaje en áreas de la ciudad está el desarrollo de pavimentos con drenaje sustentable dado que, frente a la mejora de la viabilidad regular con estándares tradicionales en el diseño y creación de sus superficies rodantes, las numerosas cuestiones que surgen desde el drenaje no se resuelven (Guerra y Guerra, 2020).

## V. CONCLUSIONES.

**Primera:** Se determinó 07 unidades analizadas correspondientes a 05 unidades de 22 losas cada una y 02 unidades de 23 losas cada una, de la misma manera y una desviación estándar de 15 para pavimentos rígidos. determinándose los diferentes tipos de fallas existentes en el Jr. Diego Ferrer, de la progresiva 0+000 hasta 0+280.8 ml. Huaraz, Ancash, los tipos de fallas encontradas son: grieta de esquina con 56%, daño sello de juta con 59%, además dentro del análisis se presentó el daño desnivel carril/ berma con 18%, luego del análisis se presentó daño grieta lineal con 67%, además de parcheo grande con 77%, sumado a ello el daño parcheo pequeño con 28%, además del daño pulimento de agregados con 46%.

**Segunda :** Con el método de evaluación del pavimento rígido aplicando el PCI en el pavimento rígido del Jr. Diego Ferrer, Huaraz, Ancash, se ha logrado obtener como resultado que la unidad uno presenta una clasificación de MALO, la unidad de análisis dos tiene una calificación de MALO, la unidad de análisis tres presenta una calificación de REGULAR, la unidad de análisis cuatro presenta una calificación de MALO, la unidad de análisis cinco presenta una calificación de MALO, la unidad de análisis seis presenta una calificación FALLADO y la unidad de análisis siete presenta una calificación de MUY MALO. el promedio de las siete las unidades de análisis se encuentran en un estado **MALO**.

**Tercera:** Se plantea las alternativas REHABILITACIÓN, teniendo en cuenta un reemplazo de la carpeta de rodadura según la norma ASTM 6433, con la metodología PCI.

## **VI. RECOMENDACIONES.**

- Se debe programar la evaluación periódica de las vías, monitoreando la evolución de las patologías y las fallas a corto tiempo y planificar los trabajos preventivos.
- Realizar más estudios sobre el tema incorporando más factores como son el clima de la zona.
- Tener un registro o inventario de construcción de las vías, con el tiempo o antigüedad de construcción de las estructuras, las dimensiones de los paños, inclemencias del tiempo (temperatura, humedad, precipitaciones pluviales) y tráfico o uso.
- Se plantea una alternativa de REHABILITACION, teniendo en cuenta un reemplazo de la carpeta de rodadura según la norma ASTM 6433, con la metodología PCI.
- Se plantea realizar la REHABILITACIÓN, teniendo en cuenta un reemplazo de la carpeta de rodadura para mejorar la transividad de los vehículos.

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# **ANEXOS**

## ANEXO 1

### 1. MANUAL DE DAÑOS

Calidad de tránsito (ride quality): Cuando se realiza la inspección de daños, debe evaluarse la calidad de tránsito (o calidad del viaje) para determinar el nivel de severidad de daños tales como las corrugaciones y el cruce de vía férrea. A continuación, se presenta una guía general de ayuda para establecer el grado de severidad de la calidad de tránsito.

L (Low: Bajo): Se perciben las vibraciones en el vehículo (por ejemplo, por corrugaciones) pero no es necesaria una reducción de velocidad en aras de la comodidad y la seguridad; los abultamientos o hundimientos individuales causan un ligero rebote del vehículo, pero creando poca incomodidad.

M (Medium: Medio): Las vibraciones en el vehículo son significativas y se requiere alguna reducción de la velocidad en aras de la comodidad y la seguridad; los abultamientos o hundimientos individuales causan un rebote significativo, creando incomodidad.

H (High: Alto): Las vibraciones en el vehículo son tan excesivas que debe reducirse la velocidad de forma considerable en aras de la comodidad y la seguridad; los abultamientos o hundimientos individuales causan un excesivo rebote del vehículo, creando una incomodidad importante o un alto potencial de peligro o daño severo al vehículo.

La calidad de tránsito se determina recorriendo la sección de pavimento en un automóvil de tamaño estándar a la velocidad establecida por el límite legal. Las secciones de pavimento cercanas a señales de detención deben calificarse a la velocidad de desaceleración normal de aproximación a la señal.

### 2. Cálculo del número de Paños o Losas a evaluar

Para el pavimento rígido de la avenida Diego Ferrer de **7,2 m.** de ancho y **280,8 m.** de largo, tendremos:  **$(280,8 / 3,6) \times 2 = 156$**  losas. El número total de unidades de la sección será:

$$N=156/22 = 7,09$$

Como el valor contiene decimales, redondeamos a  $N=7$ , distribuidas en 7 unidades de 22 losas y 2 unidades de 23 losas.

Calculamos ahora el número mínimo de unidades a evaluar con la siguiente fórmula estadística:

$$n = \frac{Nxe^2}{\left(\frac{e^2}{4}\right)(N-1) + \sigma^2}$$

Donde:

$n$  = Número mínimo de unidades a evaluar

$e$  = Error de aceptación aceptable en el PCI

$\sigma$  = Desviación estándar de una unidad a otra dentro de la misma sección, se asume un valor de 15 para pavimentos rígidos.

$N$  = Número total de unidades en la sección.

Reemplazando valores:

$$n = \frac{7 \times 15^2}{\left(\frac{5^2}{4}\right)(7-1) + 15^2} = 6$$

Máximo número de deterioros permitidos:

$$m=1+(9/98) (100-VDM) \leq 10$$

en nuestra unidad el  $VDM=40$

reemplazando en la fórmula = 6,51

## 1. Cálculo del PCI de una Unidad

- Evaluar las losas visualmente y llenar las fichas en campo.
- De acuerdo a cada daño y severidad sumar las losas o paños.
- Para la obtención de la densidad, dividir el número de losas entre el número total de losas de la unidad (22) y multiplicarlo por 100. Así se obtiene la densidad porcentual.

- d) Determinar los valores deducidos para cada combinación de tipo de deterioro y nivel de severidad utilizando los ábacos correspondientes a cada daño encontrado.
- e) Para el cálculo del máximo valor deducido, llenamos una tabla con los máximos valores encontrados de todos los daños, y como se calculó un máximo de 7 daños, llenamos con 2 los demás valores y se totalizan los valores, y se llevan esos valores al ábaco correspondiente para así obtener el máximo VDC.
- f) El PCI de la unidad se calcula de acuerdo a la siguiente fórmula:

$$PCI=100-\text{Max. VDC.}$$

- g) El resultado se lleva a los rangos de calificación, luego de todos los resultados de las unidades utilizamos la siguiente fórmula para obtener la evaluación de todo el pavimento:

$$PCI_s = \frac{\sum_{i=1}^N PCI_i}{N}$$

Reemplazando valores:

$$PCI = \frac{UNIDAD 1 + UNIDAD 2 + UNIDAD 3 + UNIDAD 4 + UNIDAD 5 + UNIDAD 6 + UNIDAD 7}{7}$$

$$PCI = \frac{32 + 28 + 45 + 45 + 31 + 9 + 21}{7}$$

Por lo tanto, el valor del PCI es 30

Y la calificación del PCI para todo el tramo evaluado es: **MALO**

## ANEXO 2:

### Unidad 01

#### Ficha de Recolección de datos en campo

**Tabla 31.** Ficha de Recolección de datos en campo

EXPLORACIÓN DE LA CONDICIÓN POR UNIDAD DE MUESTREO												
<b>UBICACIÓN</b>					<b>UNIDAD DE MUESTREO</b>							
Av. Diego Ferre, Huaraz, Ancash					01							
<b>EVALUADA POR</b>					<b>NÚMERO DE LOSAS</b>							
Jairo Fernando Cuentas Checa					22							
<b>VALIDADA POR</b>					<b>FECHA</b>							
					14 de Agosto de 2021							
<b>No</b>	<b>Daño</b>			<b>No</b>	<b>Daño</b>			<b>No</b>	<b>Daño</b>			
21	Blow up / Buckling.			27	Desnivel Carril / Berma.			34	Punzonamiento.			
22	Grieta de esquina.			28	Grieta lineal.			35	Cruce de vía férrea			
23	Losas dividida.			29	Parcheo (grande).			36	Desconchamiento			
24	Grieta de durabilidad "D".			30	Parcheo (pequeño)			37	Retracción			
25	Escala.			31	Pulimento de agregados			38	Descascaramiento de esquina			
26	Sello de junta.			32	Popouts			39	Descascaramiento de junta			
				33	Bombeo							
<b>Daño</b>	<b>Severidad</b>	<b>No. Losas</b>	<b>Densidad (%)</b>	<b>Valor deducido</b>	<b>ESQUEMA</b>							
22	L	04	18%	16	29 L	31 M 26 L	31 M 28 M 29 L 26 L	31 L 28 L	31 H 22 M 28 H 27 M	31 L 29 L 27 L 26 L 22 L 28 L	31 M 22 M 29 M 27 L 26 M 30 L	31 M 28 H 22 M 27 H 26 L 30 L
22	M	07	32%	40								
26	L	10	45%	2								
26	M	03	14%	4								
27	L	05	23%	2								
27	M	02	9%	4								
27	H	02	9%	8								
28	L	02	9%	4	22 L 29 L 26 L	29 L	31 L 26 L	31 M 28 M 26 L 29 H 22 L 27 L	31 H 29 L 30 H 28 M 22 M 26 L	31 L 27 H 28 M 22 M 26 L	31 M 29 M 26 M 27 L	31 M 29 M 26 M 27 L
28	M	08	36%	22								
28	H	02	9%	17								
29	L	09	41%	16								
29	M	02	9%	4								
29	H	02	9%	15								
30	L	01	5%	0	29 L	31 L 26 L	31 M 28 M 26 M	31 M 28 M 29 H 22 L 27 L	31 M 28 M 22 M 27 M 26 L	31 L 29 L	31 H 28 M 22 M 29 L 30 M	31 H 28 M 22 M 29 L 30 M
30	M	01	5%	0								
30	H	01	5%	2								
31	L	06	27%	4								
31	M	09	41%	6								
31	H	03	14%	2								

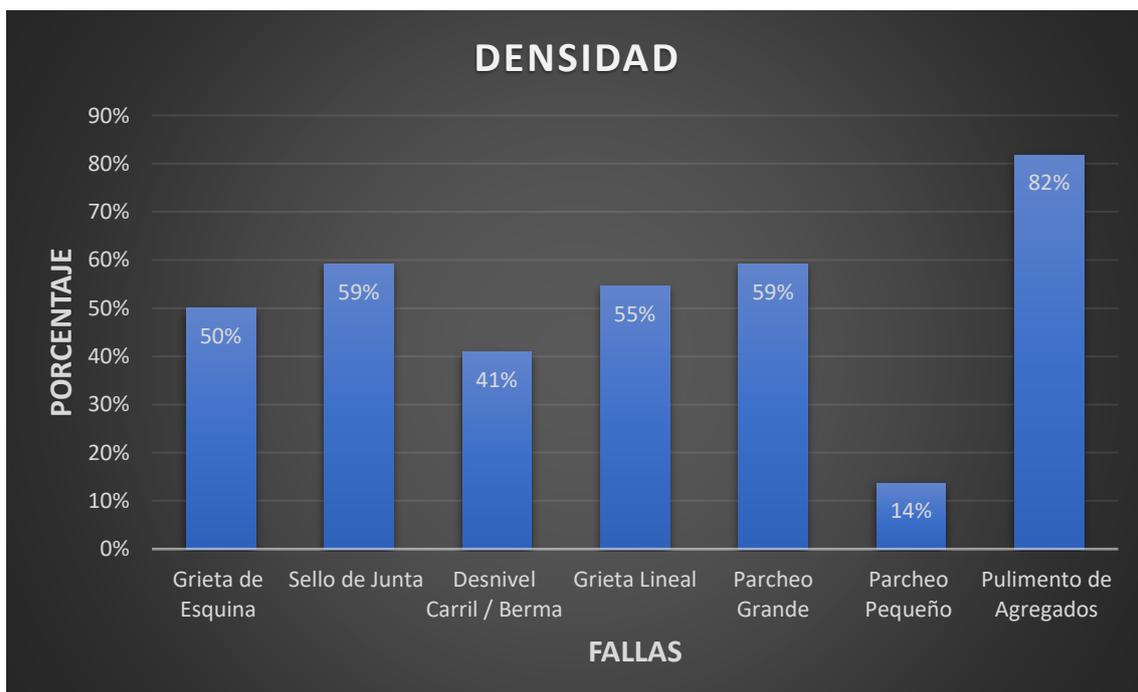
Fuente: Manual del PCI (2012)

## Memoria de Cálculo de la Densidad y el Valor Deducido

Tabla 32: Cálculo de la densidad y el valor deducido

UNIDAD 01		PAÑOS = 22		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	4	18%	16
	M	7	32%	40
	H	0	0%	0
26	L	10	45%	2
	M	3	14%	4
	H	0	0%	0
27	L	5	23%	2
	M	2	9%	4
	H	2	9%	8
28	L	2	9%	4
	M	8	36%	22
	H	2	9%	17
29	L	9	41%	16
	M	2	9%	4
	H	2	9%	15
30	L	1	5%	0
	M	1	5%	0
	H	1	5%	2
31	L	6	27%	4
	M	9	41%	6
	H	3	14%	2

Fuente: Elaboración propia

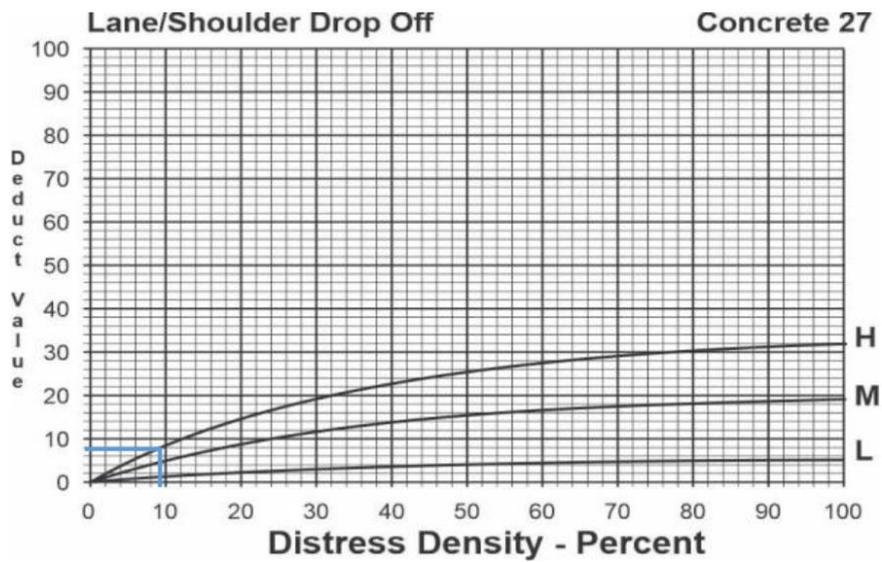
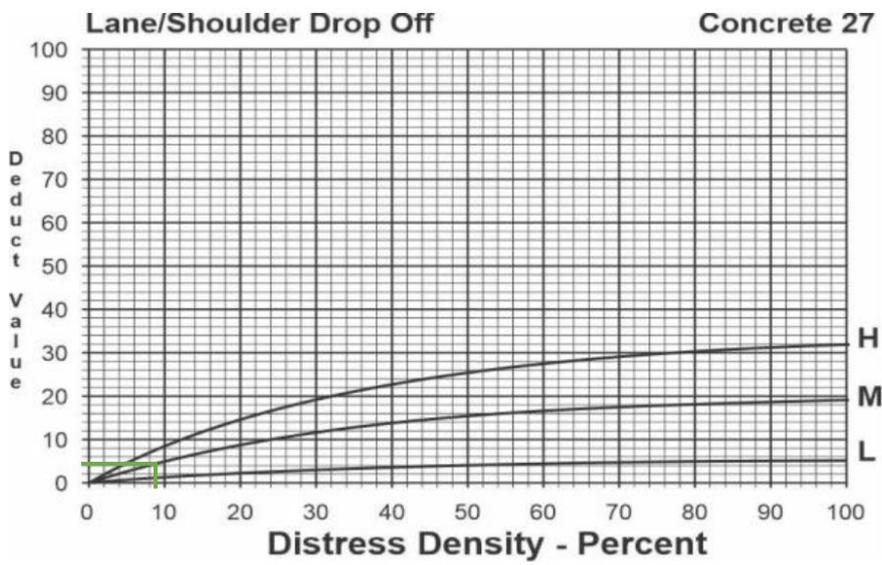
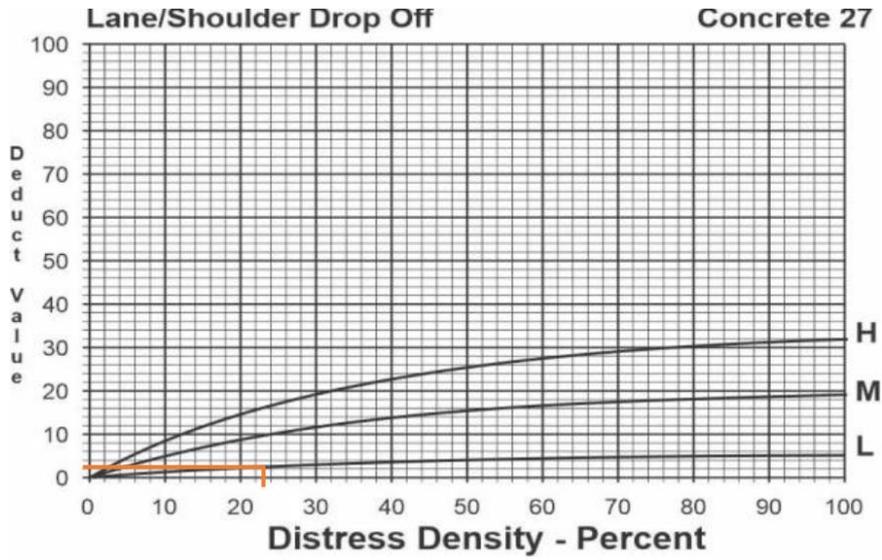


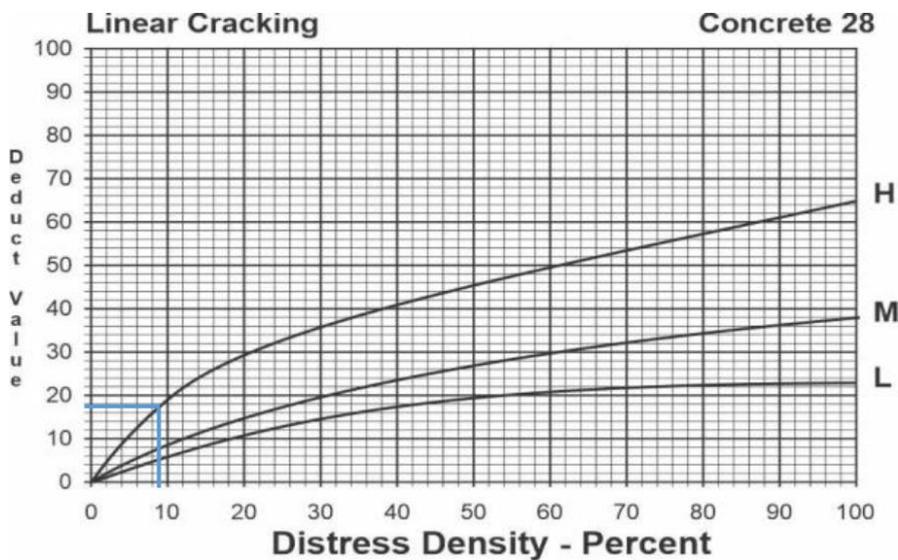
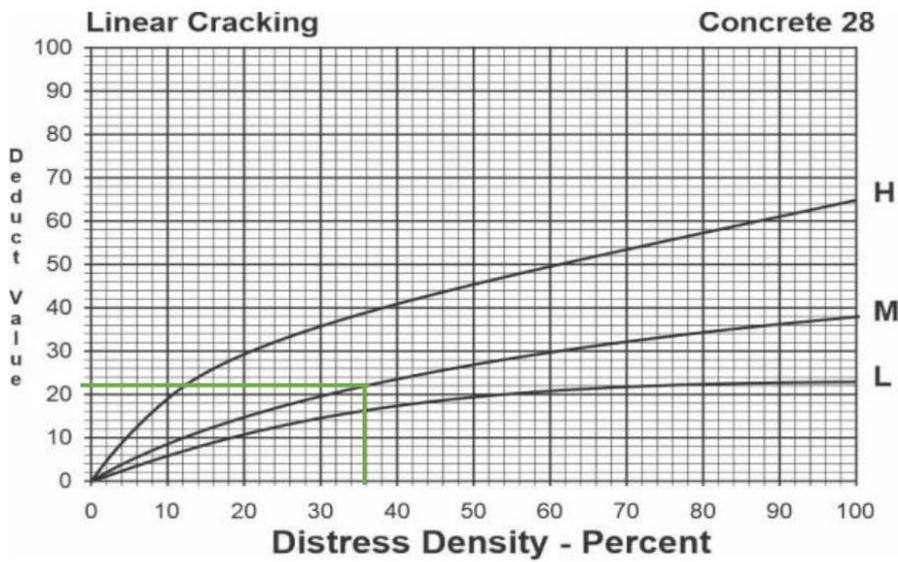
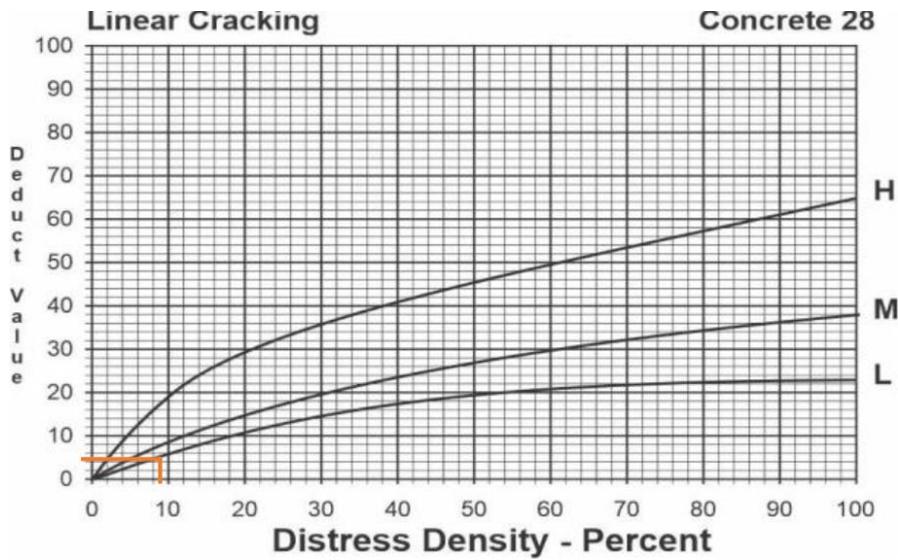


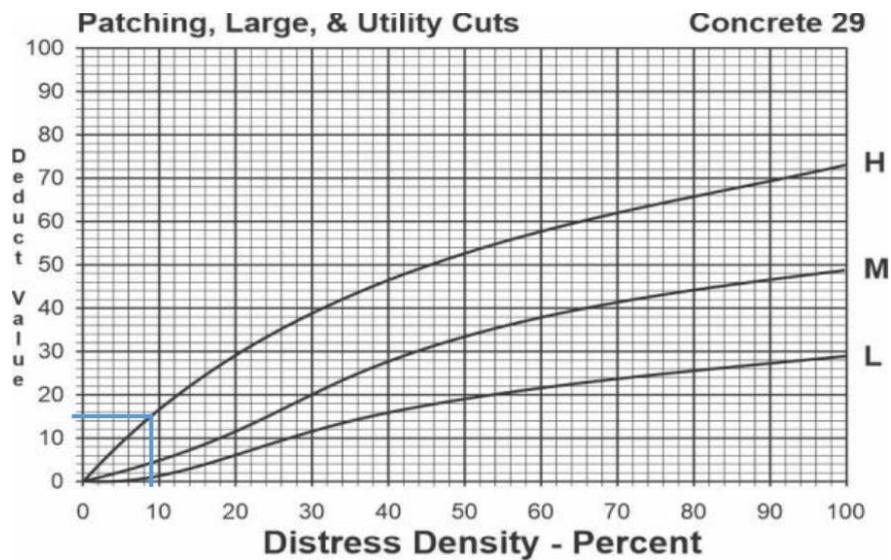
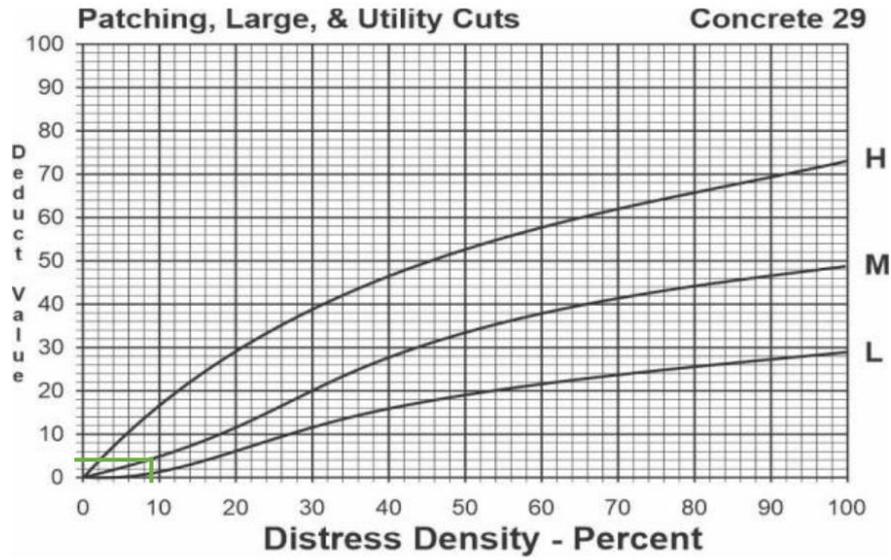
Joint seal damage is not rated by density. The severity of the distress is determined by the sealant's overall condition for a particular sample unit.

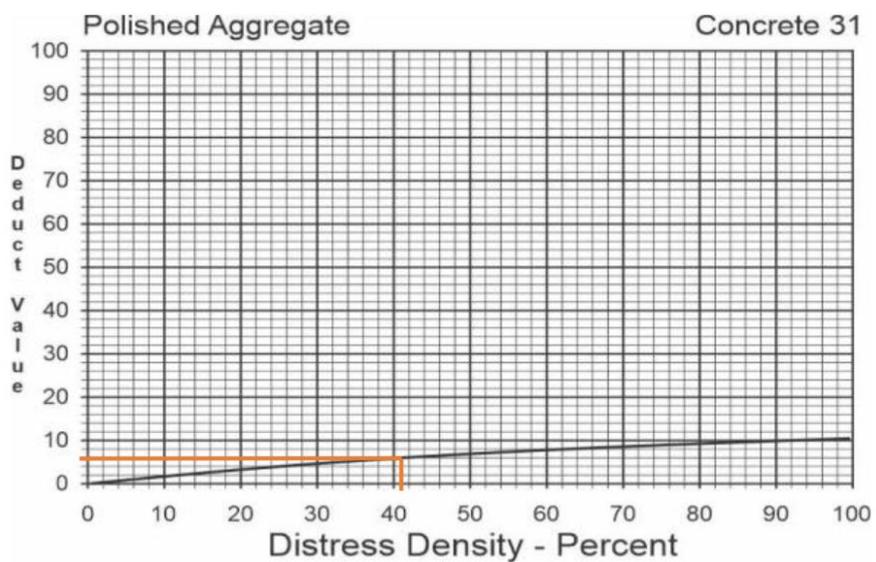
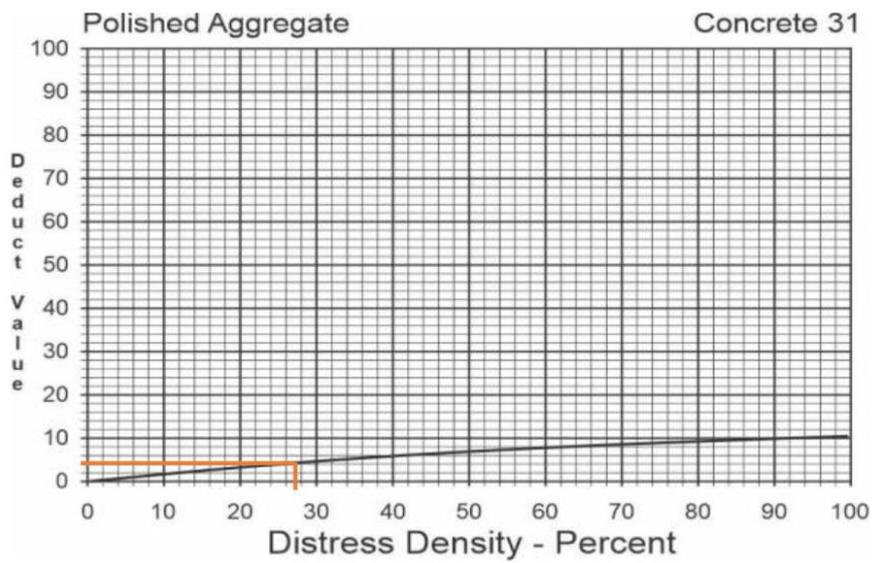
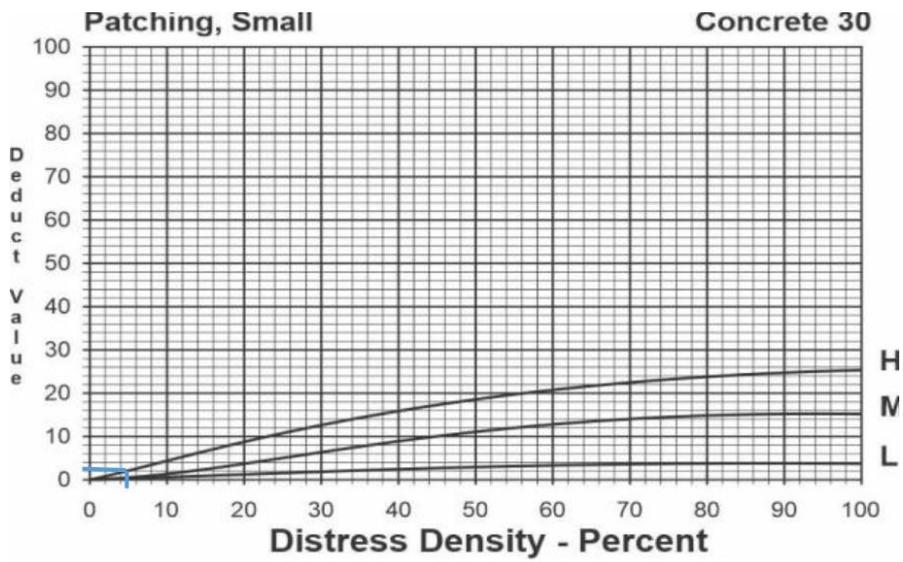
the deduct values for the three levels of severity are:

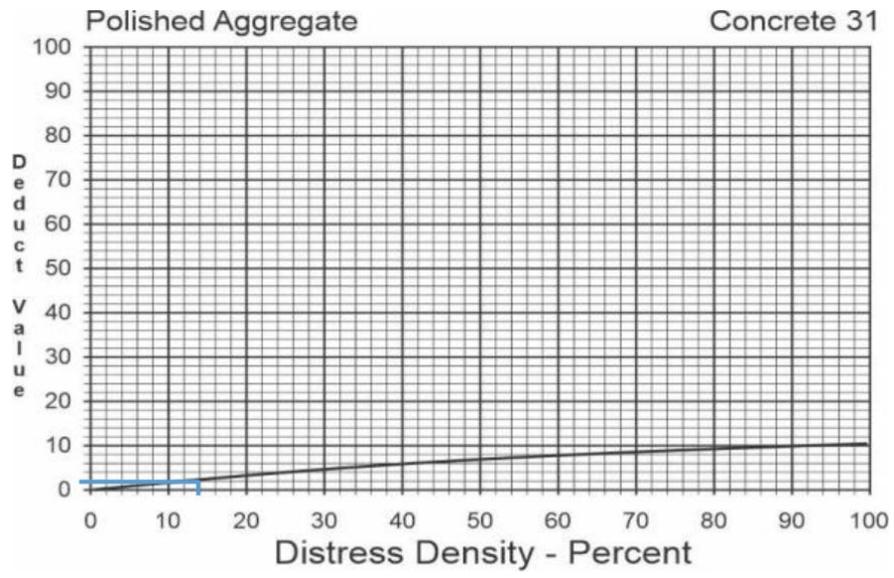
LOW	2 points
MEDIUM	4 points
HIGH	8 points











Fuente: Manual del PCI (2012)

## Memoria de Cálculo de la Densidad y el Valor Deducido corregido

### Memoria de Cálculo del Valor Deducido Corregido

Tabla 33: Cálculo del máximo valor deducido (VDC)

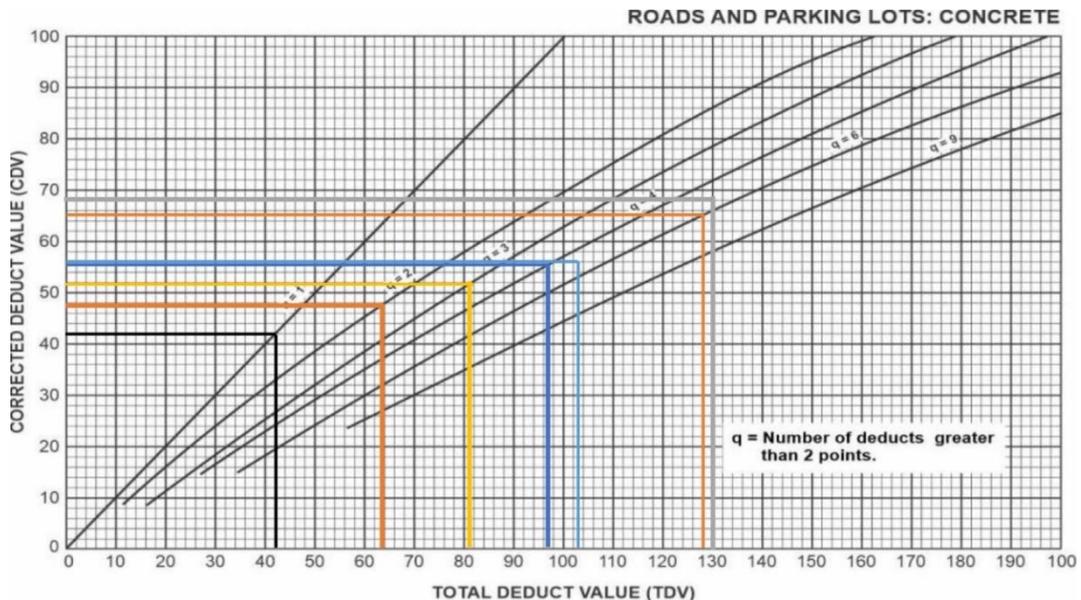
N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	40	22	17	16	16	15	4	130	7	68
2	40	22	17	16	16	15	2	128	6	65
3	40	22	17	16	16	2		113	5	56
4	40	22	17	16	2			97	4	55
5	40	22	17	2				81	3	52
6	40	22	2					64	2	48
7	40	2						42	1	42

Max. VDC=68

PCI = 100-Max. VDC = 32

Fuente: Elaboración propia

Figura 10: Cálculo del máximo valor deducido (VDC)



Fuente: Manual de PCI (2012)

### Calificación de la condición del pavimento

Tabla 34: Cálculo de la condición del pavimento

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

**LA CALIFICACIÓN DEL PCI ES MALO**

## Unidad 02

### Ficha de Recolección de datos en campo

**Tabla 34.** Ficha de Recolección de datos en campo

EXPLORACIÓN DE LA CONDICIÓN POR UNIDAD DE MUESTREO																																																																																													
<b>UBICACIÓN</b>					<b>UNIDAD DE MUESTREO</b>																																																																																								
<i>Av. Diego Ferre, Huaraz, Ancash</i>					02																																																																																								
<b>EVALUADA POR</b>					<b>NÚMERO DE LOSAS</b>																																																																																								
<i>Jairo Fernando Cuentas Checa</i>					22																																																																																								
<b>VALIDADA POR</b>					<b>FECHA</b>																																																																																								
					<i>14 de Agosto de 2021</i>																																																																																								
<b>No</b>	<b>Daño</b>				<b>No</b>	<b>Daño</b>				<b>No</b>	<b>Daño</b>																																																																																		
21	Blow up / Buckling.				27	Desnivel Carril / Berma.				34	Punzonamiento.																																																																																		
22	Grieta de esquina.				28	Grieta lineal.				35	Cruce de vía férrea																																																																																		
23	Losa dividida.				29	Parcheo (grande).				36	Desconchamiento																																																																																		
24	Grieta de durabilidad "D".				30	Parcheo (pequeño)				37	Retracción																																																																																		
25	Escala.				31	Pulimento de agregados				38	Descascaramiento de esquina																																																																																		
26	Sello de junta.				32	Popouts				39	Descascaramiento de junta																																																																																		
					33	Bombeo																																																																																							
<b>Daño</b>	<b>Severidad</b>	<b>No. Losas</b>	<b>Densidad (%)</b>	<b>Valor deducido</b>	<b>ESQUEMA</b>																																																																																								
22	L	03	14%	12	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>31 L</td> <td>31 L</td> <td>31 M</td> <td>31 L</td> <td>31 L</td> <td>31 L</td> <td>31 L</td> <td>31 L</td> </tr> <tr> <td>22 L</td> <td>29 H</td> <td>28 M</td> <td>31 L</td> <td>22 H</td> <td>29 L</td> <td>29 L</td> <td>29 L</td> </tr> <tr> <td>28 M</td> <td>28 M</td> <td>29 L</td> <td>28 M</td> <td>28 H</td> <td>28 M</td> <td>28 L</td> <td>28 L</td> </tr> <tr> <td></td> <td>26 L</td> <td>30 H</td> <td>29 L</td> <td>26 M</td> <td>26 L</td> <td>26 L</td> <td>26 L</td> </tr> <tr> <td></td> <td></td> <td>26 L</td> <td>26 L</td> <td>29 L</td> <td>29 L</td> <td>27 L</td> <td>27 L</td> </tr> <tr> <td></td> <td></td> <td>27 L</td> <td>27 L</td> <td>30 L</td> <td>30 L</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	31 L	31 L	31 M	31 L	31 L	31 L	31 L	31 L	22 L	29 H	28 M	31 L	22 H	29 L	29 L	29 L	28 M	28 M	29 L	28 M	28 H	28 M	28 L	28 L		26 L	30 H	29 L	26 M	26 L	26 L	26 L			26 L	26 L	29 L	29 L	27 L	27 L			27 L	27 L	30 L	30 L																																										
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22	M	05	23%	32	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>31 M</td> <td>31 L</td> <td>31 L</td> <td>31 L</td> <td>31 L</td> <td>29 L</td> <td>31 L</td> <td></td> </tr> <tr> <td>27 M</td> <td>29 L</td> <td>28 L</td> <td>31 L</td> <td>29 L</td> <td>30 L</td> <td>29 L</td> <td></td> </tr> <tr> <td>28 M</td> <td>28 M</td> <td>22 L</td> <td>28 M</td> <td>28 M</td> <td>28 L</td> <td>28 L</td> <td></td> </tr> <tr> <td>29 M</td> <td>30 H</td> <td>26 M</td> <td>26 L</td> <td>22 M</td> <td>28 L</td> <td>28 M</td> <td></td> </tr> <tr> <td>26 L</td> <td>26 L</td> <td>29 L</td> <td>29 L</td> <td>26 M</td> <td>26 L</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	31 M	31 L	31 L	31 L	31 L	29 L	31 L		27 M	29 L	28 L	31 L	29 L	30 L	29 L		28 M	28 M	22 L	28 M	28 M	28 L	28 L		29 M	30 H	26 M	26 L	22 M	28 L	28 M		26 L	26 L	29 L	29 L	26 M	26 L																																																		
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## Memoria de Cálculo de la Densidad y el Valor Deducido

Tabla 35: Calculo de la densidad y el valor deducido

UNIDAD 02		PAÑOS = 22		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	3	14%	12
	M	5	23%	32
	H	1	5%	13
26	L	14	64%	2
	M	3	14%	4
	H	0	0%	0
27	L	3	14%	2
	M	1	5%	3
	H	0	0%	0
28	L	4	18%	10
	M	15	68%	32
	H	2	9%	17
29	L	17	77%	25
	M	3	14%	7
	H	1	5%	9
30	L	3	14%	1
	M	0	0%	0
	H	2	9%	4
31	L	15	68%	8
	M	4	18%	3
	H	0	0%	0

Fuente: Elaboración propia

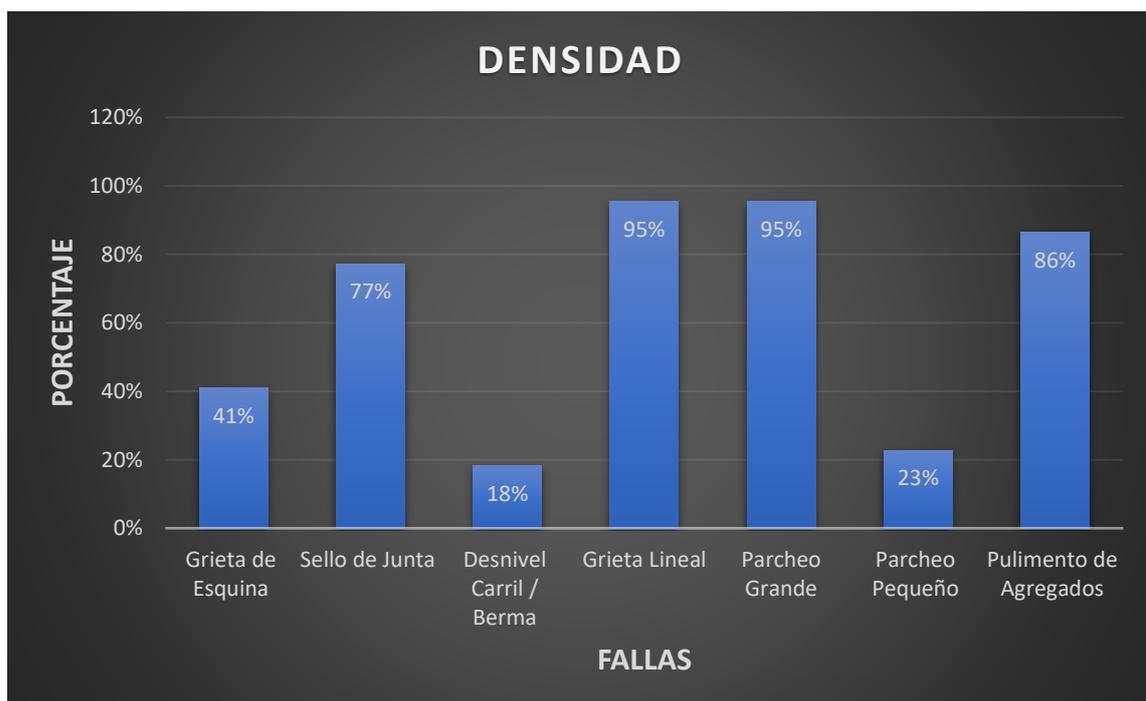
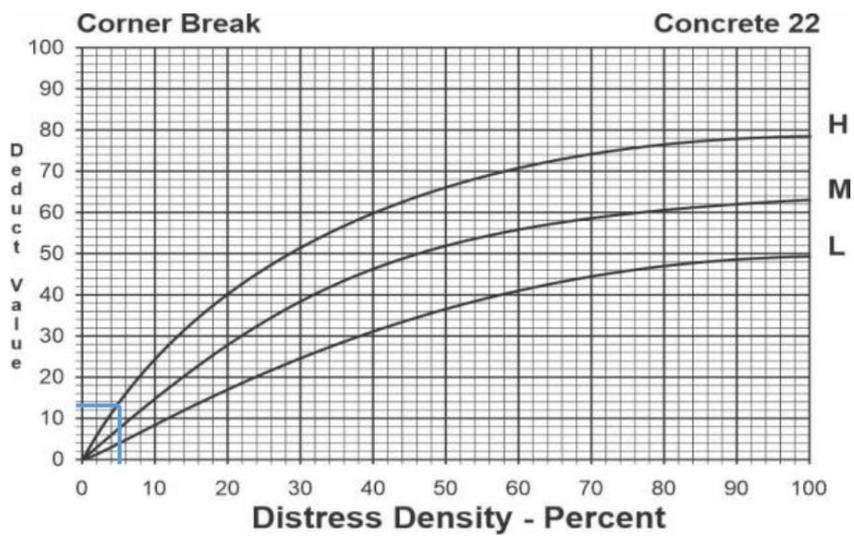
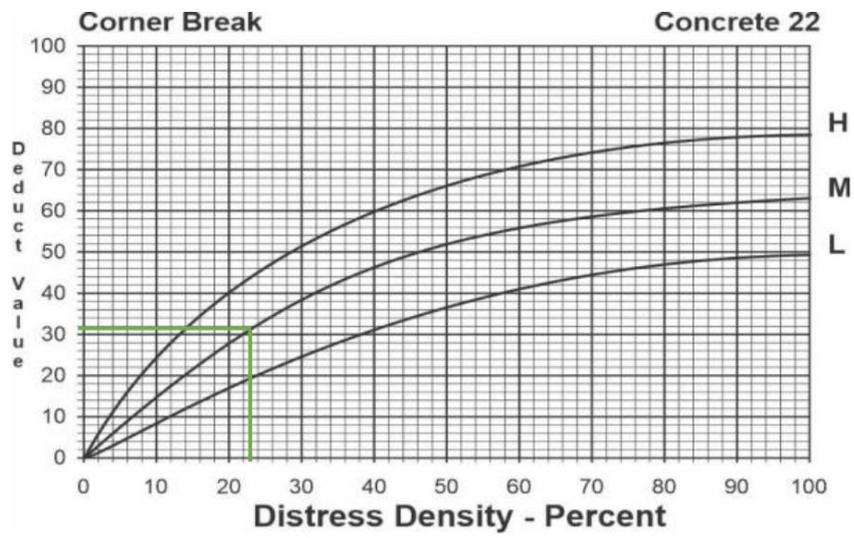
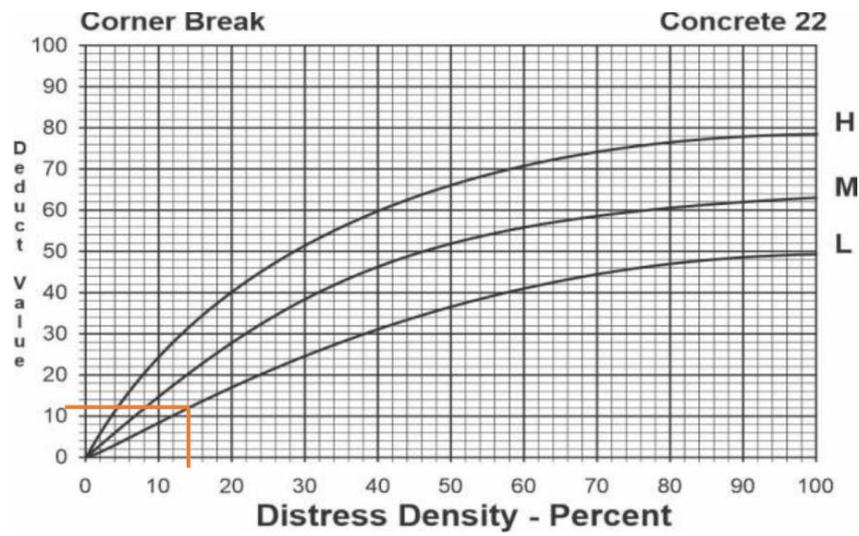


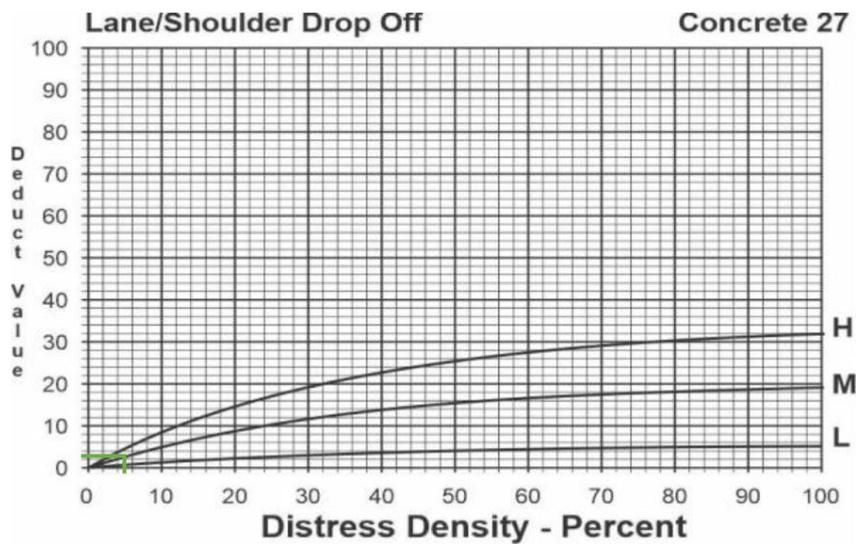
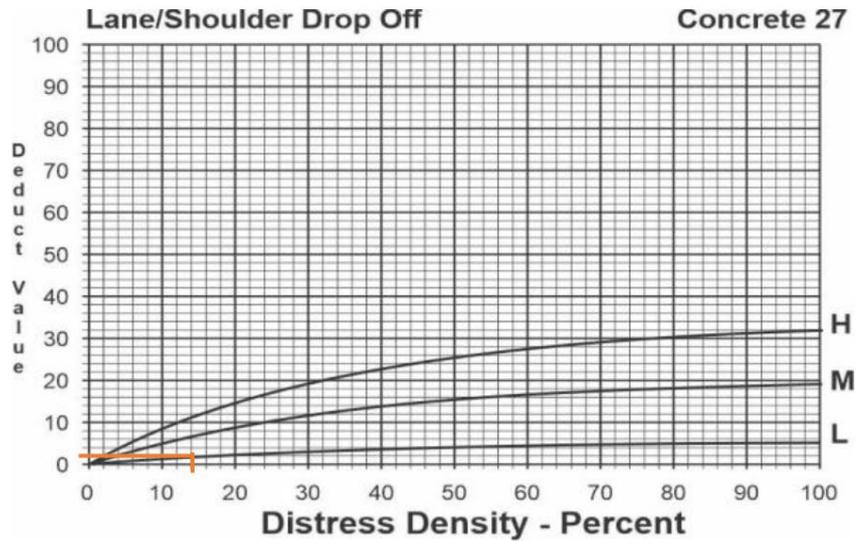
Figura 11. Cálculo del valor deducido

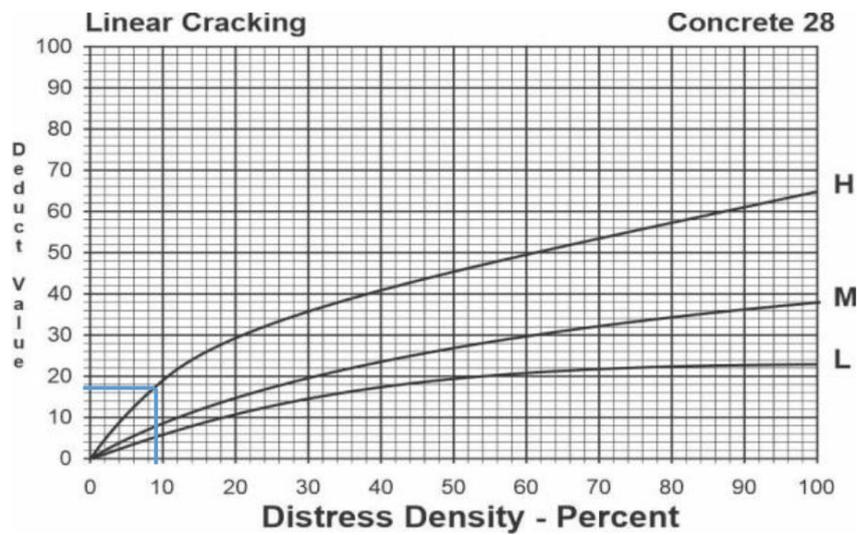
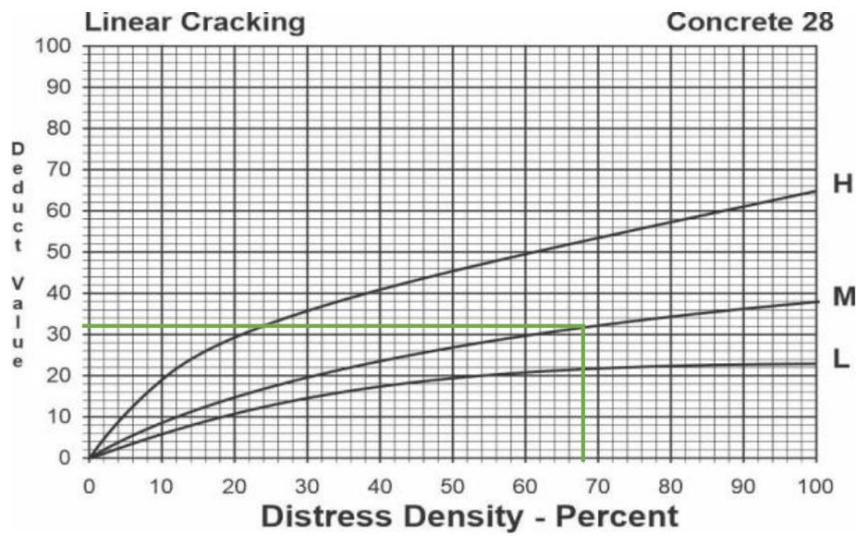
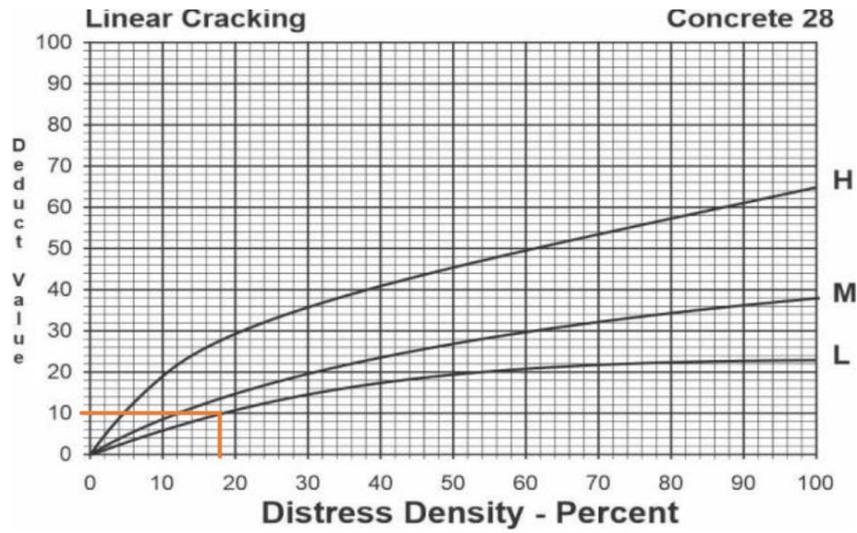


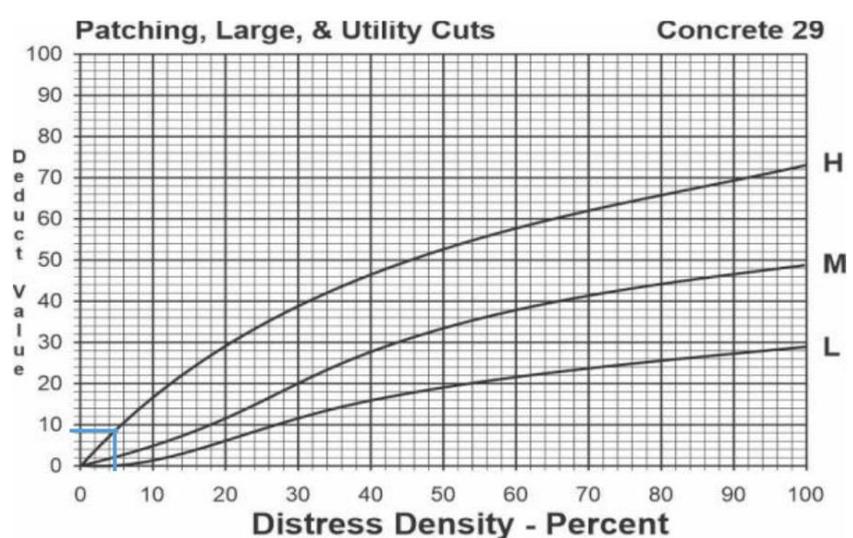
Joint seal damage is not rated by density. The severity of the distress is determined by the sealant's overall condition for a particular sample unit.

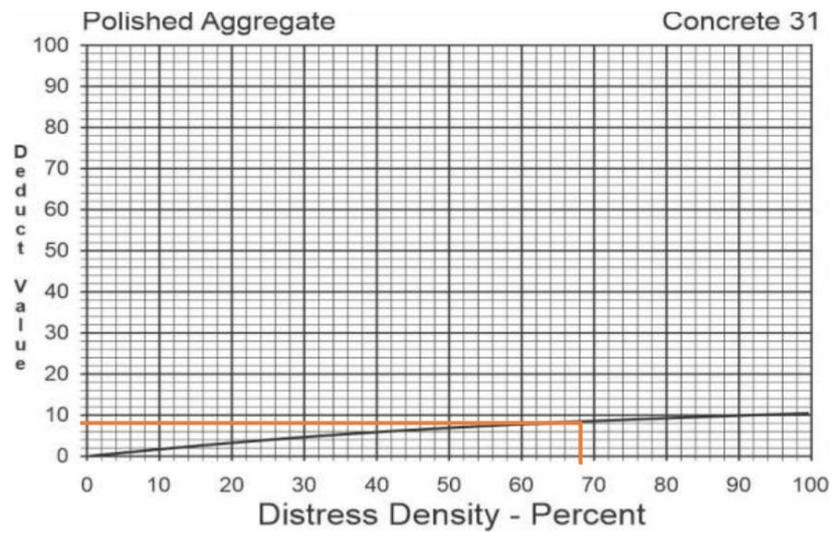
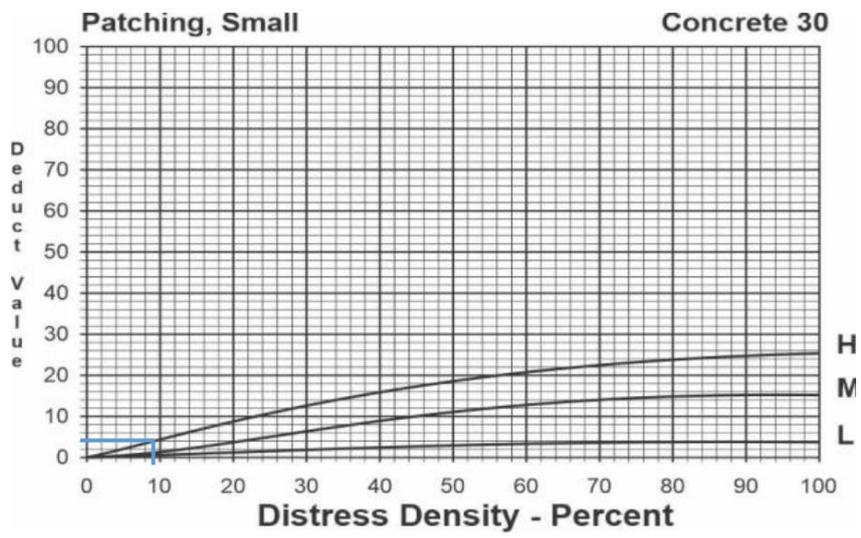
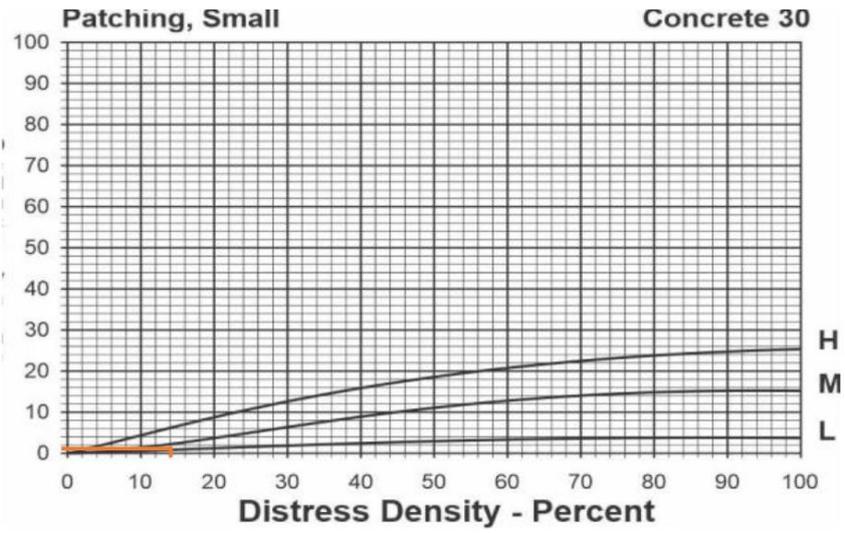
the deduct values for the three levels of severity are:

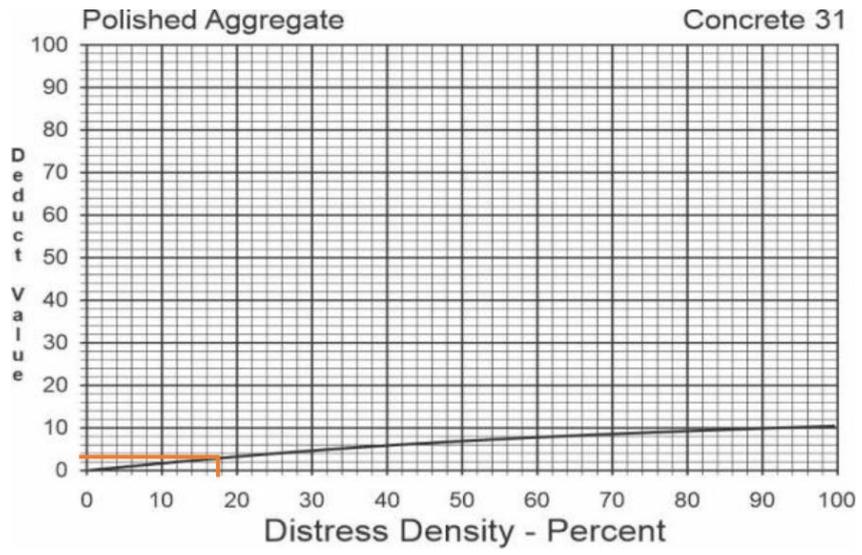
LOW	2 points
MEDIUM	4 points
HIGH	8 points











Fuente: Manual del PCI (2012)

## Memoria de Cálculo de la Densidad y el Valor Deducido corregido

### Memoria de Cálculo del Valor Deducido Corregido

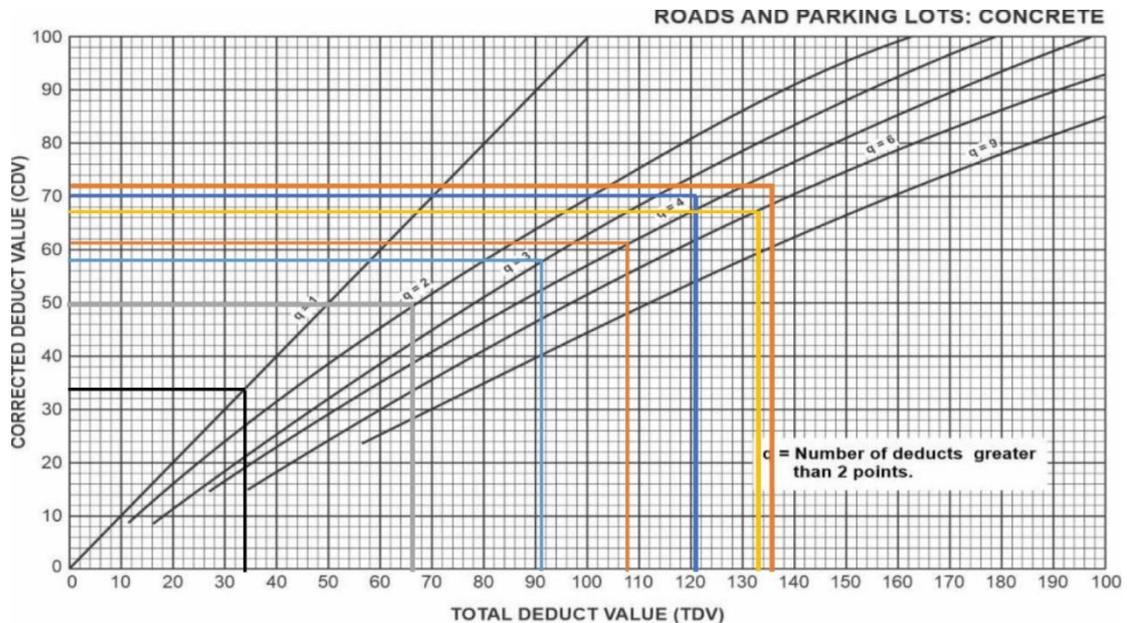
Tabla 36: Cálculo del máximo valor deducido (VDC)

N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	32	32	25	17	13	12	5,1	136,1	7	72
2	32	32	25	17	13	12	2	133	6	67
3	32	32	25	17	13	2		121	5	70
4	32	32	25	17	2			108	4	61
5	32	32	25	2				91	3	68
6	32	32	2					66	2	50
7	32	2						34	1	34

Max. VDC=72

PCI = 100-Max. VDC = 28

Figura 12: Cálculo del máximo valor deducido (VDC)



Fuente: Manual de PCI (2012)

### Calificación de la condición del pavimento

Tabla 37: Calificación de la condición del pavimento.

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

**LA CALIFICACIÓN DEL PCI ES MALO**

### Unidad 03

**Tabla 38:** Ficha de recolección de datos en campo

#### Ficha de Recolección de datos en campo

| EXPLORACIÓN DE LA CONDICIÓN POR UNIDAD DE MUESTREO |                            |                  |                          |                       |   |  
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| <b>EVALUADA POR</b>                                |                            |                  |                          |                       | <b>NÚMERO DE LOSAS</b>  |  
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| <b>VALIDADA POR</b>                                |                            |                  |                          |                       | <b>FECHA</b>  |  
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| 21   | Blow up / Buckling.        | 27               | Desnivel Carril / Berma. | 34                    | Punzonamiento.  |  
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| 22   | Grieta de esquina.         | 28               | Grieta lineal.           | 35                    | Cruce de vía férrea   |  
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| 23   | Losas dividida.            | 29               | Parqueo (grande).        | 36                    | Desconchamiento   |  
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| 24   | Grieta de durabilidad "D". | 30               | Parqueo (pequeño)        | 37                    | Retracción  |  
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| 25   | Escala.                    | 31               | Pulimento de agregados   | 38                    | Descascaramiento de esquina   |  
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| 26   | Sello de junta.            | 32               | Popouts                  | 39                    | Descascaramiento de junta   |  
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|  |                            | 33               | Bombeo                   |                       |   |  
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   | 28   | M    | 10   | 45%  | 25   | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>31 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>31 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> </tr> <tr> <td>29 M</td> <td>28 L</td> <td>28 M</td> <td>28 M</td> <td>28 M</td> <td>29 L</td> <td>28 M</td> </tr> <tr> <td>29</td> <td>L</td> <td>21</td> <td>95%</td> <td>28</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>30 L</td> <td rowspan="2" style="text-align: center;">26 M</td> <td>22 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 M</td> </tr> <tr> <td>27 M</td> <td>26 M</td> <td>26 L</td> <td>26 M</td> <td>26 M</td> <td>26 M</td> <td>26 M</td> </tr> <tr> <td>29</td> <td>M</td> <td>01</td> <td>5%</td> <td>2</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">30 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">22 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 M</td> </tr> <tr> <td>30</td> <td>29 L</td> <td>30 L</td> <td>26 L</td> <td>22 L</td> <td>26 M</td> <td>26 M</td> </tr> <tr> <td>30</td> <td>L</td> <td>09</td> <td>41%</td> <td>2</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">31 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> </tr> <tr> <td>30</td> <td>29 L</td> <td>30 L</td> <td>26 L</td> <td>22 L</td> <td>26 L</td> <td>28 M</td> </tr> <tr> <td>30</td> <td>M</td> <td>01</td> <td>5%</td> <td>0</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">30 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">22 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 M</td> </tr> <tr> <td>31</td> <td>29 L</td> <td>30 L</td> <td>26 M</td> <td>22 L</td> <td>26 M</td> <td>26 M</td> </tr> <tr> <td>31</td> <td>L</td> <td>05</td> <td>23%</td> <td>4</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> </tr> <tr> <td>31</td> <td>29 L</td> <td>30 L</td> <td>26 L</td> <td>22 L</td> <td>26 L</td> <td>28 M</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table></td></tr></table></td></tr></table></td></tr></table></td></tr></table></td></tr></table> | 31 L | 29 L | 31 L  | 29 L   
  | 29 L  | 29 L   | 29 L   | 29 L | 29 L | 29 M | 28 L | 28 M | 28 M | 28 M | 29 L |  
  | 28 M | 29   | L    | 21   | 95%  | 28   | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>30 L</td> <td rowspan="2" style="text-align: center;">26 M</td> <td>22 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 M</td> </tr> <tr> <td>27 M</td> <td>26 M</td> <td>26 L</td> <td>26 M</td> <td>26 M</td> <td>26 M</td> <td>26 M</td> </tr> <tr> <td>29</td> <td>M</td> <td>01</td> <td>5%</td> <td>2</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">30 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">22 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 M</td> </tr> <tr> <td>30</td> <td>29 L</td> <td>30 L</td> <td>26 L</td> <td>22 L</td> <td>26 M</td> <td>26 M</td> </tr> <tr> <td>30</td> <td>L</td> <td>09</td> <td>41%</td> <td>2</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">31 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> </tr> <tr> <td>30</td> <td>29 L</td> <td>30 L</td> <td>26 L</td> <td>22 L</td> <td>26 L</td> <td>28 M</td> </tr> <tr> <td>30</td> <td>M</td> <td>01</td> <td>5%</td> <td>0</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">30 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">22 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 M</td> </tr> <tr> <td>31</td> <td>29 L</td> <td>30 L</td> <td>26 M</td> <td>22 L</td> <td>26 M</td> <td>26 M</td> </tr> <tr> <td>31</td> <td>L</td> <td>05</td> <td>23%</td> <td>4</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> </tr> <tr> <td>31</td> <td>29 L</td> <td>30 L</td> <td>26 L</td> <td>22 L</td> <td>26 L</td> <td>28 M</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table></td></tr></table></td></tr></table></td></tr></table></td></tr></table> | 30 L | 26 M | 22 L | 26 L  
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  | 30 L | 26 L | 22 L | 26 M | 26 M | 30   |   | L    | 09   | 41%  | 2    | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">31 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> </tr> <tr> <td>30</td> <td>29 L</td> <td>30 L</td> <td>26 L</td> <td>22 L</td> <td>26 L</td> <td>28 M</td> </tr> <tr> <td>30</td> <td>M</td> <td>01</td> <td>5%</td> <td>0</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">30 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">22 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 M</td> </tr> <tr> <td>31</td> <td>29 L</td> <td>30 L</td> <td>26 M</td> <td>22 L</td> <td>26 M</td> <td>26 M</td> </tr> <tr> <td>31</td> <td>L</td> <td>05</td> <td>23%</td> <td>4</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> </tr> <tr> <td>31</td> <td>29 L</td> <td>30 L</td> <td>26 L</td> <td>22 L</td> <td>26 L</td> <td>28 M</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table></td></tr></table></td></tr></table> | 29 L  
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  | 30   | M    | 01   | 5%   | 0   | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">30 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">22 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 M</td> </tr> <tr> <td>31</td> <td>29 L</td> <td>30 L</td> <td>26 M</td> <td>22 L</td> <td>26 M</td> <td>26 M</td> </tr> <tr> <td>31</td> <td>L</td> <td>05</td> <td>23%</td> <td>4</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> </tr> <tr> <td>31</td> <td>29 L</td> <td>30 L</td> <td>26 L</td> <td>22 L</td> <td>26 L</td> <td>28 M</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table></td></tr></table> | 29 L  | 29 L | 28 M | 30 L | 26 L | 22 L | 26 L | 26 L | 26 M |   
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| 28   | M                          | 10               | 45%                      | 25                    |   | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>31 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>31 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> </tr> <tr> <td>29 M</td> <td>28 L</td> <td>28 M</td> <td>28 M</td> <td>28 M</td> <td>29 L</td> <td>28 M</td> </tr> <tr> <td>29</td> <td>L</td> <td>21</td> <td>95%</td> <td>28</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>30 L</td> <td rowspan="2" style="text-align: center;">26 M</td> <td>22 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 M</td> </tr> <tr> <td>27 M</td> <td>26 M</td> <td>26 L</td> <td>26 M</td> <td>26 M</td> <td>26 M</td> <td>26 M</td> </tr> <tr> <td>29</td> <td>M</td> <td>01</td> <td>5%</td> <td>2</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table
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   | 31 L  | 29 L        | 31 L | 29 M | 28 L | 28 M | 28 M | 28 M | 29 L | 28 M | 29   | L    | 21   | 95%  |   
   | 28   |   | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>30 L</td> <td rowspan="2" style="text-align: center;">26 M</td> <td>22 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 M</td> </tr> <tr> <td>27 M</td> <td>26 M</td> <td>26 L</td> <td>26 M</td> <td>26 M</td> <td>26 M</td> <td>26 M</td> </tr> <tr> <td>29</td> <td>M</td> <td>01</td> <td>5%</td> <td>2</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">30 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">22 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 M</td> </tr> <tr> <td>30</td> <td>29 L</td> <td>30 L</td> <td>26 L</td> <td>22 L</td> <td>26 M</td> <td>26 M</td> </tr> <tr> <td>30</td> <td>L</td> <td>09</td> <td>41%</td> <td>2</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">31 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> </tr> <tr> <td>30</td> <td>29 L</td> <td>30 L</td> <td>26 L</td> <td>22 L</td> <td>26 L</td> <td>28 M</td> </tr> <tr> <td>30</td> <td>M</td> <td>01</td> <td>5%</td> <td>0</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">30 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">22 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 M</td> </tr> <tr> <td>31</td> <td>29 L</td> <td>30 L</td> <td>26 M</td> <td>22 L</td> <td>26 M</td> <td>26 M</td> </tr> <tr> <td>31</td> <td>L</td> <td>05</td> <td>23%</td> <td>4</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> </tr> <tr> <td>31</td> <td>29 L</td> <td>30 L</td> <td>26 L</td> <td>22 L</td> <td>26 L</td> <td>28 M</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>
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| 30   | M                          | 01               | 5%                       | 0                     |   | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">30 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">22 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 L</td> <td rowspan="2" style="text-align: center;">26 M</td> </tr> <tr> <td>31</td> <td>29 L</td> <td>30 L</td> <td>26 M</td> <td>22 L</td> <td>26 M</td> <td>26 M</td> </tr> <tr> <td>31</td> <td>L</td> <td>05</td> <td>23%</td> <td>4</td> <td rowspan="10" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>28 M</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> <td rowspan="2" style="text-align: center;">29 L</td> <td>29 L</td> </tr> <tr> <td>31</td> <td>29 L</td> <td>30
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| 31   | L                          | 05               | 23%                      | 4                     |   |  
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  |      |      |      |      |      |      |      |      |  |      |      |      |      |      |      |      |      |      |    |      |      |      |   |      |      |      |      |      |      |      |  |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |    |   |    |     |   |   |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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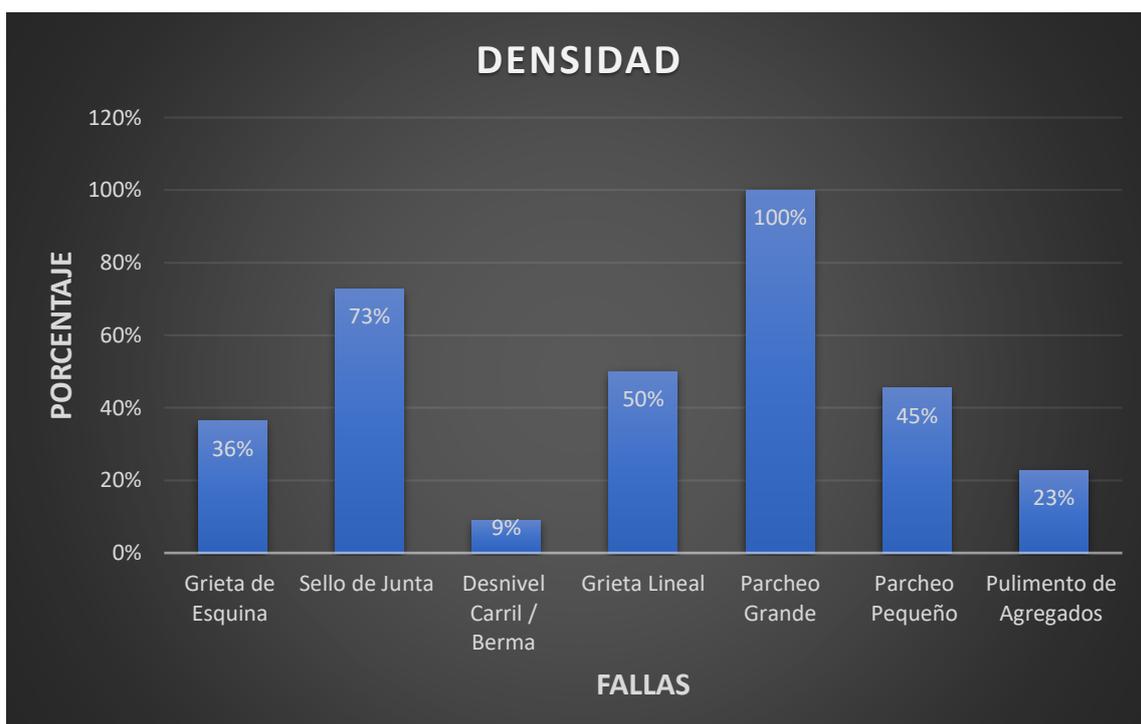
Fuente: Manual del PCI (2012)

## Memoria de Cálculo de la Densidad y el Valor Deducido

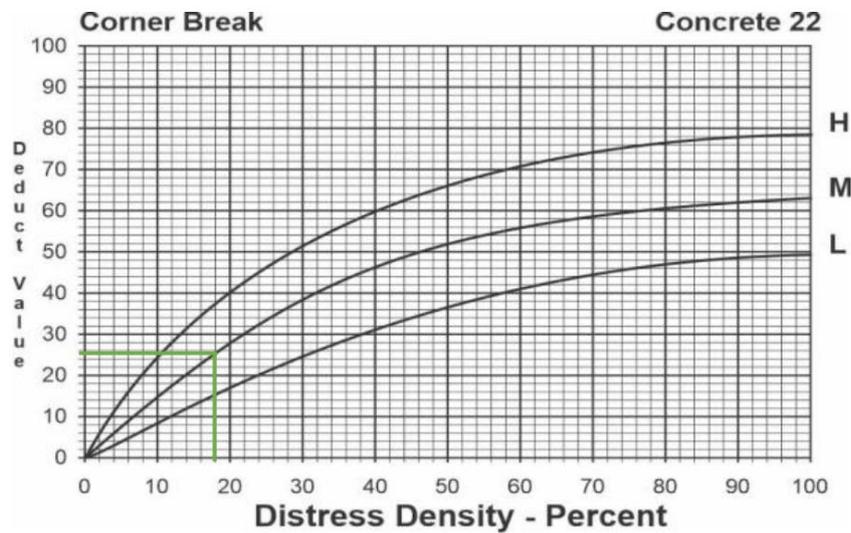
Tabla 39: Calculo de la densidad y el valor deducido

UNIDAD 03		PAÑOS = 22		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	4	18%	16
	M	4	18%	26
	H	0	0%	0
26	L	8	36%	2
	M	8	36%	4
	H	0	0%	0
27	L	1	5%	1
	M	1	5%	3
	H	0	0%	0
28	L	1	5%	3
	M	10	45%	25
	H	0	0%	0
29	L	21	95%	28
	M	1	5%	2
	H	0	0%	0
30	L	9	41%	2
	M	1	5%	0
	H	0	0%	0
31	L	5	23%	4
	M	0	0%	0
	H	0	0%	0

Fuente: Elaboración propia



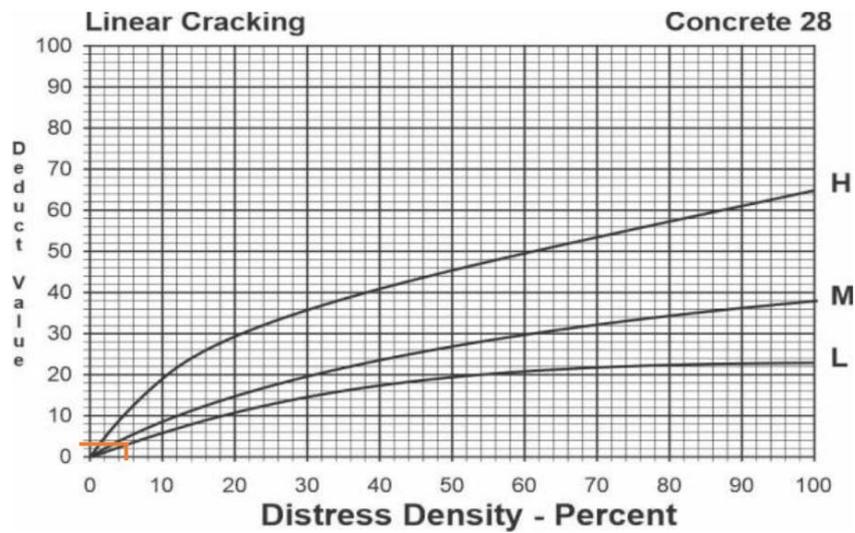
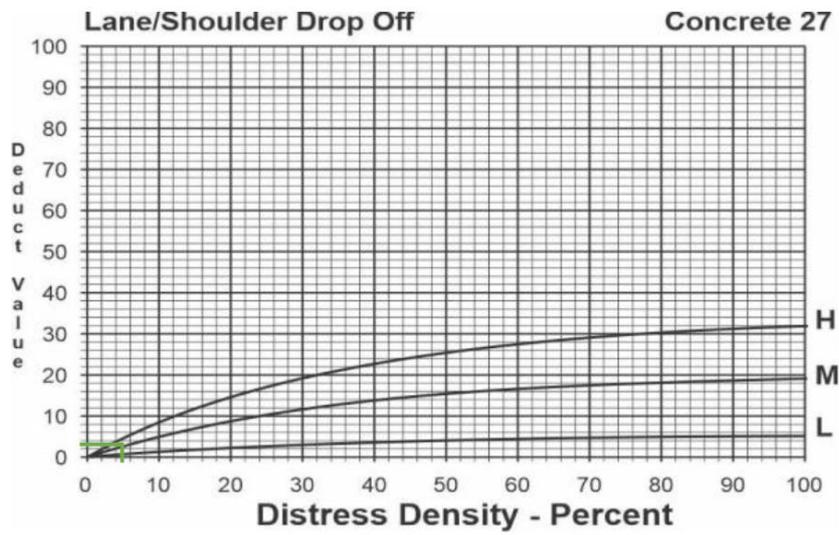
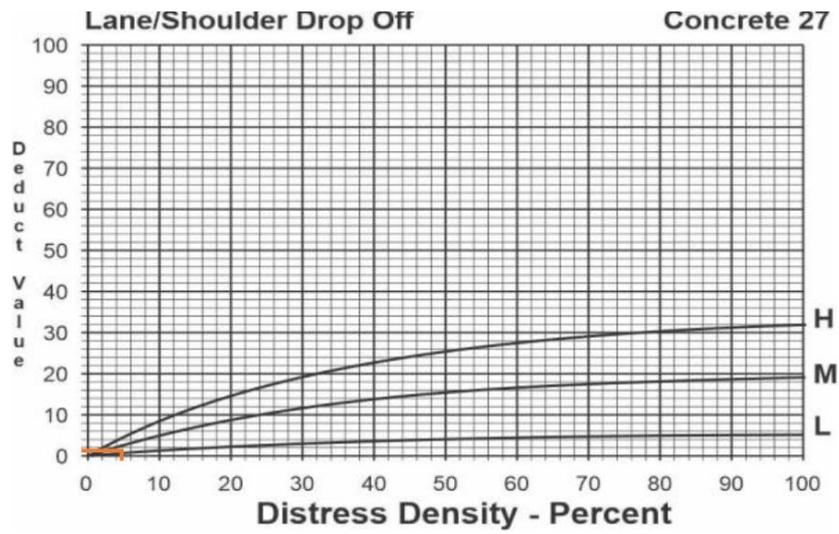
**Figura 13: Cálculo del valor deducido**

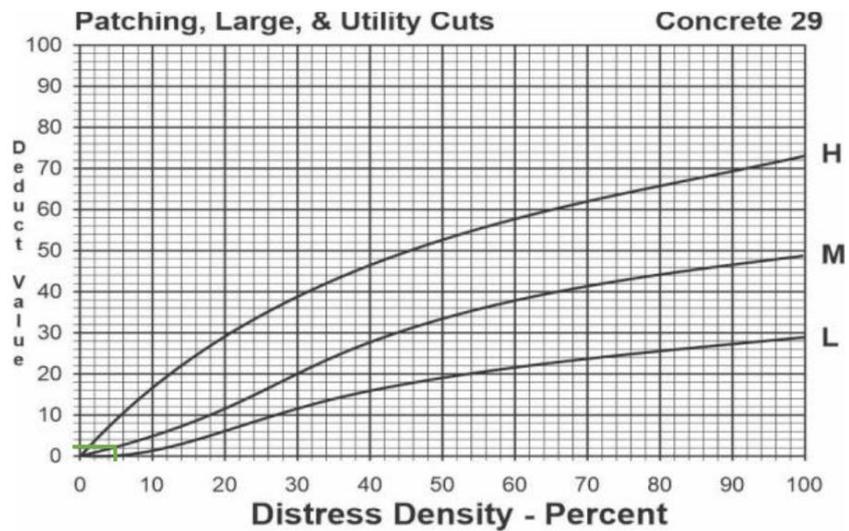
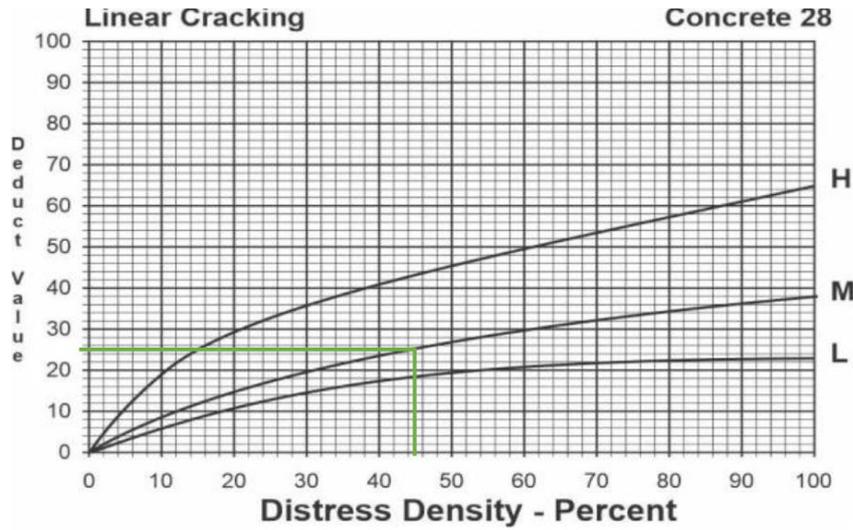


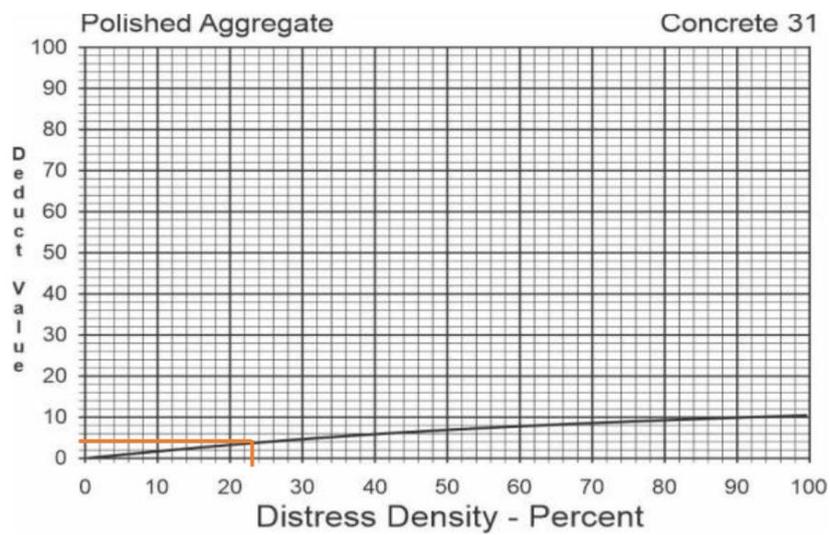
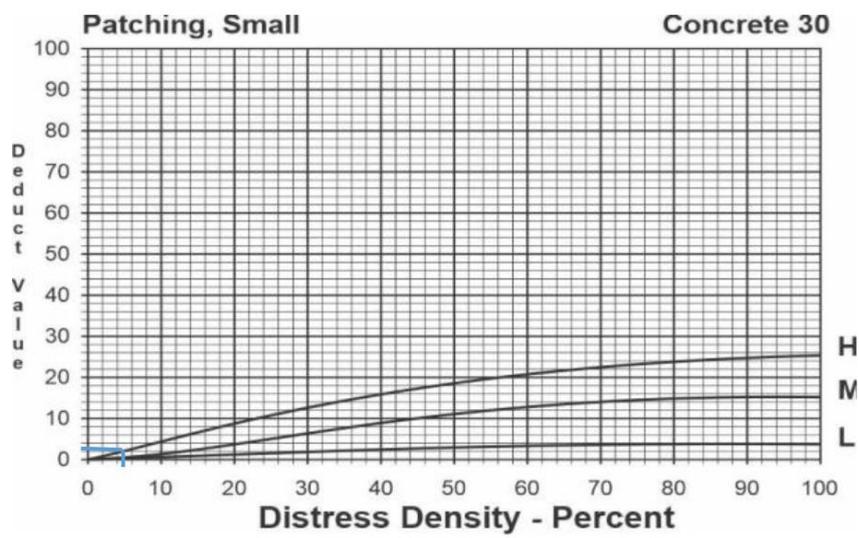
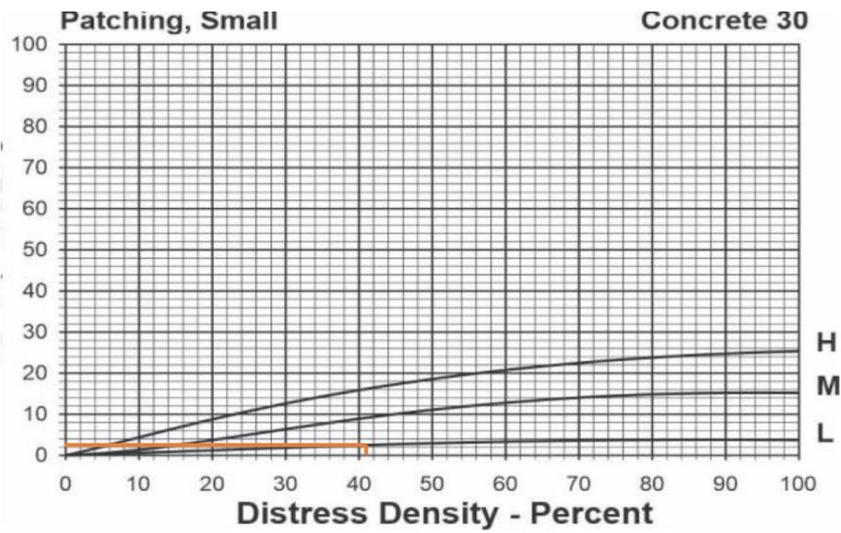
Joint seal damage is not rated by density. The severity of the distress is determined by the sealant's overall condition for a particular sample unit.

the deduct values for the three levels of severity are:

LOW	2 points
MEDIUM	4 points
HIGH	8 points







Fuente: Manual del PCI (2012)

## Memoria de Cálculo de la Densidad y el Valor Deducido corregido

### Memoria de Cálculo del Valor Deducido Corregido

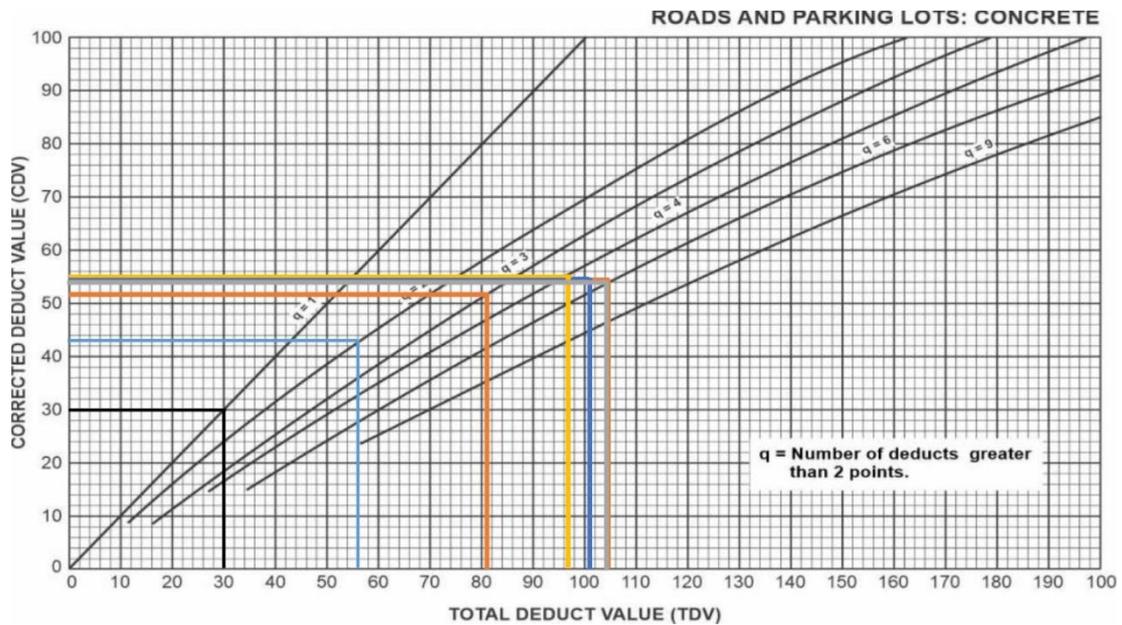
Tabla 40: Cálculo del máximo valor deducido (VDC)

N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	28	26	25	16	4	3	1,2	103,2	6	54
2	28	26	25	16	4	3	2	104	6	54
3	28	26	25	16	4	2		101	5	55
4	28	26	25	16	2			97	4	55
5	28	26	25	2				81	3	52
6	28	26	2					56	2	43
7	28	2						30	1	30

Max. VDC=55

PCI = 100-Max. VDC = 45

Figura 14: Cálculo del máximo valor deducido (VDC)



### Calificación de la Condición del Pavimento

Tabla 41: Calificación de la condición del pavimento

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

**LA CALIFICACIÓN DEL PCI ES REGULAR**

## Unidad 04

### Ficha de Recolección de datos en campo

**Tabla 42:** Ficha de recolección de datos en campo

EXPLORACIÓN DE LA CONDICIÓN POR UNIDAD DE MUESTREO												
<b>UBICACIÓN</b>					<b>UNIDAD DE MUESTREO</b>							
<i>Av. Diego Ferrer, Huaraz, Ancash</i>					04							
<b>EVALUADA POR</b>					<b>NÚMERO DE LOSAS</b>							
<i>Jairo Fernando Cuentas Checa</i>					22							
<b>VALIDADA POR</b>					<b>FECHA</b>							
					<i>14 de Agosto de 2021</i>							
No	Daño		No	Daño		No	Daño					
21	Blow up / Buckling.		27	Desnivel Carril / Berma.		34	Punzonamiento.					
22	Grieta de esquina.		28	Grieta lineal.		35	Cruce de vía férrea					
23	Losas dividida.		29	Parcheo (grande).		36	Desconchamiento					
24	Grieta de durabilidad "D".		30	Parcheo (pequeño)		37	Retracción					
25	Escala.		31	Pulimento de agregados		38	Descascaramiento de esquina					
26	Sello de junta.		32	Popouts		39	Descascaramiento de junta					
			33	Bombeo								
Daño	Severidad	No. Losas	Densidad (%)	Valor deducido	ESQUEMA							
22	L	01	5%	4	29 L		29 L	29 L	29 L	29 M	29 L	27 M
22	M	06	27%	35	30 L	29 L	30 L	31 L	28 M	31 L	28 M	28 M
26	L	03	14%	2	28 M	26 L	28 L	22 M	31 L	27 L	22 M	22 M
26	M	05	23%	4	22 M		26 M				26 M	31 M
27	L	01	5%	1								
27	M	01	5%	3								
28	L	03	14%	8								
28	M	10	45%	25								
29	L	16	73%	24	29 L		26 L				31 M	
29	M	05	23%	8	30 L	29 L	28 L	29 M	29 L	28 L	28 M	
30	L	04	18%	1	28 M	30 L	29 L				22 M	
30	M	02	9%	1			29 L				30 M	
31	L	04	18%	3							29 M	
31	M	02	9%	1							26 M	
					29 L		29 L	29 L	29 M	28 M	28 M	
					28 M	29 L	29 L	22 L	30 M	22 M	22 M	
					26 M		28 M	26 L	28 M	26 M	26 M	
										29 M		

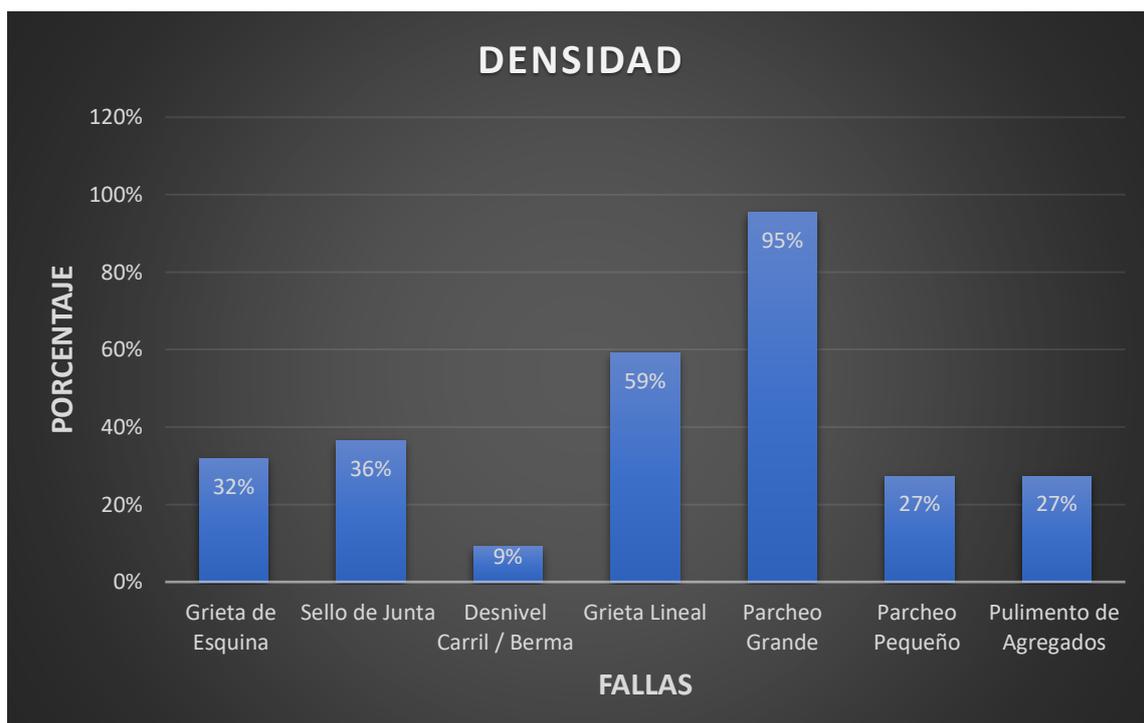
Fuente: Manual del PCI (2012)

## Memoria de Cálculo de la Densidad y el Valor Deducido

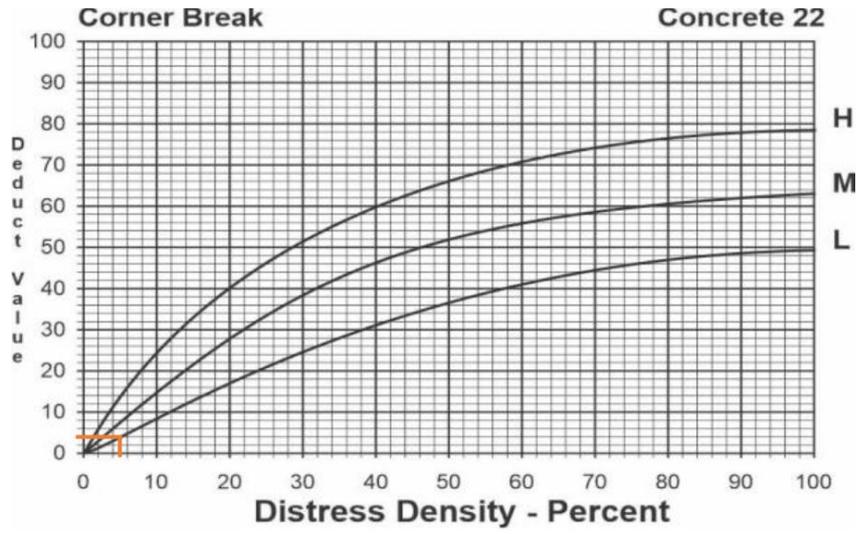
Tabla 43: Cálculo de la densidad y el valor deducido

UNIDAD 04		PAÑOS = 22		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	1	5%	4
	M	6	27%	35
	H	0	0%	0
26	L	3	14%	2
	M	5	23%	4
	H	0	0%	0
27	L	1	5%	1
	M	1	5%	3
	H	0	0%	0
28	L	3	14%	8
	M	10	45%	25
	H	0	0%	0
29	L	16	73%	24
	M	5	23%	8
	H	0	0%	0
30	L	4	18%	1
	M	2	9%	1
	H	0	0%	0
31	L	4	18%	3
	M	2	9%	1
	H	0	0%	0

Fuente: Elaboración propia



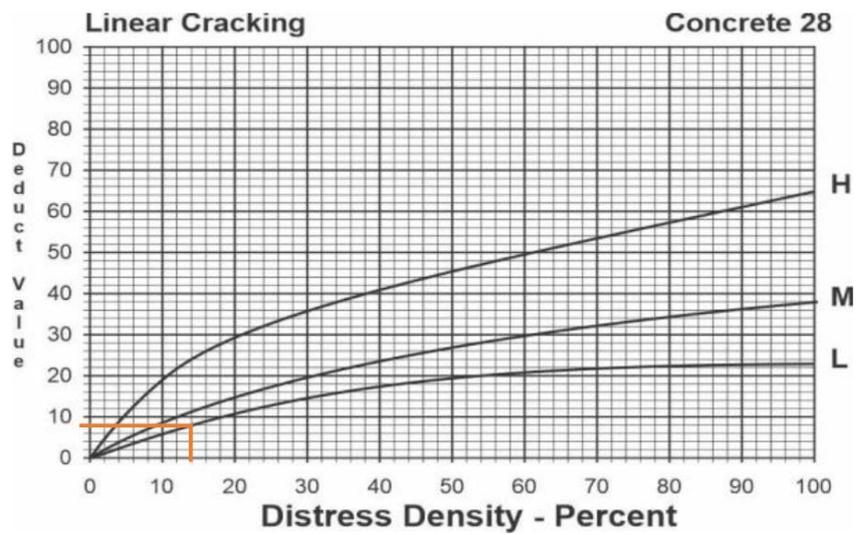
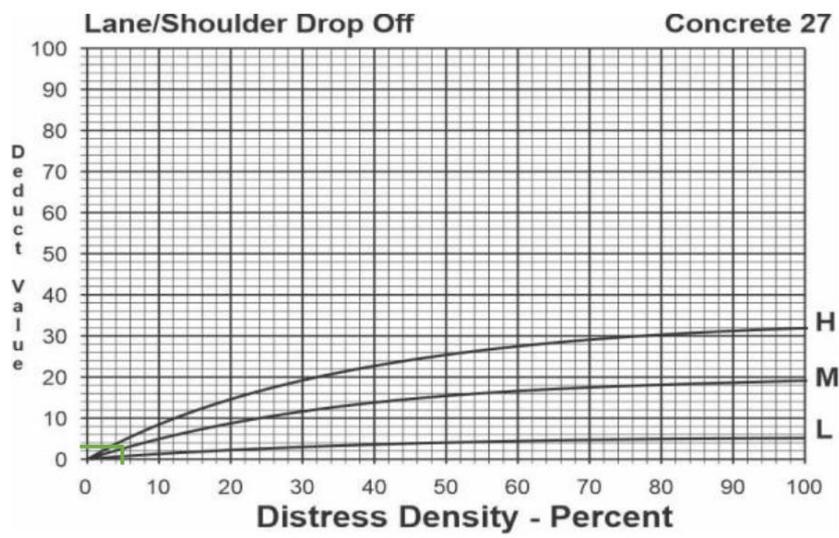
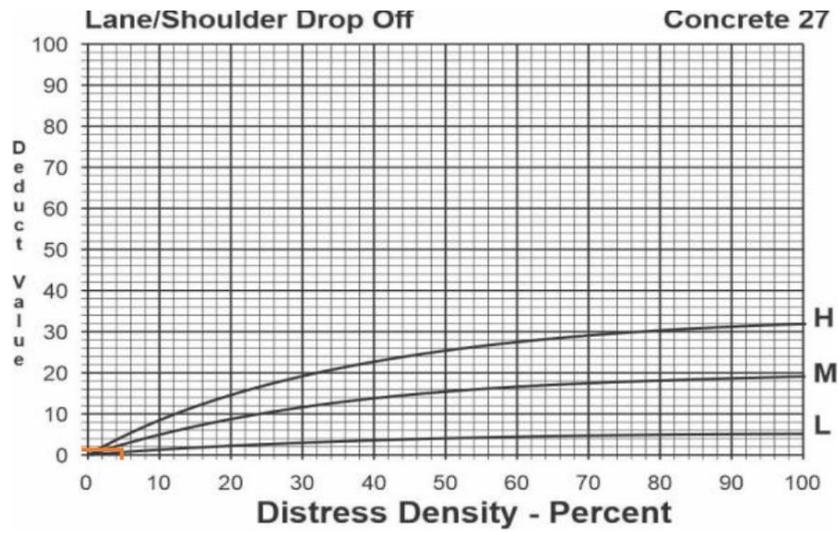
**Figura 15: Cálculo del valor deducido**

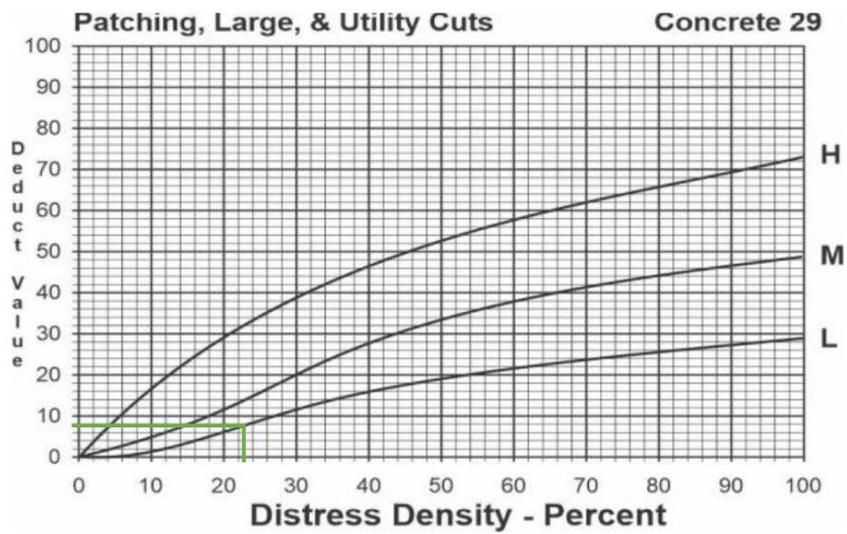
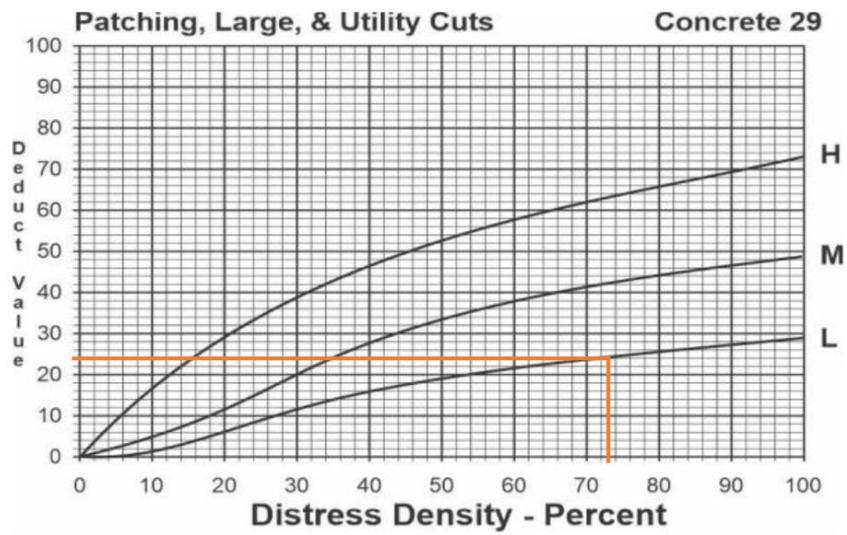
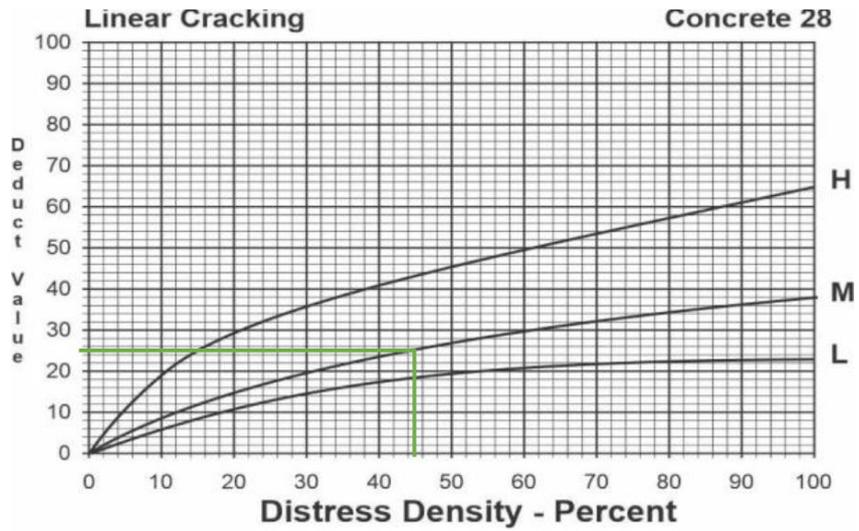


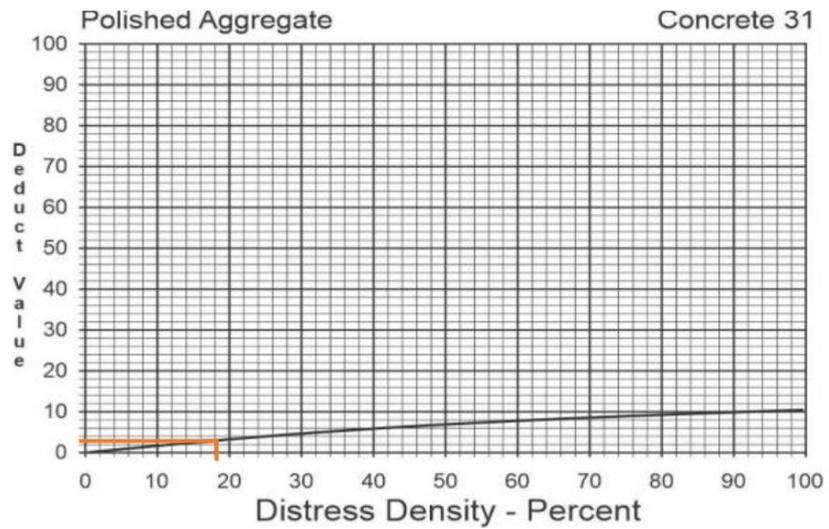
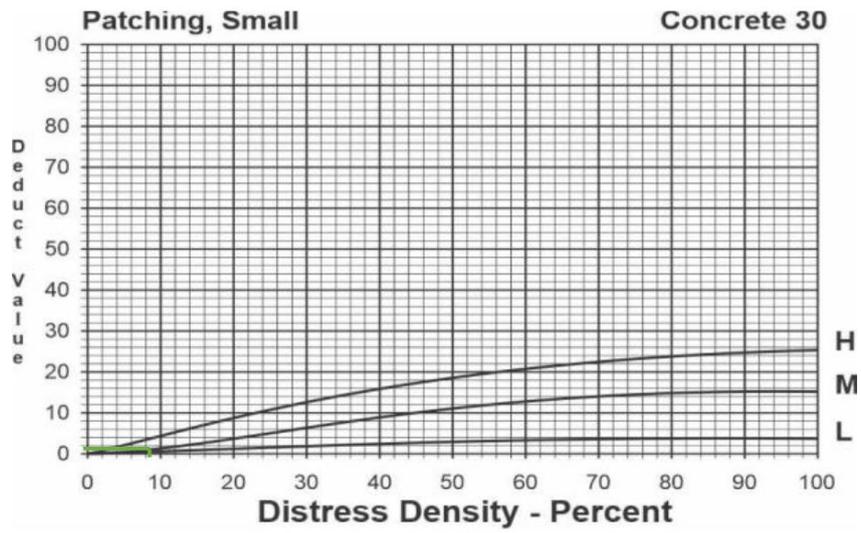
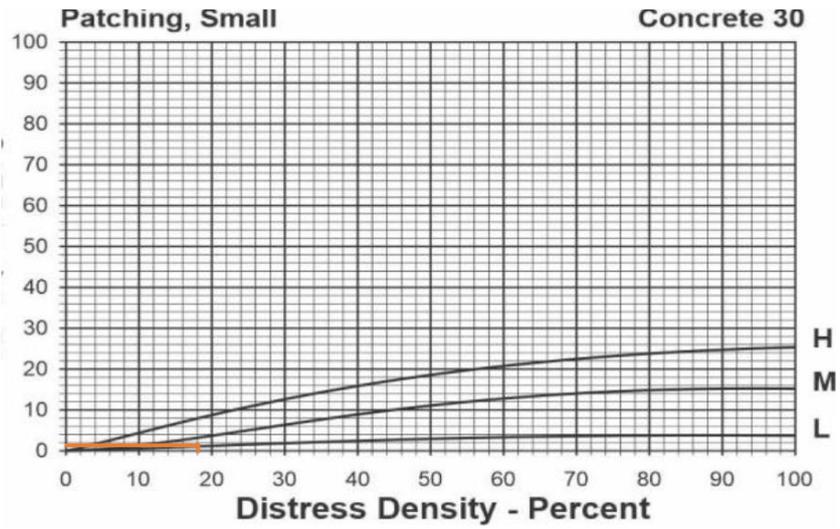
Joint seal damage is not rated by density. The severity of the distress is determined by the sealant's overall condition for a particular sample unit.

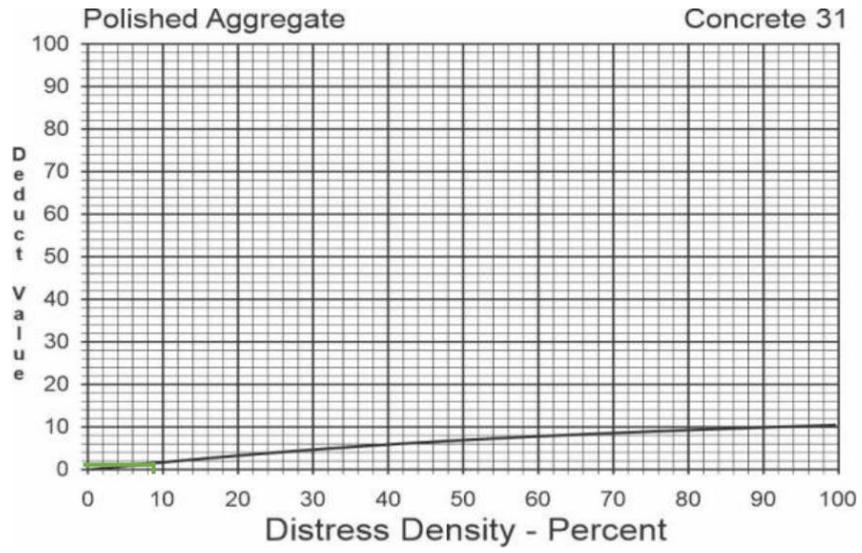
the deduct values for the threarlevels of severity are:

LOW	2 points
MEDIUM	4 points
HIGH	8 points









Fuente: Manual del PCI (2012)

## Memoria de Cálculo de la Densidad y el Valor Deducido corregido

### Memoria de Cálculo del Valor Deducido Corregido

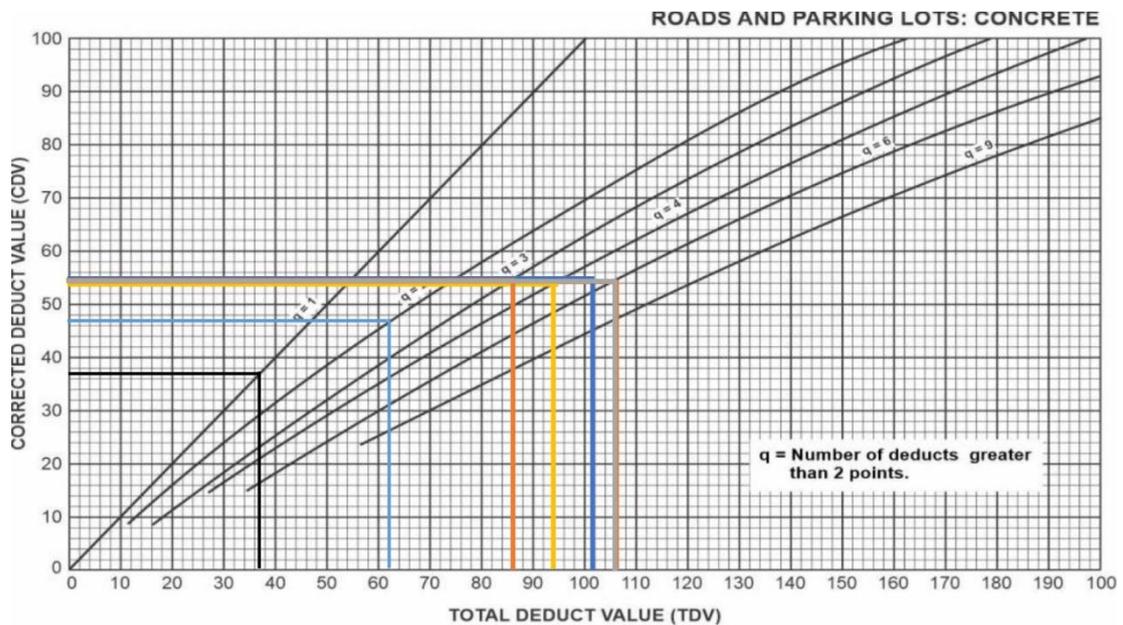
Tabla 44: Cálculo del máximo valor deducido (VDC)

N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	35	25	24	8	8	4	2,04	106,04	6	54
2	35	25	24	8	8	4	2	106	6	54
3	35	25	24	8	8	2		102	5	55
4	35	25	24	8	2			94	4	54
5	35	25	24	2				86	3	55
6	35	25	2					62	2	47
7	35	2						37	1	37

Max. VDC=55

PCI = 100-Max. VDC = 45

Figura 16: Cálculo del máximo valor deducido (VDC)



### Calificación de la Condición del Pavimento

Tabla 45: Calificación del PCI

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

**LA CALIFICACIÓN DEL PCI ES REGULAR**

## Unidad 05

### Ficha de Recolección de datos en campo

**Tabla 46:** Ficha de recolección de datos en campo

EXPLORACIÓN DE LA CONDICIÓN POR UNIDAD DE MUESTREO													
<b>UBICACIÓN</b>					<b>UNIDAD DE MUESTREO</b>								
<i>Av. Diego Ferrer, Huaraz, Ancash</i>					05								
<b>EVALUADA POR</b>					<b>NÚMERO DE LOSAS</b>								
<i>Jairo Fernando Cuentas Checa</i>					22								
<b>VALIDADA POR</b>					<b>FECHA</b>								
					<i>14 de Agosto de 2021</i>								
No	Daño		No	Daño		No	Daño						
21	Blow up / Buckling.		27	Desnivel Carril / Berma.		34	Punzonamiento.						
22	Grieta de esquina.		28	Grieta lineal.		35	Cruce de vía férrea						
23	Losas dividida.		29	Parcheo (grande).		36	Desconchamiento						
24	Grieta de durabilidad "D".		30	Parcheo (pequeño)		37	Retracción						
25	Escala.		31	Pulimento de agregados		38	Descascaramiento de esquina						
26	Sello de junta.		32	Popouts		39	Descascaramiento de junta						
			33	Bombeo									
Daño	Severidad	No. Losas	Densidad (%)	Valor deducido	ESQUEMA								
22	L	01	5%	4	30L 22M 28M	29H 30H	27H 28M	29M 30M	30L 22M	31M 29L	31L 29L	30L 31L	
26	L	02	9%	2		28M	22M	22M	28M	28L	26M	26M	27M
27	M	03	14%	6		31L	26H	22M				22M	
27	H	02	9%	8		26M							
28	L	03	14%	8		30L	29M						
28	M	13	59%	30		28M	28M	29L	29L	30L	29L		
29	L	08	36%	14		30L	22M	28L	29L	22L	28M		
29	M	03	14%	8		22M	27H	30M	26L	28L	22M		
29	H	02	9%	15		26H	26M			26M	26M		
30	L	10	45%	3									
30	M	02	9%	1									
30	H	01	5%	2									
31	L	05	23%	4		30L	29H	29L	27M	30L	31L	31L	
31	M	01	5%	1		22M	28M	29L	29L	22M	26M	26M	
						28M	22M	28M	22M	30L	28M	28M	
						26M	27M	26L	22M	26M	22M	22M	

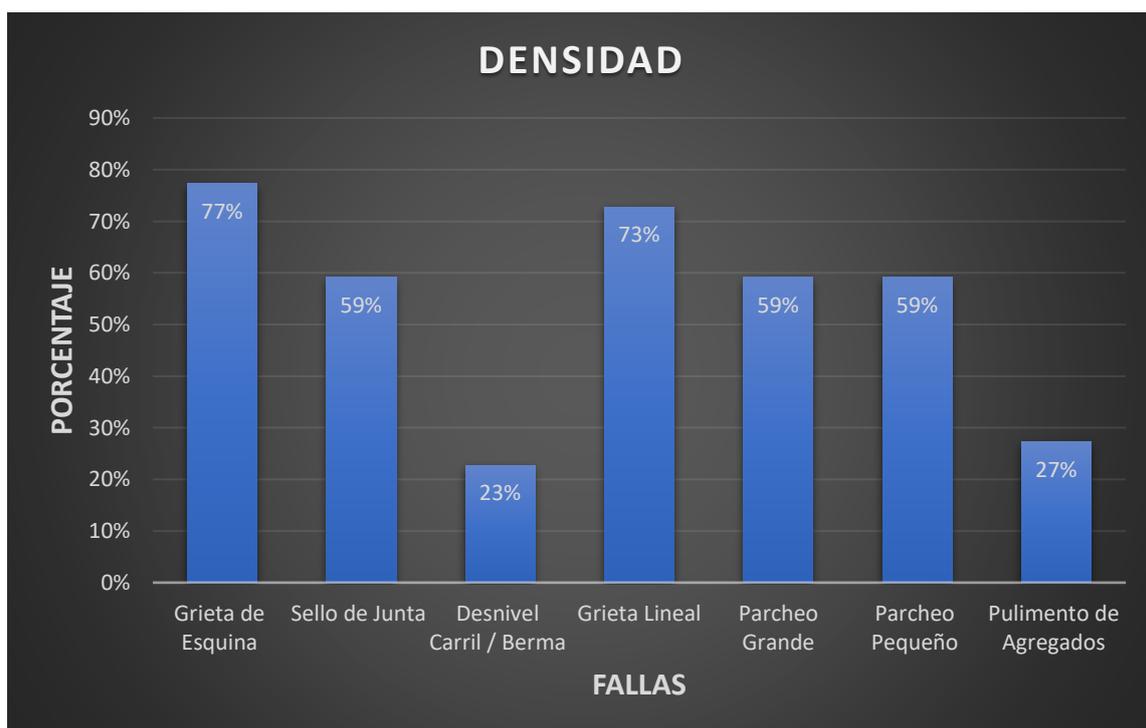
Fuente: Manual del PCI (2012)

## Memoria de Cálculo de la Densidad y el Valor Deducido

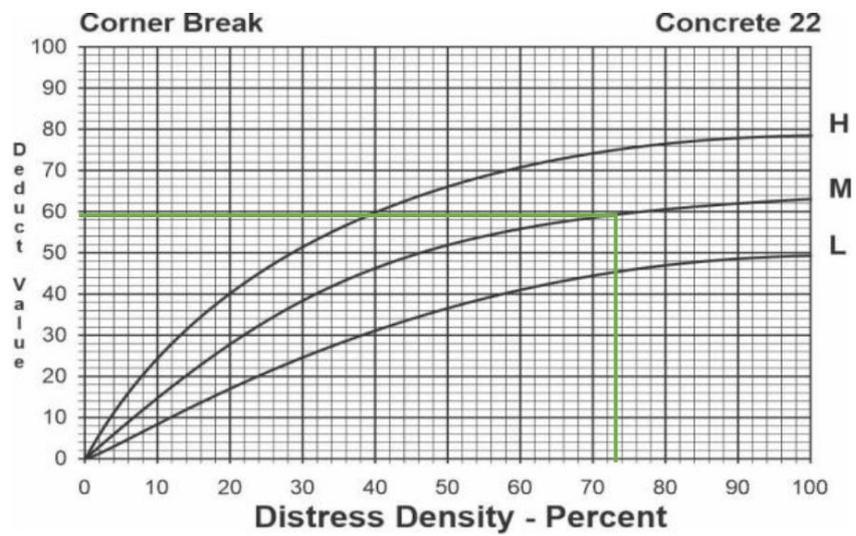
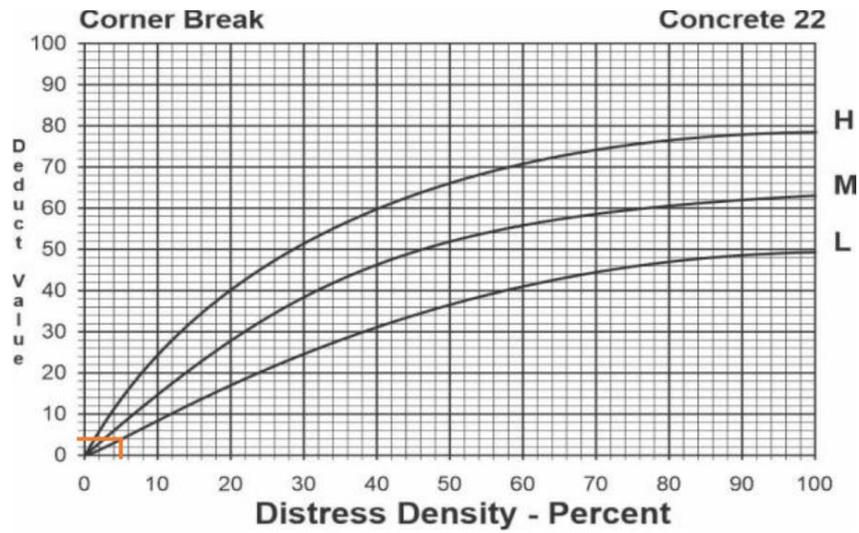
Tabla 47: Cálculo de la densidad y el valor deducido

UNIDAD 05		PAÑOS = 22		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	1	5%	4
	M	16	73%	59
	H	0	0%	0
26	L	2	9%	2
	M	9	41%	4
	H	2	9%	8
27	L	0	0%	0
	M	3	14%	6
	H	2	9%	8
28	L	3	14%	8
	M	13	59%	30
	H	0	0%	0
29	L	8	36%	14
	M	3	14%	8
	H	2	9%	15
30	L	10	45%	3
	M	2	9%	1
	H	1	5%	2
31	L	5	23%	4
	M	1	5%	1
	H	0	0%	0

Fuente: Elaboración propia



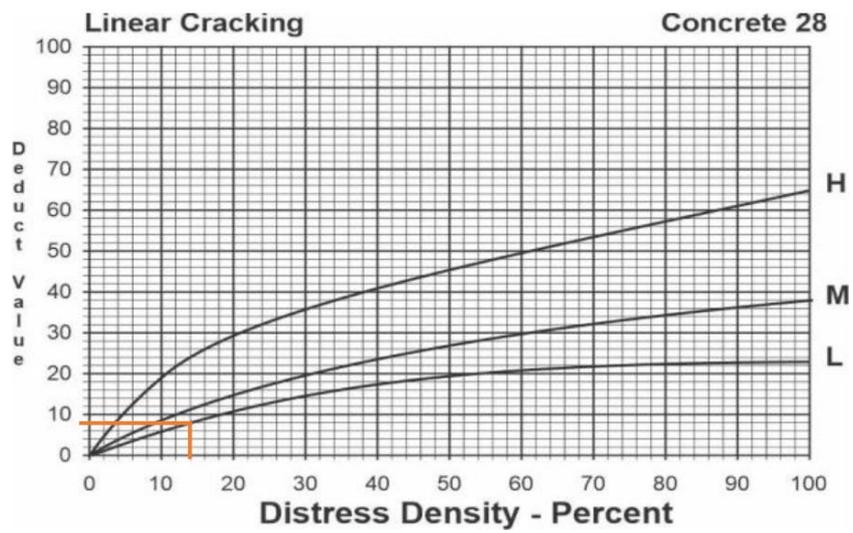
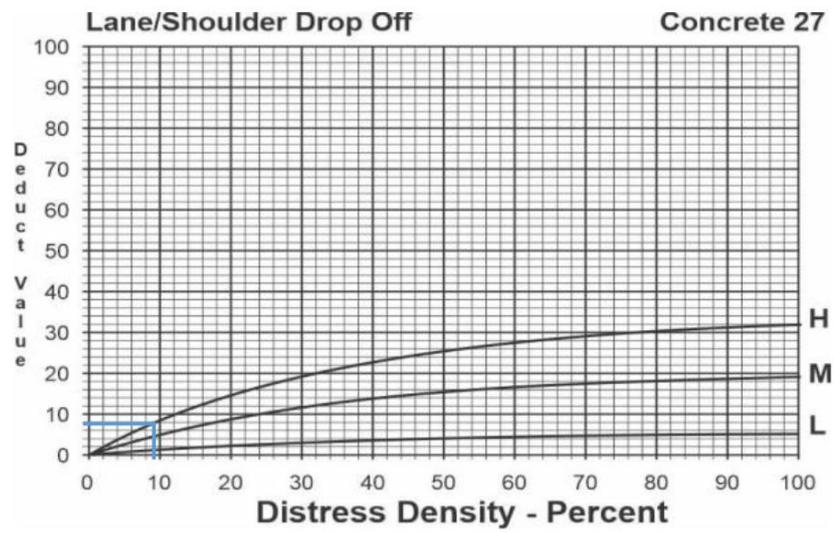
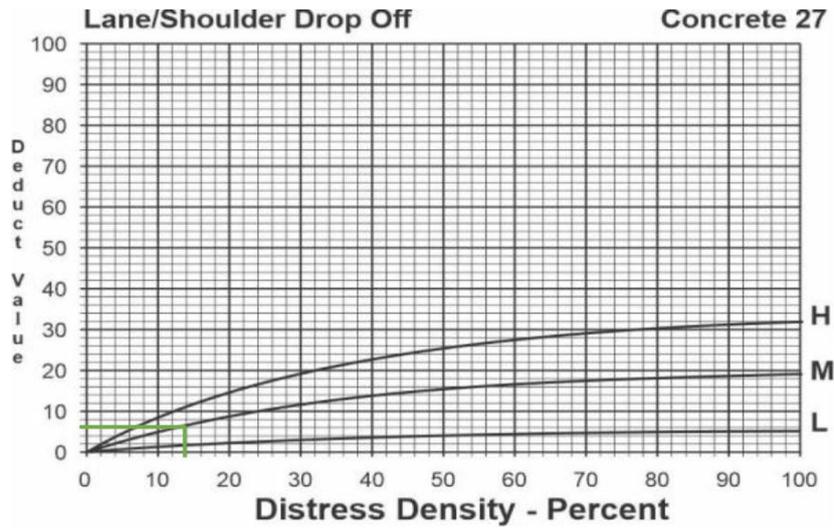
**Figura 17: Cálculo del valor deducido**

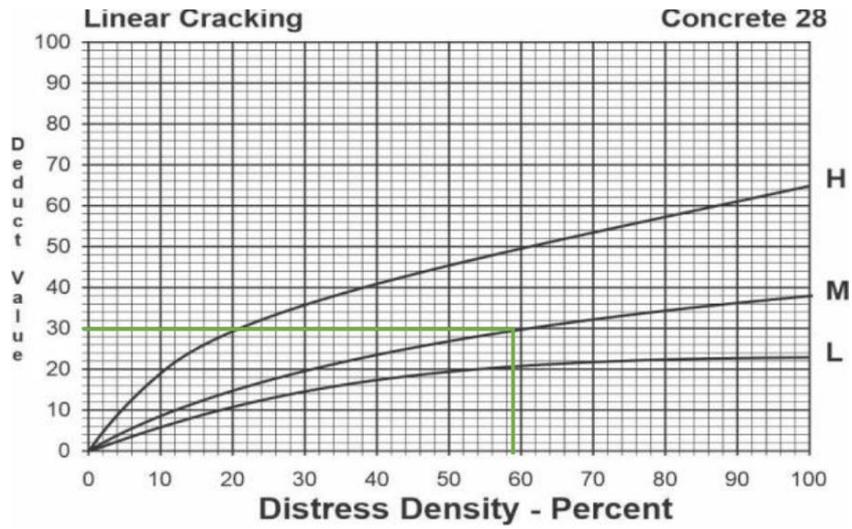


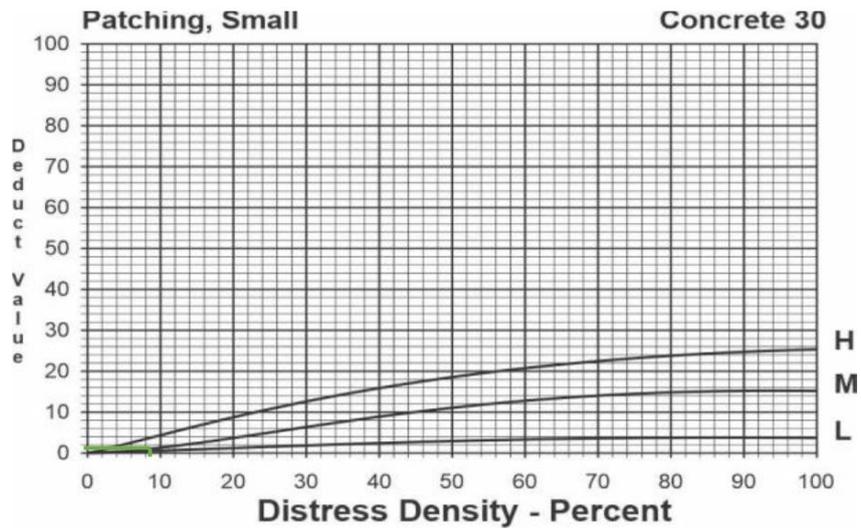
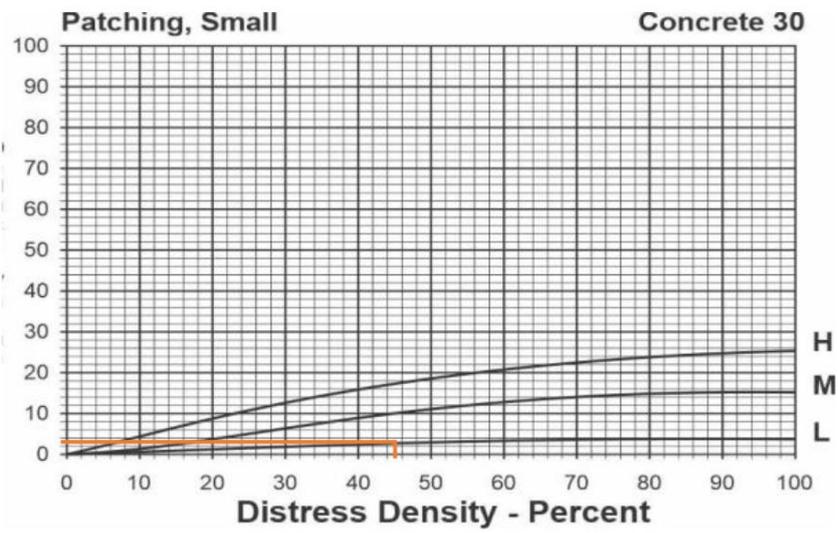
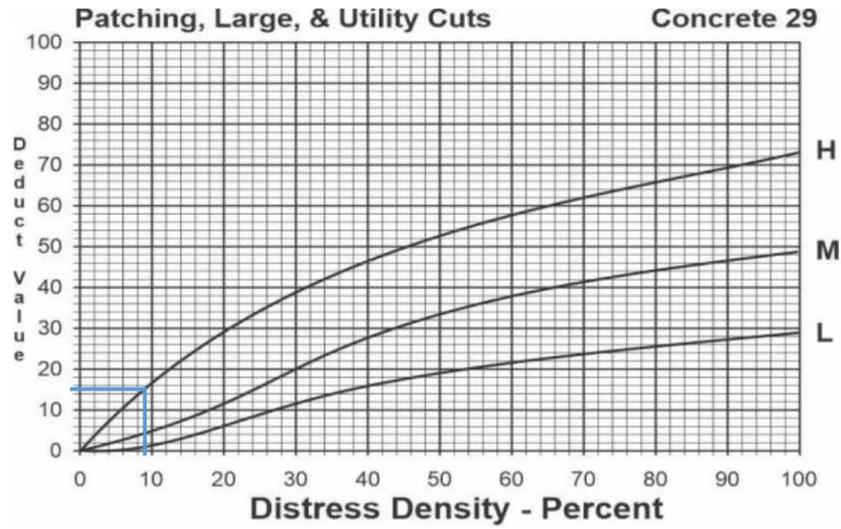
Joint seal damage is not rated by density. The severity of the distress is determined by the sealant's overall condition for a particular sample unit.

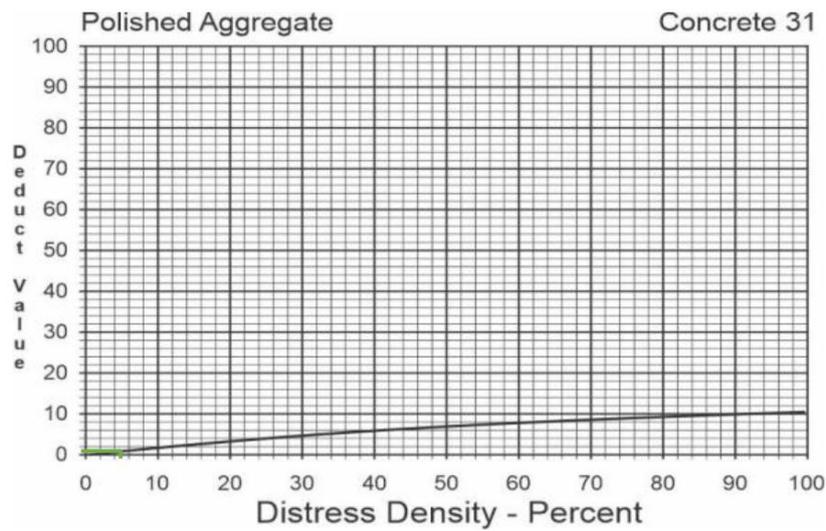
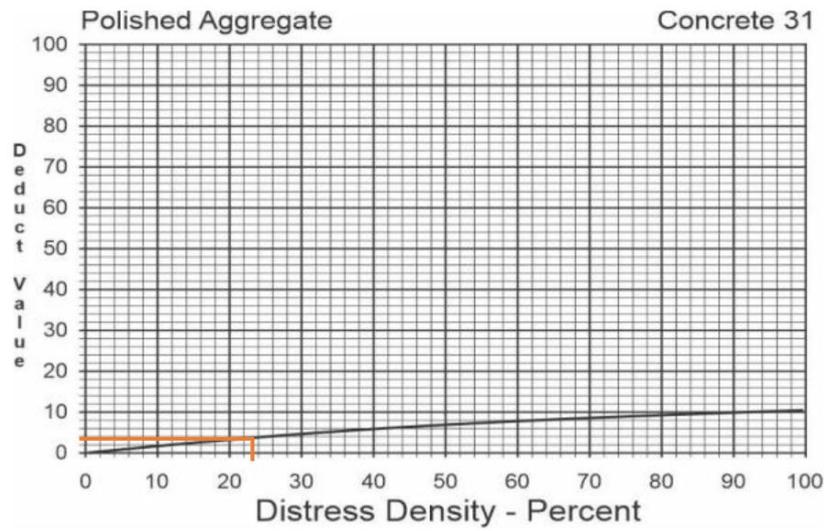
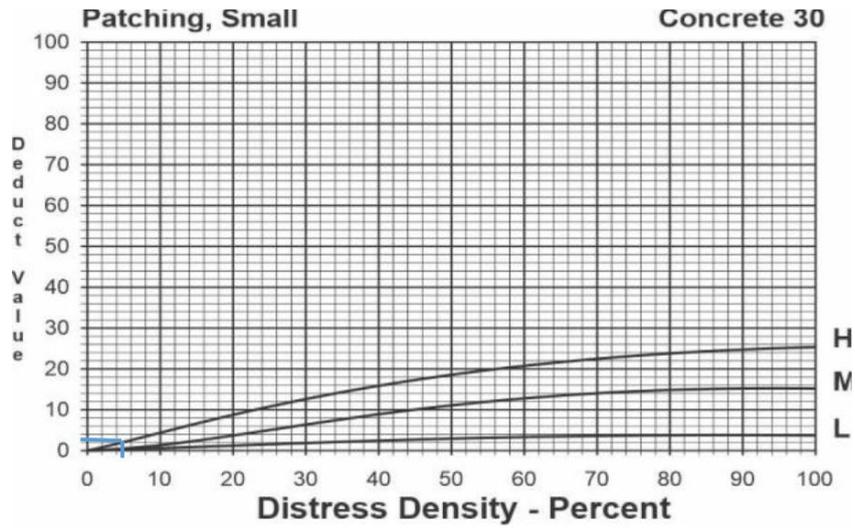
the deduct values for the threarlevels of severity are:

LOW	2 points
MEDIUM	4 points
HIGH	8 points









Fuente: Manual del PCI (2012)

## Memoria de Cálculo de la Densidad y el Valor Deducido corregido

### Memoria de Cálculo del Valor Deducido Corregido

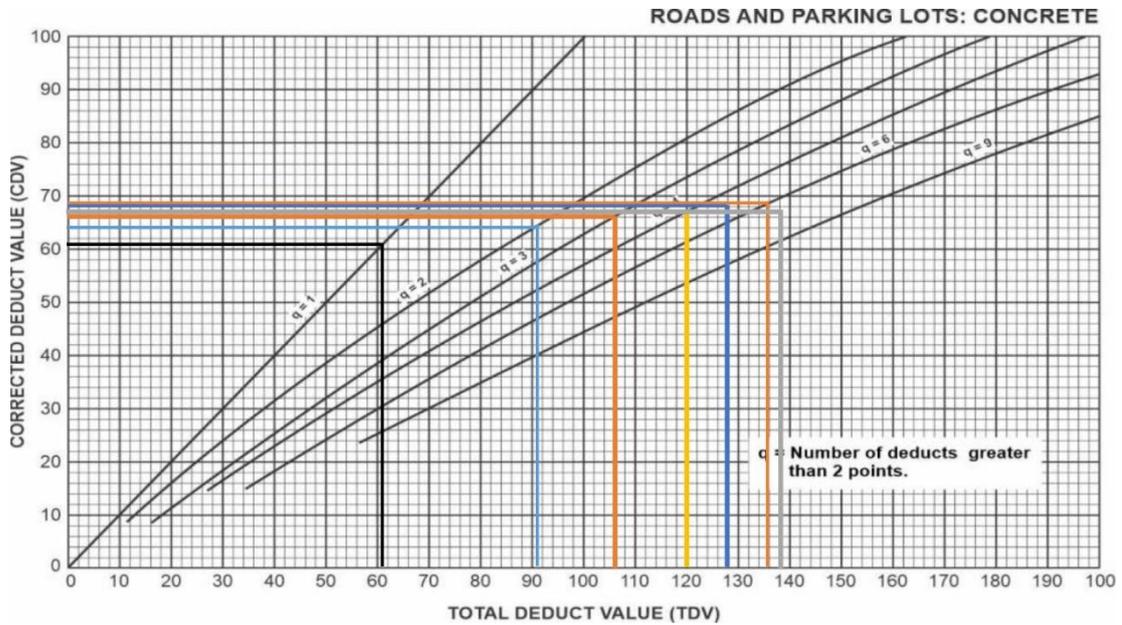
Tabla 48: Cálculo del máximo valor deducido (VDC)

N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	59	30	15	14	8	8	4,08	138,08	7	67
2	59	30	15	14	8	8	2	136	6	69
3	59	30	15	14	8	2		128	5	68
4	59	30	15	14	2			120	4	67
5	59	30	15	2				106	3	66
6	59	30	2					91	2	64
7	59	2						61	1	61

Max. VDC=69

PCI = 100-Max. VDC = 31

Figura 18: Cálculo del máximo valor deducido (VDC)



### Calificación de la Condición del Pavimento

Tabla 28: Calificación del PCI

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

**LA CALIFICACIÓN DEL PCI ES MALO**

## Unidad 06

### Ficha de Recolección de datos en campo

**Tabla 49:** Ficha de recolección de datos en campo

EXPLORACIÓN DE LA CONDICIÓN POR UNIDAD DE MUESTREO												
<b>UBICACIÓN</b>					<b>UNIDAD DE MUESTREO</b>							
<i>Av. Diego Ferrer, Huaraz, Ancash</i>					06							
<b>EVALUADA POR</b>					<b>NÚMERO DE LOSAS</b>							
<i>Jairo Fernando Cuentas Checa</i>					23							
<b>VALIDADA POR</b>					<b>FECHA</b>							
					<i>14 de Agosto de 2021</i>							
<b>No</b>	<b>Daño</b>			<b>No</b>	<b>Daño</b>			<b>No</b>	<b>Daño</b>			
21	Blow up / Buckling.			27	Desnivel Carril / Berma.			34	Punzonamiento.			
22	Grieta de esquina.			28	Grieta lineal.			35	Cruce de vía férrea			
23	Losas dividida.			29	Parcheo (grande).			36	Desconchamiento			
24	Grieta de durabilidad "D".			30	Parcheo (pequeño)			37	Retracción			
25	Escala.			31	Pulimento de agregados			38	Descascaramiento de esquina			
26	Sello de junta.			32	Popouts			39	Descascaramiento de junta			
				33	Bombeo							
<b>Daño</b>	<b>Severidad</b>	<b>No. Losas</b>	<b>Densidad (%)</b>	<b>Valor deducido</b>	<b>ESQUEMA</b>							
22	L	01	4%	3	31L	29L		31L		31L	29M	29L
22	M	14	61%	56	28M	28M	28M	22M	29M	30L	22M	22M
22	H	03	13%	30	22M	22M	22M	29L	26M	22M	26L	26L
26	L	05	22%	2	26M	26M	30M	26M		28M		
26	M	12	52%	4	27M	27H						
27	M	01	4%	2								
27	H	03	13%	10								
28	M	11	48%	26	29M	29M	28M	22M	29M		31L	29L
28	H	01	4%	8	31H	26M	22M	29M	31L	29M	29L	28M
29	L	08	35%	14	27H	31M	26M	26M	28M	26L	22M	26L
29	M	10	43%	30	22H	27H	29L		26M		26L	26L
30	M	02	9%	1								
31	L	07	30%	34						29L		
					28M	28M	30M	31M		30L	29M	
					26M	22M	29M	28H	29M	31M	28M	
					31L	26M	22M	22H	22L	22M	31L	
					22M		26M	29L		28M		
										26M		

Fuente: Manal del PCI (2012)

## Memoria de Cálculo de la Densidad y el Valor Deducido

Tabla 50: Cálculo de la densidad y el valor deducido

UNIDAD 06		PAÑOS = 23		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	1	4%	3
	M	14	61%	56
	H	3	13%	30
26	L	5	22%	2
	M	12	52%	4
	H	0	0%	0
27	L	0	0%	0
	M	1	4%	2
	H	3	13%	10
28	L	0	0%	0
	M	11	48%	26
	H	1	4%	8
29	L	8	35%	14
	M	10	43%	30
	H	0	0%	0
30	L	2	9%	0
	M	2	9%	1
	H	0	0%	0
31	L	7	30%	34
	M	3	13%	2
	H	1	4%	0

Fuente: Elaboración propia

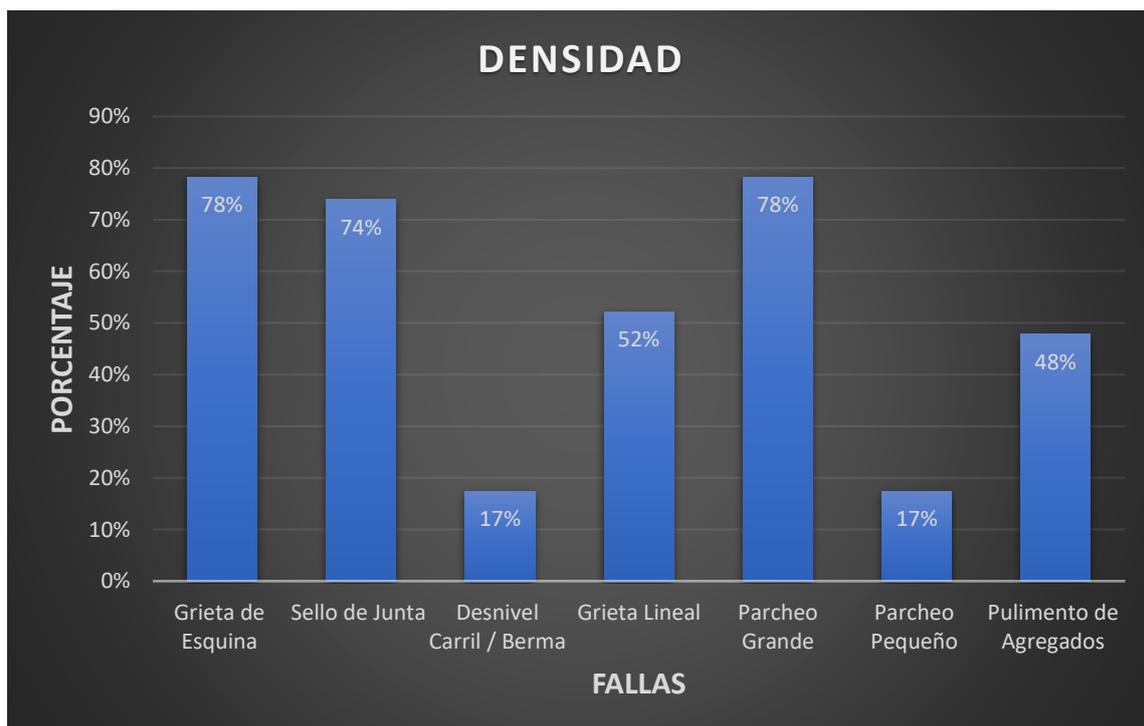
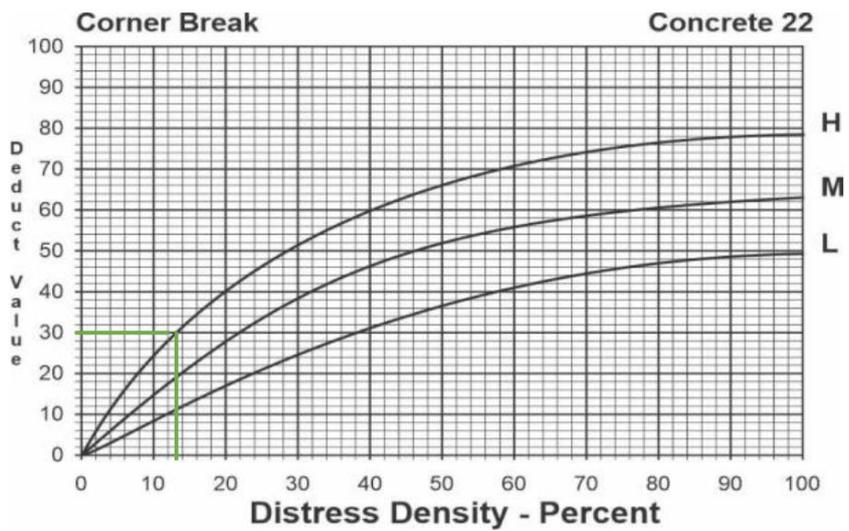
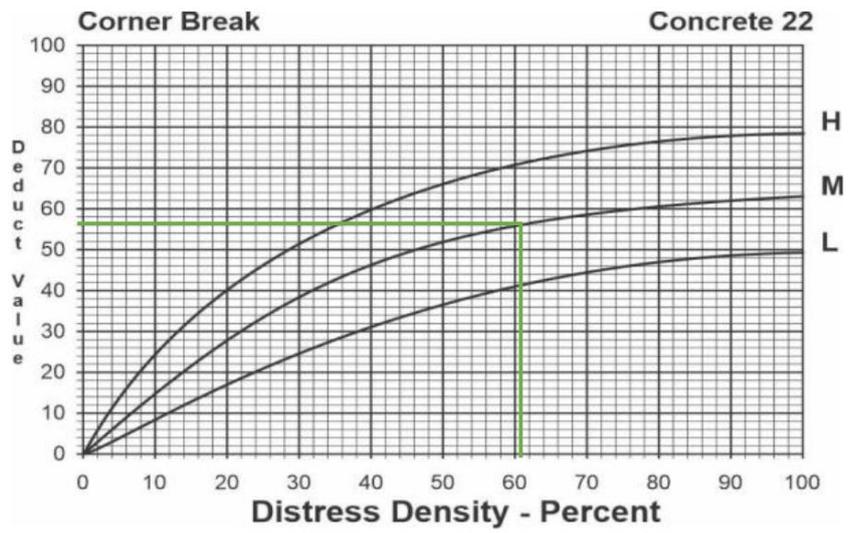
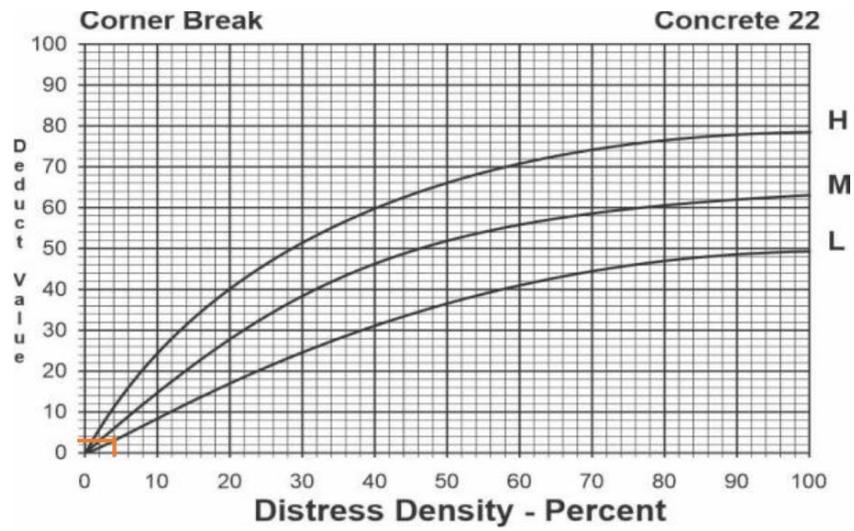


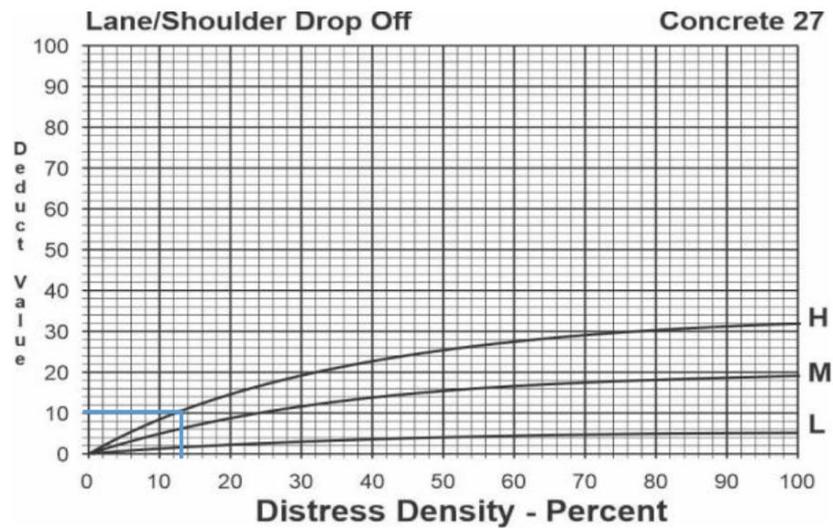
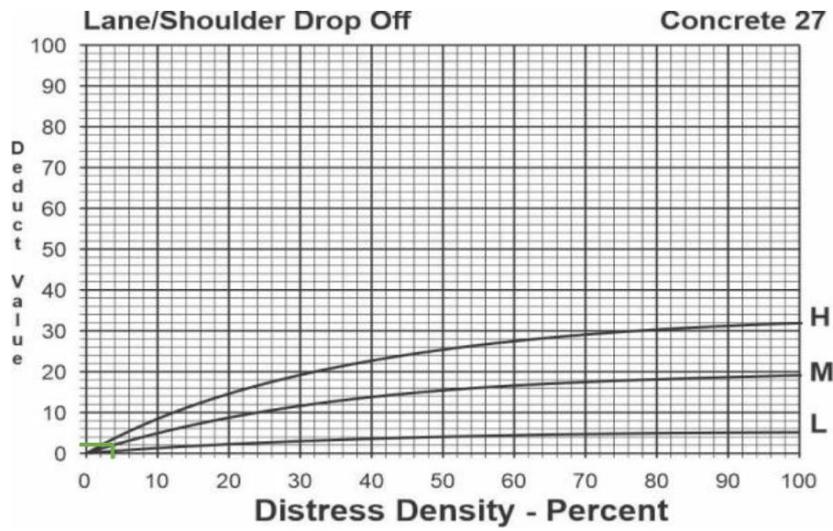
Figura 19: Cálculo del valor deducido

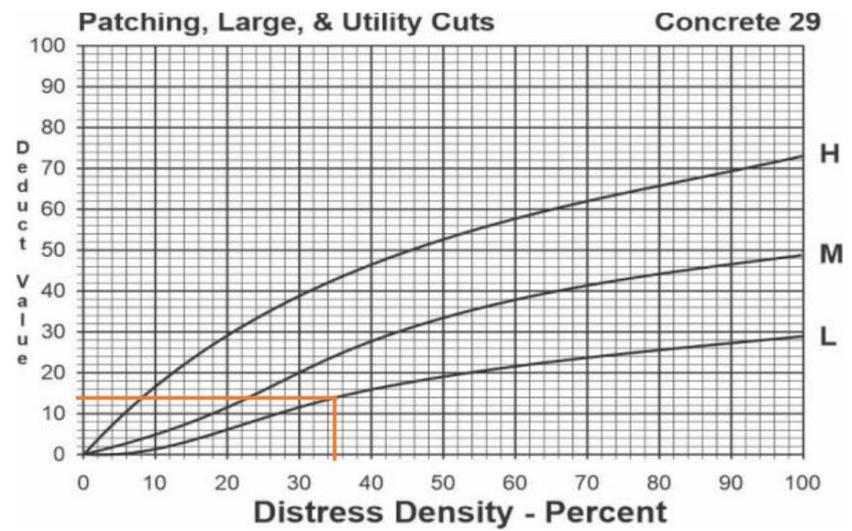
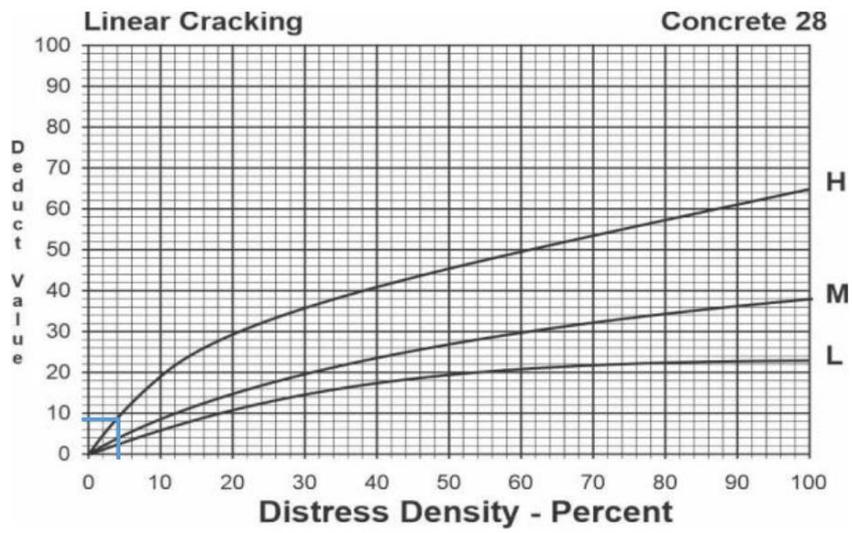
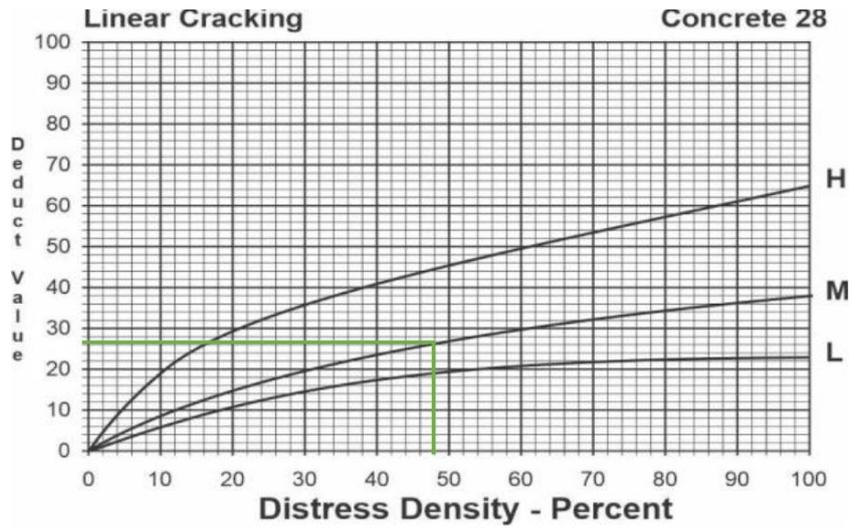


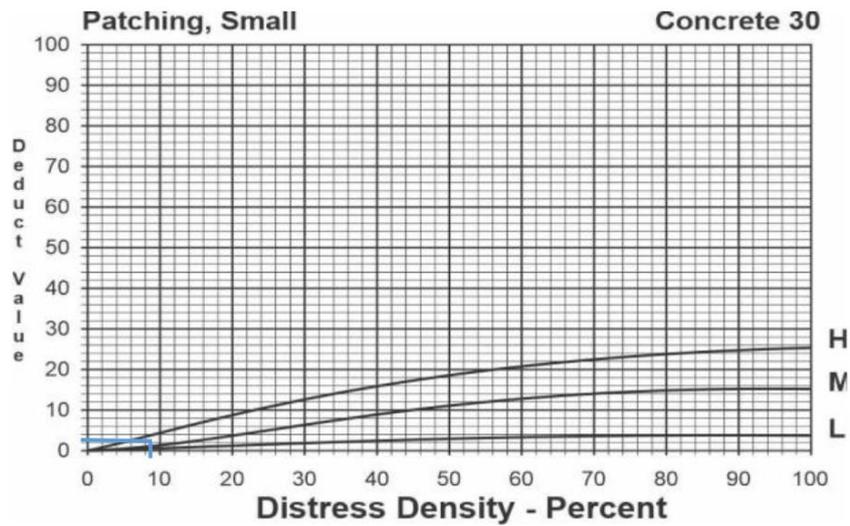
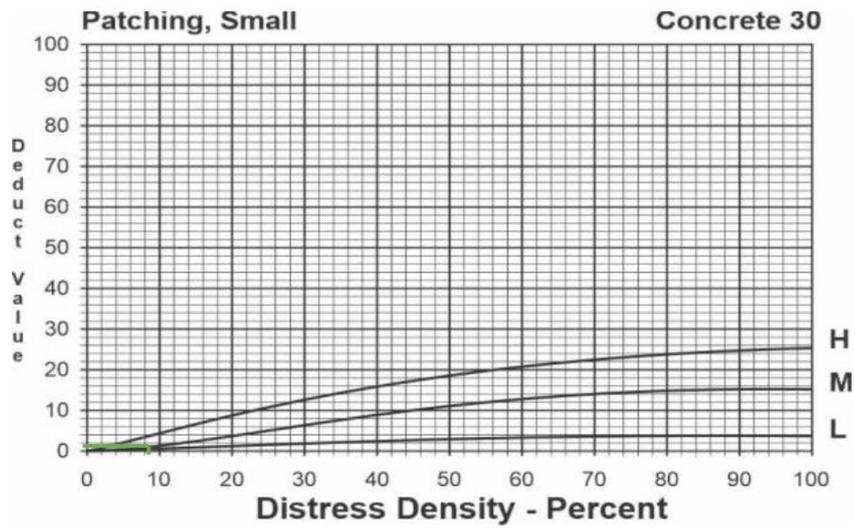
Joint seal damage is not rated by density. The severity of the distress is determined by the sealant's overall condition for a particular sample unit.

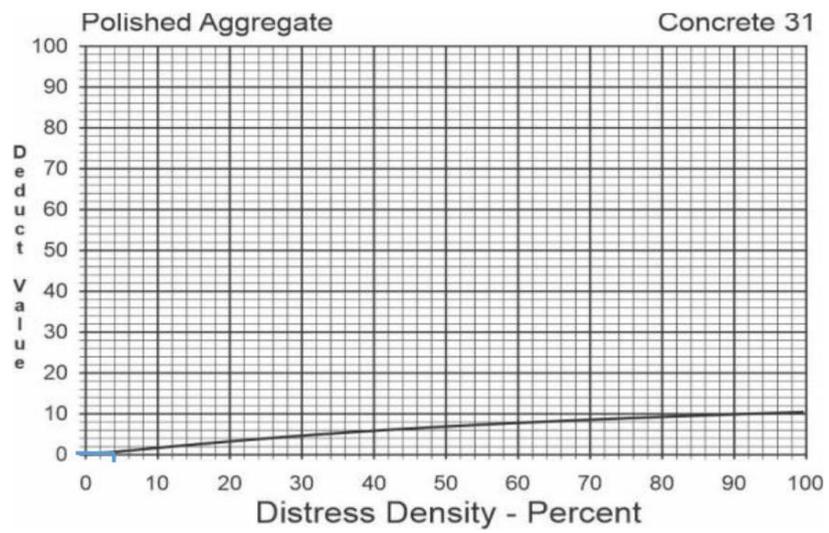
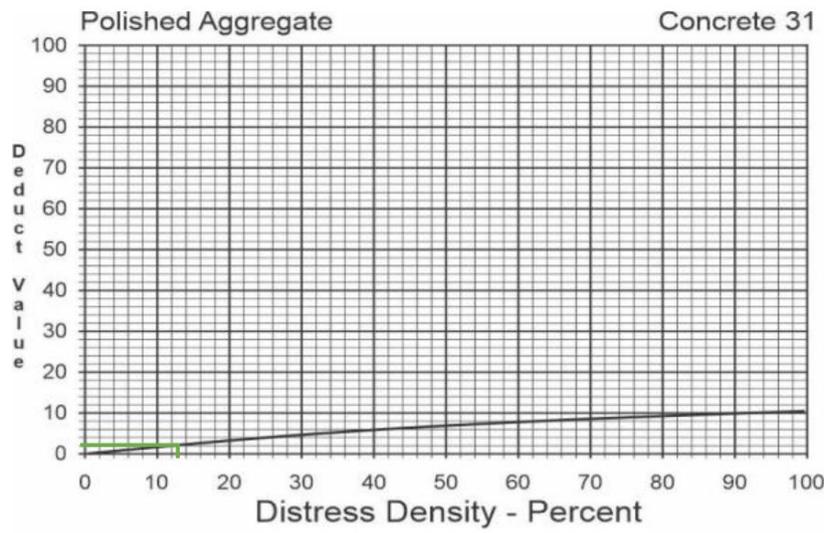
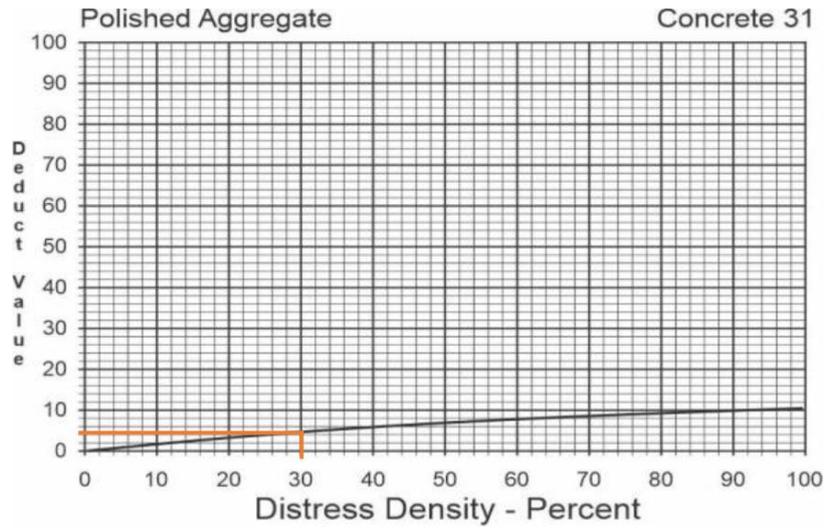
the deduct values for the threarlevels of severity are:

LOW	2 points
MEDIUM	4 points
HIGH	8 points









Fuente: Manual del PCI (2012)

## Memoria de Cálculo de la Densidad y el Valor Deducido corregido

### Memoria de Cálculo del Valor Deducido Corregido

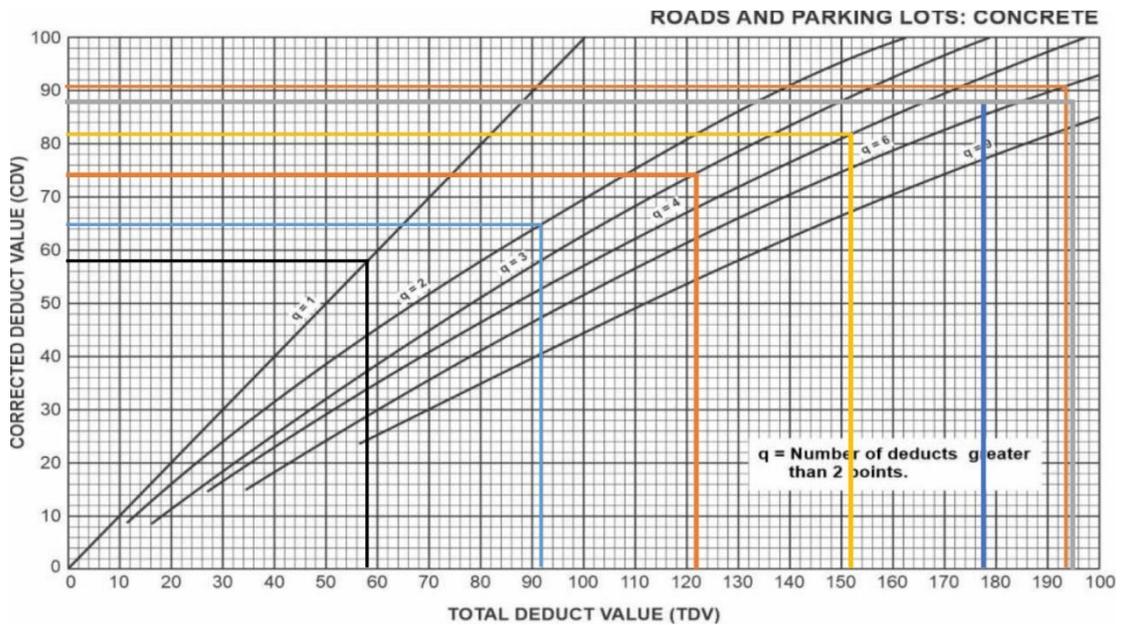
Tabla 51: Cálculo del máximo valor deducido (VDC)

N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	56	34	30	30	26	14	5,1	195,1	7	88
2	56	34	30	30	26	14	2	192	6	91
3	56	34	30	30	26	2		178	5	88
4	56	34	30	30	2			152	4	82
5	56	34	30	2				122	3	74
6	56	34	2					92	2	65
7	56	2						58	1	58

Max. VDC=91

PCI = 100-Max. VDC = 9

Figura 20: Cálculo del máximo valor deducido (VDC)



### Calificación de la Condición del Pavimento

Tabla 52: Calificación del PCI

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

**LA CALIFICACIÓN DEL PCI ES FALLADO**

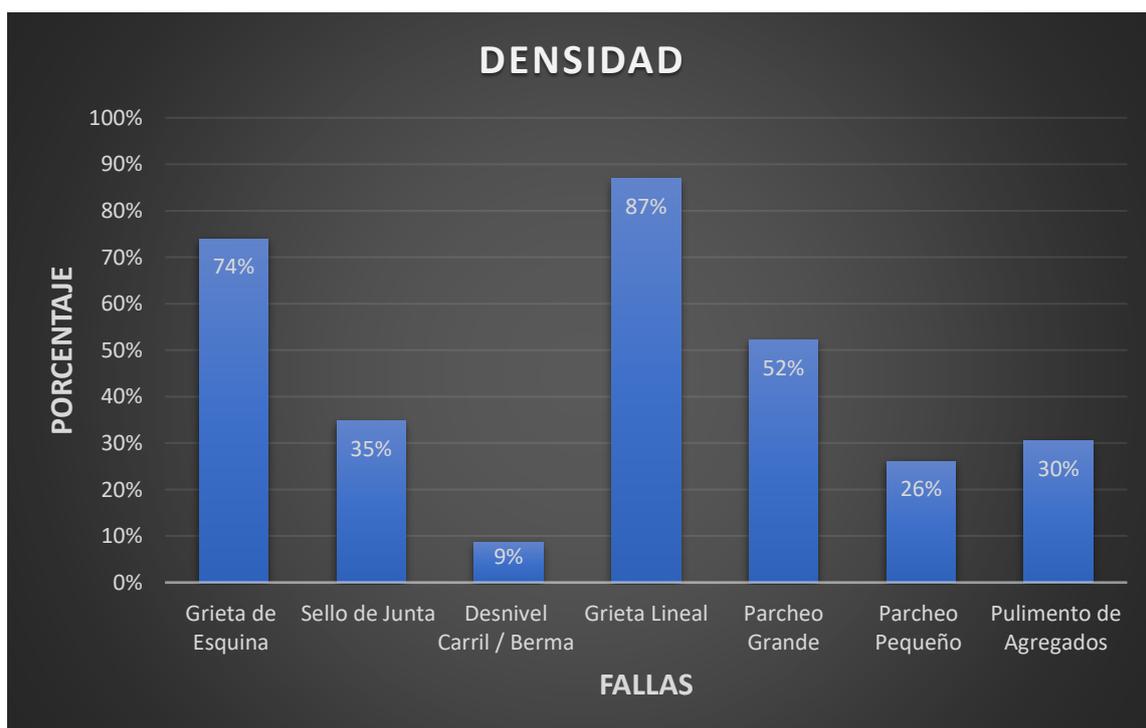


## Memoria de Cálculo de la Densidad y el Valor Deducido

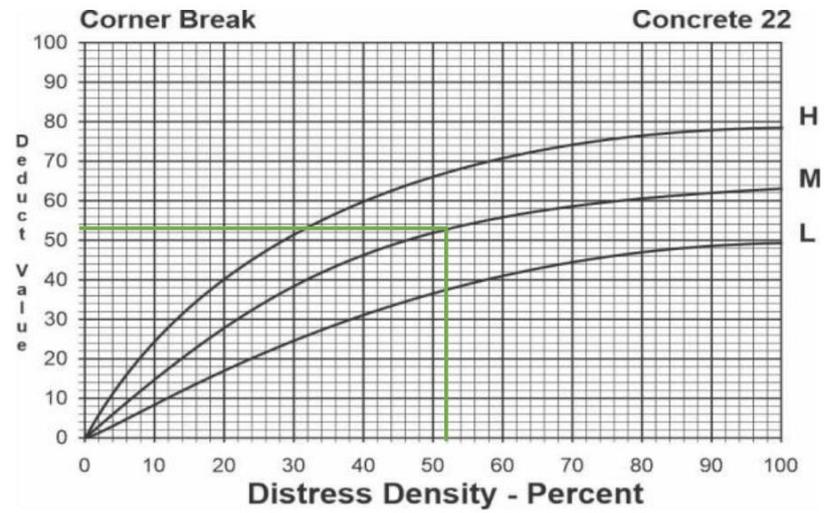
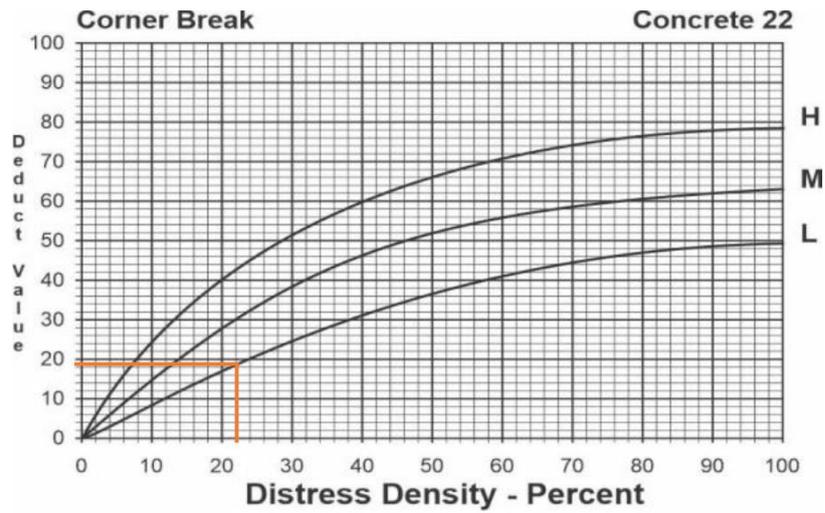
Tabla 54: Cálculo de la densidad y el valor deducido

UNIDAD 06		PAÑOS = 23		
DAÑO	SEVERIDAD	TOTAL	DENSIDAD	VALOR DEDUCIDO
22	L	1	4%	3
	M	14	61%	56
	H	3	13%	30
26	L	5	22%	2
	M	12	52%	4
	H	0	0%	0
27	L	0	0%	0
	M	1	4%	2
	H	3	13%	10
28	L	0	0%	0
	M	11	48%	26
	H	1	4%	8
29	L	8	35%	14
	M	10	43%	30
	H	0	0%	0
30	L	2	9%	0
	M	2	9%	1
	H	0	0%	0
31	L	7	30%	34
	M	3	13%	2
	H	1	4%	0

Fuente: Elaboración propia



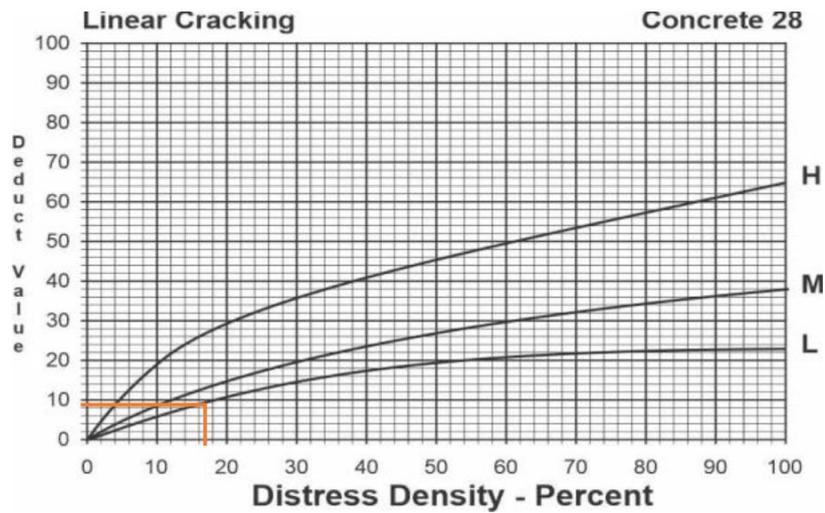
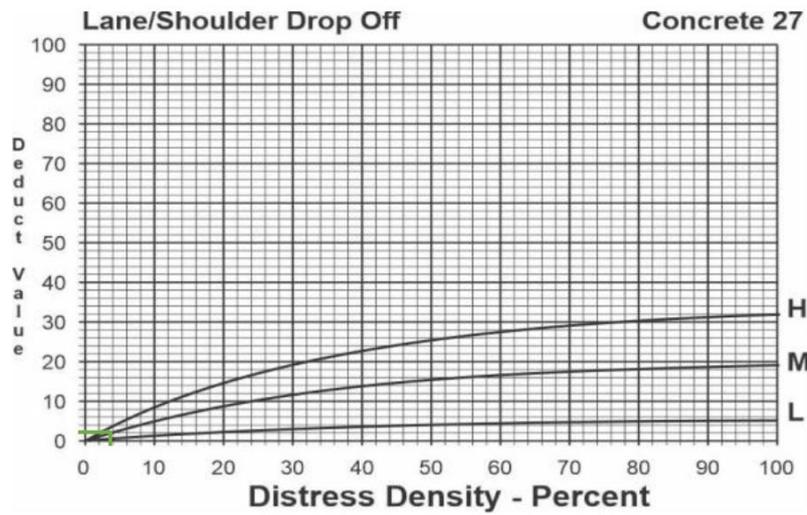
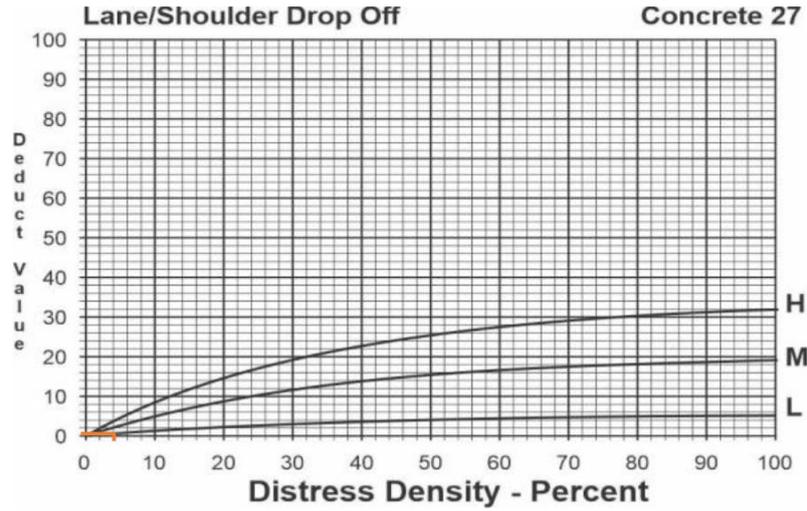
**Figura 21: Cálculo de valor deducido**

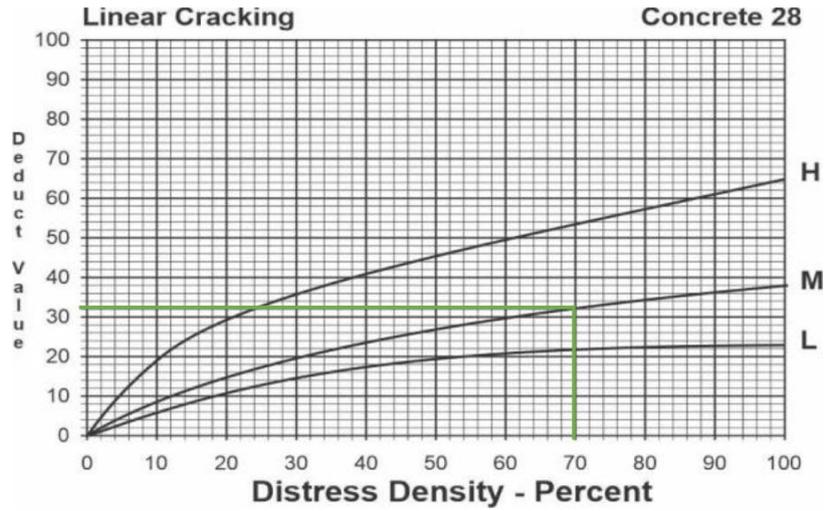


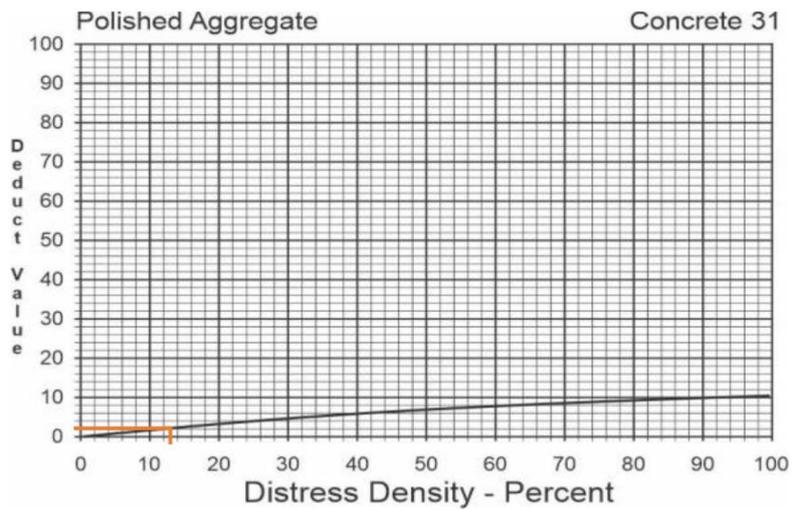
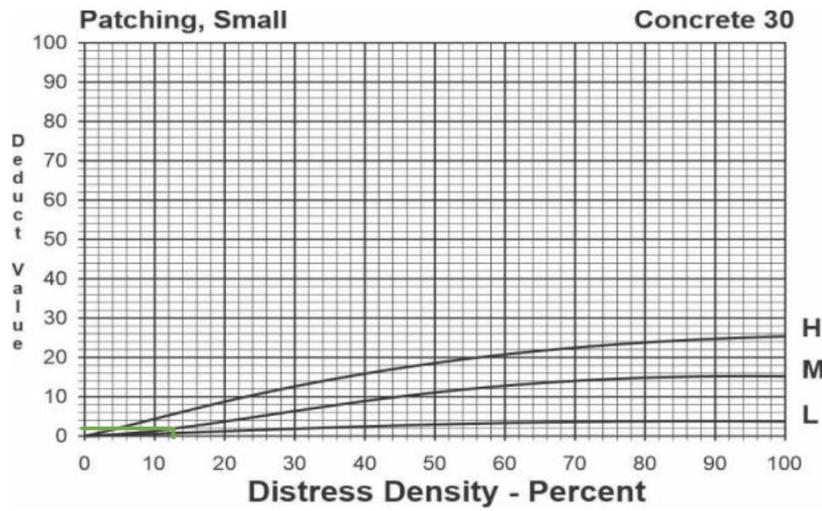
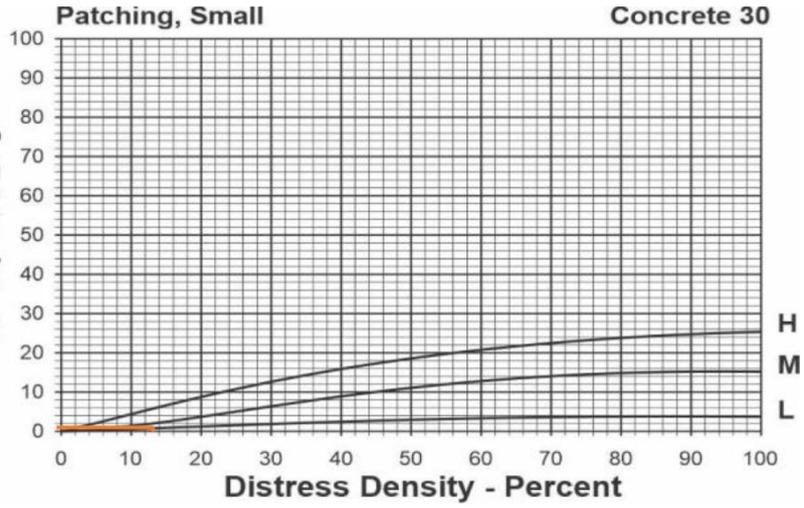
Joint seal damage is not rated by density. The severity of the distress is determined by the sealant's overall condition for a particular sample unit.

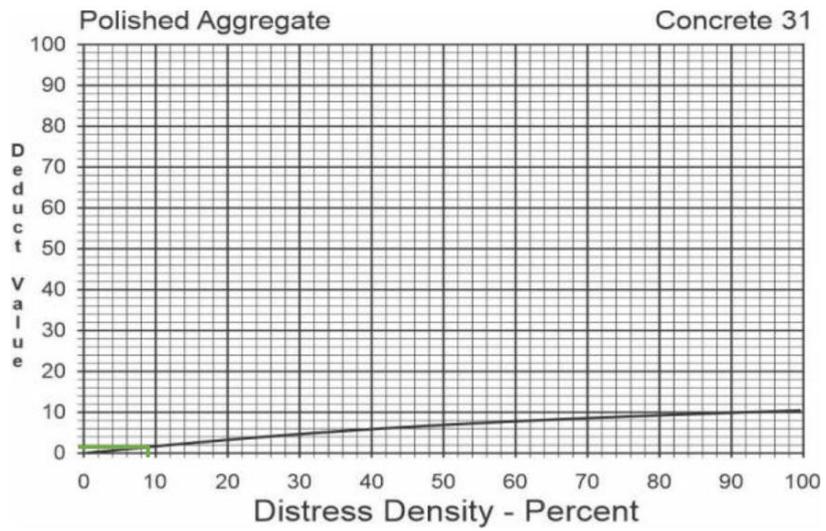
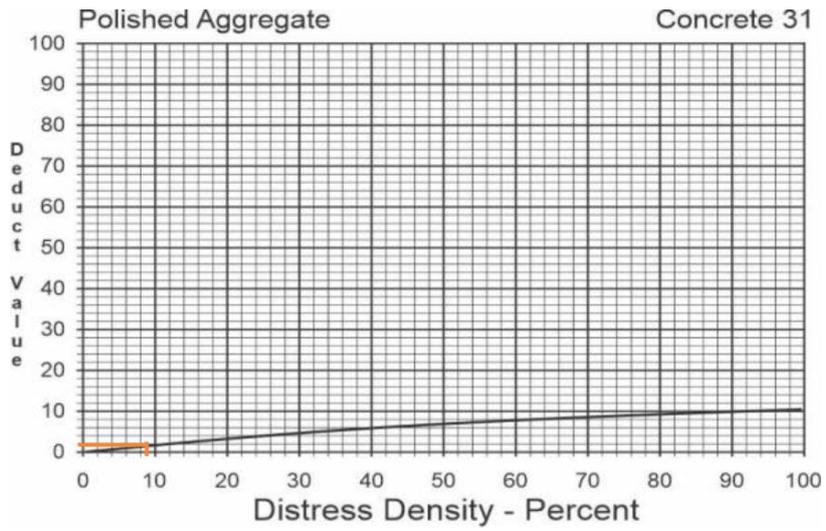
the deduct values for the threarlvels of severity are:

LOW	2 points
MEDIUM	4 points
HIGH	8 points









Fuente: Manual del PCI (2012)

## Memoria de Cálculo de la Densidad y el Valor Deducido corregido

### Memoria de Cálculo del Valor Deducido Corregido

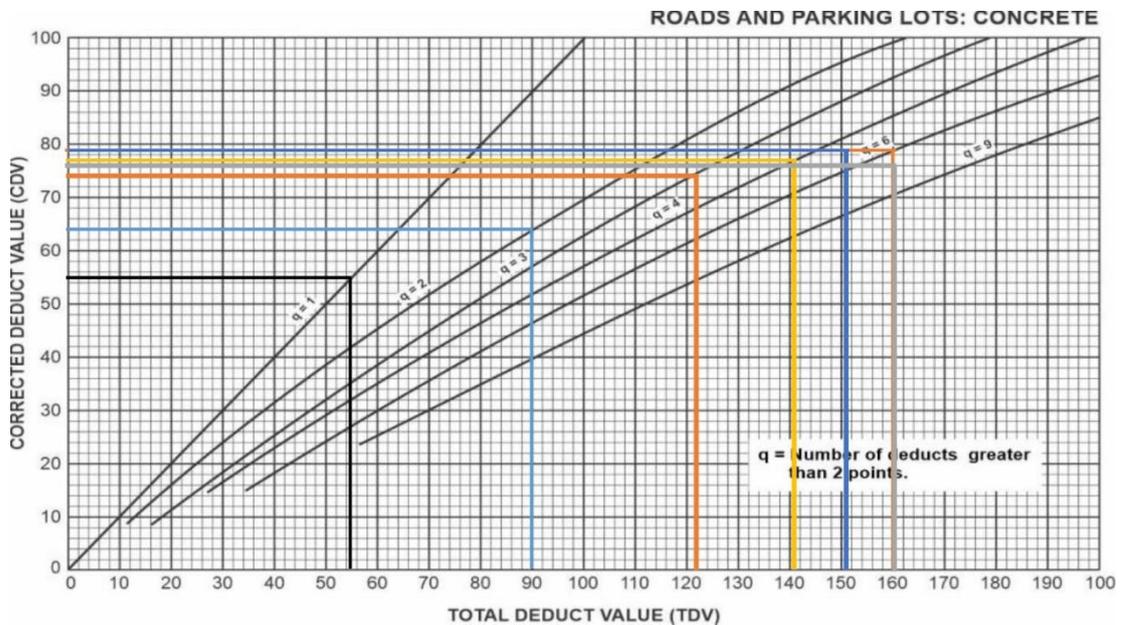
Tabla 55: Cálculo del máximo valor deducido (VDC)

N°	VALORES DEDUCIDOS							TOTAL	q	VDC
1	53	35	32	19	10	9	2,04	160,04	7	76
2	53	35	32	19	10	9	2	160	6	79
3	53	35	32	19	10	2		151	5	79
4	53	35	32	19	2			141	4	77
5	53	35	32	2				122	3	74
6	53	35	2					90	2	64
7	53	2						55	1	55

Max. VDC=79

PCI = 100-Max. VDC = 21

Figura 22: Cálculo del máximo valor deducido (VDC)



### Calificación de la Condición del Pavimento

Tabla 56: Calificación del PCI

Rango	Clasificación
100-85	Excelente
85-70	Muy Bueno
70-55	Bueno
55-40	Regular
40-25	Malo
25-10	Muy Malo
10-0	Fallado

**LA CALIFICACIÓN DEL PCI ES MUY MALO**

**Anexo 03:**  
**Evidencias fotográficas**



Foto Panorámica del Jr. Diego Ferrer de la ciudad de Huaraz





Foto de la Evaluación de las fallas del pavimento rígido



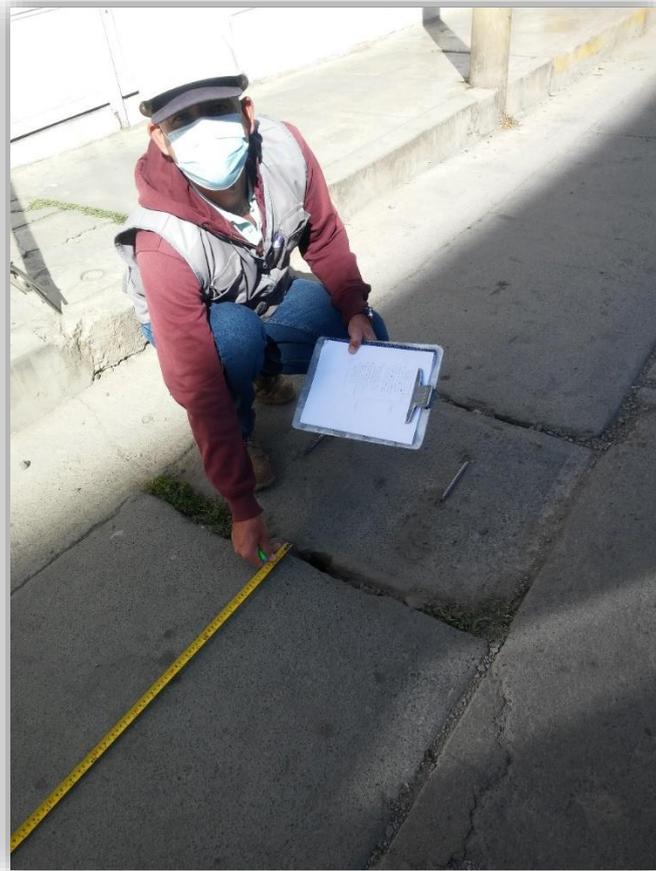


Foto de la Evaluación de las fallas del pavimento rígido



### Matriz de operacionalización de la variable

Variables	Dimensiones	Definición conceptual	Definición operacional	Indicadores	Escala de medición
Variable Independiente  Evaluación del pavimento RÍGIDO	El Índice de condición del pavimento RÍGIDO	Hernández et al. (2014). Trata a las variables con otros términos. El PCI es el método más complejo para evaluar y clasificar patologías de las carreteras y los pavimentos, el índice varía de 0 que es el estado malo al 100 que es el estado excelente, con la evaluación de las unidades de análisis conformada por paños o losas de pavimento rígido, la identificación de las patologías y la categorización según la metodología del PCI.	La variable fue evaluada mediante el método del Pavement Condition Index PCI, con la inspección u observación visual del pavimento, la identificación de las fallas o patologías, la categorización y determinación del estado actual del pavimento.	<ol style="list-style-type: none"> <li>1. Excelente</li> <li>2. Muy bueno</li> <li>3. Bueno</li> <li>4. Regular</li> <li>5. Malo</li> <li>6. Muy malo</li> <li>7. Fallado</li> </ol>	Razón por qué se miden variables cuantitativas. (Coronado. S.f).

### Matriz de consistencia

PROBLEMA PRINCIPAL	OBJETIVO GENERAL	HIPÓTESIS	VARIABLE	METODOLOGÍA
<p>¿Cuál es el estado actual del pavimento rígido del Jirón Diego Ferrer de la Ciudad de Huaraz?</p>	<p>Evaluar el pavimento rígido aplicando el método de Evaluación del pavimento rígido aplicando el PCI en el Jr. Diego Ferrer, Huaraz, Ancash</p>	<p>La evaluación superficial con el método PCI del Jr. Diego Ferrer, Huaraz, Ancash que permite conocer el estado actual del pavimento</p>	<p>Variable independiente Evaluación superficial con el método PCI del Jr. Diego Ferrer, Huaraz</p>	<p>Enfoque: cuantitativo Tipo: aplicada Diseño: experimental <b>Población y muestra</b> La población son las calles de la ciudad de Huaraz y la muestra se encuentra conformada por 280.8 ml del Jirón Diego Ferrer de la Ciudad de Huaraz</p>
	<p><b>Objetivos específicos</b></p>			
	<p>1. Determinar los diferentes tipos de fallas o patologías existentes en las cuadras del Jr. Diego Ferrer, Huaraz, Ancash.</p>			
	<p>2. Realizar una evaluación superficial de las fallas determinadas aplicando la metodología del PCI.</p>			
<p>3. Proponer alternativas de solución para las fallas encontradas mediante el método del PCI.</p>				