

**Geschwindigkeitskorrektur**

gem. RLS 90 Kap. 4.4.1.1.2 (Diagramm II)

| Geschwindigkeitsreduzierung auf:                                              |                                                                                                         |      |  |       |       |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------|--|-------|-------|
| V Pkw=                                                                        | 80                                                                                                      | km/h |  |       |       |
| V Lkw=                                                                        | 80                                                                                                      | km/h |  |       |       |
| Pt=                                                                           | 3,7                                                                                                     | %    |  |       |       |
| Pn=                                                                           | 4,6                                                                                                     | %    |  |       |       |
|                                                                               |                                                                                                         |      |  |       |       |
| L Pkw=                                                                        | $27,7+10 \cdot \text{LOG}(1+(0,02 \cdot B_3)^3)=$                                                       |      |  | 34,77 |       |
| L Lkw=                                                                        | $23,1+12,5 \cdot \log \cdot b_4=$                                                                       |      |  | 46,89 |       |
| D=                                                                            | $L \text{ Lkw} - L \text{ Pkw} =$                                                                       |      |  | 12,12 |       |
|                                                                               |                                                                                                         |      |  |       |       |
| Dvt=                                                                          | $L \text{ Pkw} - 37,3+10 \cdot \log((100+(10^{(0,1 \cdot e_{10})-1}) \cdot b_5)/(100+8,23 \cdot b_7))=$ |      |  | -1,74 | dB(A) |
| Dvn=                                                                          | $L \text{ Pkw} - 37,3+10 \cdot \log((100+(10^{(0,1 \cdot e_{10})-1}) \cdot b_6)/(100+8,23 \cdot b_8))=$ |      |  | -1,61 | dB(A) |
|                                                                               |                                                                                                         |      |  |       |       |
|                                                                               |                                                                                                         |      |  |       |       |
| Ausgangsgeschwindigkeit                                                       |                                                                                                         |      |  |       |       |
| V Pkw=                                                                        | 100                                                                                                     | km/h |  |       |       |
| V Lkw=                                                                        | 80                                                                                                      | km/h |  |       |       |
| Pt=                                                                           | 3,7                                                                                                     | %    |  |       |       |
| Pn=                                                                           | 4,6                                                                                                     | %    |  |       |       |
|                                                                               |                                                                                                         |      |  |       |       |
| L Pkw=                                                                        |                                                                                                         |      |  | 37,24 |       |
| L Lkw=                                                                        |                                                                                                         |      |  | 46,89 |       |
| D=                                                                            |                                                                                                         |      |  | 9,65  |       |
|                                                                               |                                                                                                         |      |  |       |       |
| Dvt=                                                                          | $E_{25}-37,3+10 \cdot \log((100+(10^{(0,1 \cdot e_{27})-1}) \cdot b_{22})/(100+8,23 \cdot b_{22}))=$    |      |  | -0,06 | dB(A) |
| Dvn=                                                                          | $E_{25}-37,3+10 \cdot \log((100+(10^{(0,1 \cdot e_{27})-1}) \cdot b_{23})/(100+8,23 \cdot b_{23}))=$    |      |  | -0,06 | dB(A) |
|                                                                               |                                                                                                         |      |  |       |       |
|                                                                               |                                                                                                         |      |  |       |       |
| Differenz Korrekturwert Ausgangsgeschwindigkeit - Geschwindigkeitsreduzierung |                                                                                                         |      |  |       |       |
|                                                                               |                                                                                                         |      |  |       |       |
| $\Delta \text{ Tag}$                                                          |                                                                                                         |      |  | 1,68  | dB(A) |
| $\Delta \text{ Nacht}$                                                        |                                                                                                         |      |  | 1,55  | dB(A) |

| Geschwindigkeitsreduzierung auf:                                              |                                                                            |      |  |       |       |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|------|--|-------|-------|
| V Pkw=                                                                        | 80                                                                         | km/h |  |       |       |
| V Lkw=                                                                        | 70                                                                         | km/h |  |       |       |
| Pt=                                                                           | 3,7                                                                        | %    |  |       |       |
| Pn=                                                                           | 4,6                                                                        | %    |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| L Pkw=                                                                        | $27,7+10*\text{LOG}(1+(0,02*B3)^3)=$                                       |      |  | 34,77 |       |
| L Lkw=                                                                        | $23,1+12,5*\log*b4=$                                                       |      |  | 46,16 |       |
| D=                                                                            | L Lkw - L Pkw =                                                            |      |  | 11,39 |       |
|                                                                               |                                                                            |      |  |       |       |
| Dvt=                                                                          | $L \text{ Pkw} - 37,3+10*\log((100+(10^{(0,1*e10)-1})^b5)/(100+8,23*b7))=$ |      |  | -2,00 | dB(A) |
| Dvn=                                                                          | $L \text{ Pkw} - 37,3+10*\log((100+(10^{(0,1*e10)-1})^b6)/(100+8,23*b8))=$ |      |  | -1,91 | dB(A) |
|                                                                               |                                                                            |      |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| Ausgangsgeschwindigkeit                                                       |                                                                            |      |  |       |       |
| V Pkw=                                                                        | 100                                                                        | km/h |  |       |       |
| V Lkw=                                                                        | 80                                                                         | km/h |  |       |       |
| Pt=                                                                           | 3,7                                                                        | %    |  |       |       |
| Pn=                                                                           | 4,6                                                                        | %    |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| L Pkw=                                                                        |                                                                            |      |  | 37,24 |       |
| L Lkw=                                                                        |                                                                            |      |  | 46,89 |       |
| D=                                                                            |                                                                            |      |  | 9,65  |       |
|                                                                               |                                                                            |      |  |       |       |
| Dvt=                                                                          | $E25-37,3+10*\log((100+(10^{(0,1*e27)-1})^b22)/(100+8,23*b22))=$           |      |  | -0,06 | dB(A) |
| Dvn=                                                                          | $E25-37,3+10*\log((100+(10^{(0,1*e27)-1})^b23)/(100+8,23*b23))=$           |      |  | -0,06 | dB(A) |
|                                                                               |                                                                            |      |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| Differenz Korrekturwert Ausgangsgeschwindigkeit - Geschwindigkeitsreduzierung |                                                                            |      |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| $\Delta \text{ Tag}$                                                          |                                                                            |      |  | 1,94  | dB(A) |
| $\Delta \text{ Nacht}$                                                        |                                                                            |      |  | 1,85  | dB(A) |

| Geschwindigkeitsreduzierung auf:                                              |                                                                            |      |  |       |       |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|------|--|-------|-------|
| V Pkw=                                                                        | 70                                                                         | km/h |  |       |       |
| V Lkw=                                                                        | 60                                                                         | km/h |  |       |       |
| Pt=                                                                           | 3,7                                                                        | %    |  |       |       |
| Pn=                                                                           | 4,6                                                                        | %    |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| L Pkw=                                                                        | $27,7+10*\text{LOG}(1+(0,02*B3)^3)=$                                       |      |  | 33,43 |       |
| L Lkw=                                                                        | $23,1+12,5*\log*b4=$                                                       |      |  | 45,33 |       |
| D=                                                                            | $L \text{ Lkw} - L \text{ Pkw} =$                                          |      |  | 11,89 |       |
|                                                                               |                                                                            |      |  |       |       |
| Dvt=                                                                          | $L \text{ Pkw} - 37,3+10*\log((100+(10^{(0,1*e10)-1})*b5)/(100+8,23*b7))=$ |      |  | -3,16 | dB(A) |
| Dvn=                                                                          | $L \text{ Pkw} - 37,3+10*\log((100+(10^{(0,1*e10)-1})*b6)/(100+8,23*b8))=$ |      |  | -3,05 | dB(A) |
|                                                                               |                                                                            |      |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| Ausgangsgeschwindigkeit                                                       |                                                                            |      |  |       |       |
| V Pkw=                                                                        | 100                                                                        | km/h |  |       |       |
| V Lkw=                                                                        | 80                                                                         | km/h |  |       |       |
| Pt=                                                                           | 3,7                                                                        | %    |  |       |       |
| Pn=                                                                           | 4,6                                                                        | %    |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| L Pkw=                                                                        |                                                                            |      |  | 37,24 |       |
| L Lkw=                                                                        |                                                                            |      |  | 46,89 |       |
| D=                                                                            |                                                                            |      |  | 9,65  |       |
|                                                                               |                                                                            |      |  |       |       |
| Dvt=                                                                          | $E25-37,3+10*\log((100+(10^{(0,1*e27)-1})*b22)/(100+8,23*b22))=$           |      |  | -0,06 | dB(A) |
| Dvn=                                                                          | $E25-37,3+10*\log((100+(10^{(0,1*e27)-1})*b23)/(100+8,23*b23))=$           |      |  | -0,06 | dB(A) |
|                                                                               |                                                                            |      |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| Differenz Korrekturwert Ausgangsgeschwindigkeit - Geschwindigkeitsreduzierung |                                                                            |      |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| $\Delta \text{ Tag}$                                                          |                                                                            |      |  | 3,10  | dB(A) |
| $\Delta \text{ Nacht}$                                                        |                                                                            |      |  | 2,99  | dB(A) |

| Geschwindigkeitsreduzierung auf:                                              |                                                                            |      |  |       |       |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|------|--|-------|-------|
| V Pkw=                                                                        | 60                                                                         | km/h |  |       |       |
| V Lkw=                                                                        | 60                                                                         | km/h |  |       |       |
| Pt=                                                                           | 3,7                                                                        | %    |  |       |       |
| Pn=                                                                           | 4,6                                                                        | %    |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| L Pkw=                                                                        | $27,7+10*\text{LOG}(1+(0,02*B3)^3)=$                                       |      |  | 32,06 |       |
| L Lkw=                                                                        | $23,1+12,5*\log*b4=$                                                       |      |  | 45,33 |       |
| D=                                                                            | L Lkw - L Pkw =                                                            |      |  | 13,27 |       |
|                                                                               |                                                                            |      |  |       |       |
| Dvt=                                                                          | $L \text{ Pkw} - 37,3+10*\log((100+(10^{(0,1*e10)-1})*b5)/(100+8,23*b7))=$ |      |  | -3,97 | dB(A) |
| Dvn=                                                                          | $L \text{ Pkw} - 37,3+10*\log((100+(10^{(0,1*e10)-1})*b6)/(100+8,23*b8))=$ |      |  | -3,78 | dB(A) |
|                                                                               |                                                                            |      |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| Ausgangsgeschwindigkeit                                                       |                                                                            |      |  |       |       |
| V Pkw=                                                                        | 100                                                                        | km/h |  |       |       |
| V Lkw=                                                                        | 80                                                                         | km/h |  |       |       |
| Pt=                                                                           | 3,7                                                                        | %    |  |       |       |
| Pn=                                                                           | 4,6                                                                        | %    |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| L Pkw=                                                                        |                                                                            |      |  | 37,24 |       |
| L Lkw=                                                                        |                                                                            |      |  | 46,89 |       |
| D=                                                                            |                                                                            |      |  | 9,65  |       |
|                                                                               |                                                                            |      |  |       |       |
| Dvt=                                                                          | $E25-37,3+10*\log((100+(10^{(0,1*e27)-1})*b22)/(100+8,23*b22))=$           |      |  | -0,06 | dB(A) |
| Dvn=                                                                          | $E25-37,3+10*\log((100+(10^{(0,1*e27)-1})*b23)/(100+8,23*b23))=$           |      |  | -0,06 | dB(A) |
|                                                                               |                                                                            |      |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| Differenz Korrekturwert Ausgangsgeschwindigkeit - Geschwindigkeitsreduzierung |                                                                            |      |  |       |       |
|                                                                               |                                                                            |      |  |       |       |
| Δ Tag                                                                         |                                                                            |      |  | 3,91  | dB(A) |
| Δ Nacht                                                                       |                                                                            |      |  | 3,72  | dB(A) |