

**STROP POROTHERM TL. 250 mm S TĚŽKOU PLOVOUCÍ PODLAHOU:**

| VRSTVA                     | TL         | $\rho$                | $m'$                  | $s'$                   |
|----------------------------|------------|-----------------------|-----------------------|------------------------|
|                            | [m]        | [kg.m <sup>-3</sup> ] | [kg.m <sup>-2</sup> ] | [MPa.m <sup>-1</sup> ] |
| dlažba + lepidlo           | 0,01       | 2000                  | 20                    | -                      |
| betonová mazanina          | 0,05       | 2200                  | 110                   | -                      |
| separační vrstva           | -          | -                     | -                     | -                      |
| pružná podložka - ISOVER N | 0,03       | -                     | -                     | 18                     |
| porotherm 250 mm + omítka  | 0,25+0,015 | -                     | 342                   | -                      |

| $R_{w, \text{strop}}$ | $f_0$ | $\Delta R_{w, \text{podlaha}}$ | $R_{w, \text{strop+podlaha}}$ | K    | $R'_{w, \text{strop+podlaha}}$ | $R'_{w,N} \text{ (byt/byt)}$ | posouzení  |
|-----------------------|-------|--------------------------------|-------------------------------|------|--------------------------------|------------------------------|------------|
| [dB]                  | [Hz]  | [dB]                           | [dB]                          | [dB] | [dB]                           | [dB]                         | ČSN 730532 |
|                       |       |                                |                               |      |                                |                              |            |

**STROP SPIROLL TL. 250 mm S TĚŽKOU PLOVOUCÍ PODLAHOU:**

| VRSTVA                     | TL         | $\rho$                | $m'$                  | $s'$                   |
|----------------------------|------------|-----------------------|-----------------------|------------------------|
|                            | [m]        | [kg.m <sup>-3</sup> ] | [kg.m <sup>-2</sup> ] | [MPa.m <sup>-1</sup> ] |
| dlažba + lepidlo           | 0,01       | 2000                  | 20                    | -                      |
| betonová mazanina          | 0,05       | 2200                  | 110                   | -                      |
| separační vrstva           | -          | -                     | -                     | -                      |
| pružná podložka - ISOVER N | 0,03       | -                     | -                     | 18                     |
| Spiroll 250 mm + omítka    | 0,25+0,015 | -                     | 300                   | -                      |

| $R_{w, \text{strop}}$ | $f_0$ | $\Delta R_{w, \text{podlaha}}$ | $R_{w, \text{strop+podlaha}}$ | K    | $R'_{w, \text{strop+podlaha}}$ | $R'_{w,N} \text{ (byt/byt)}$ | posouzení  |
|-----------------------|-------|--------------------------------|-------------------------------|------|--------------------------------|------------------------------|------------|
| [dB]                  | [Hz]  | [dB]                           | [dB]                          | [dB] | [dB]                           | [dB]                         | ČSN 730532 |
|                       |       |                                |                               |      |                                |                              |            |

**STROP ŽB TL. 250 mm S TĚŽKOU PLOVOUCÍ PODLAHOU:**

| VRSTVA                     | TL         | $\rho$                | $m'$                  | $s'$                   |
|----------------------------|------------|-----------------------|-----------------------|------------------------|
|                            | [m]        | [kg.m <sup>-3</sup> ] | [kg.m <sup>-2</sup> ] | [MPa.m <sup>-1</sup> ] |
| dlažba + lepidlo           | 0,01       | 2000                  | 20                    | -                      |
| betonová mazanina          | 0,05       | 2200                  | 110                   | -                      |
| separační vrstva           | -          | -                     | -                     | -                      |
| pružná podložka - ISOVER N | 0,03       | -                     | -                     | 18                     |
| ŽB deska 250 mm + omítka   | 0,25+0,015 | 2500                  | 662,5                 | -                      |

| $R_{w, \text{strop}}$ | $f_0$ | $\Delta R_{w, \text{podlaha}}$ | $R_{w, \text{strop+podlaha}}$ | K    | $R'_{w, \text{strop+podlaha}}$ | $R'_{w,N} \text{ (byt/byt)}$ | posouzení  |
|-----------------------|-------|--------------------------------|-------------------------------|------|--------------------------------|------------------------------|------------|
| [dB]                  | [Hz]  | [dB]                           | [dB]                          | [dB] | [dB]                           | [dB]                         | ČSN 730532 |
|                       |       |                                |                               |      |                                |                              |            |

**STROP POROTHERM TL. 250 mm S TĚŽKOU PLOVOUCÍ PODLAHOU:**

| VRSTVA                     | TL         | $\rho$                | $m'$                  | $s'$                   |
|----------------------------|------------|-----------------------|-----------------------|------------------------|
|                            | [m]        | [kg.m <sup>-3</sup> ] | [kg.m <sup>-2</sup> ] | [MPa.m <sup>-1</sup> ] |
| dlažba + lepidlo           | 0,01       | 2000                  | 20                    | -                      |
| betonová mazanina          | 0,05       | 2200                  | 110                   | -                      |
| separační vrstva           | -          | -                     | -                     | -                      |
| pružná podložka - ISOVER N | 0,03       | -                     | -                     | 18                     |
| porotherm 250 mm + omítka  | 0,25+0,015 | -                     | 342                   | -                      |

|                 |                          |                         |      |                          |                        |            |
|-----------------|--------------------------|-------------------------|------|--------------------------|------------------------|------------|
| $L_{nw, strop}$ | $\Delta L_{nw, podlaha}$ | $L_{nw, strop+podlaha}$ | K    | $L'_{nw, strop+podlaha}$ | $L'_{nw, N}$ (byt/byt) | posouzení  |
| [dB]            | [dB]                     | [dB]                    | [dB] | [dB]                     | [dB]                   | ČSN 730532 |
|                 |                          |                         |      |                          |                        |            |

**STROP SPIROLL TL. 250 mm S TĚŽKOU PLOVOUCÍ PODLAHOU:**

| VRSTVA                     | TL         | $\rho$                | $m'$                  | $s'$                   |
|----------------------------|------------|-----------------------|-----------------------|------------------------|
|                            | [m]        | [kg.m <sup>-3</sup> ] | [kg.m <sup>-2</sup> ] | [MPa.m <sup>-1</sup> ] |
| dlažba + lepidlo           | 0,01       | 2000                  | 20                    | -                      |
| betonová mazanina          | 0,05       | 2200                  | 110                   | -                      |
| separační vrstva           | -          | -                     | -                     | -                      |
| pružná podložka - ISOVER N | 0,03       | -                     | -                     | 18                     |
| Spiroll 250 mm + omítka    | 0,25+0,015 | -                     | 300                   | -                      |

|                 |                          |                         |      |                          |                        |            |
|-----------------|--------------------------|-------------------------|------|--------------------------|------------------------|------------|
| $L_{nw, strop}$ | $\Delta L_{nw, podlaha}$ | $L_{nw, strop+podlaha}$ | K    | $L'_{nw, strop+podlaha}$ | $L'_{nw, N}$ (byt/byt) | posouzení  |
| [dB]            | [dB]                     | [dB]                    | [dB] | [dB]                     | [dB]                   | ČSN 730532 |
|                 |                          |                         |      |                          |                        |            |

**STROP ŽB TL. 250 mm S TĚŽKOU PLOVOUCÍ PODLAHOU:**

| VRSTVA                     | TL         | $\rho$                | $m'$                  | $s'$                   |
|----------------------------|------------|-----------------------|-----------------------|------------------------|
|                            | [m]        | [kg.m <sup>-3</sup> ] | [kg.m <sup>-2</sup> ] | [MPa.m <sup>-1</sup> ] |
| dlažba + lepidlo           | 0,01       | 2000                  | 20                    | -                      |
| betonová mazanina          | 0,05       | 2200                  | 110                   | -                      |
| separační vrstva           | -          | -                     | -                     | -                      |
| pružná podložka - ISOVER N | 0,03       | -                     | -                     | 18                     |
| ŽB deska 250 mm + omítka   | 0,25+0,015 | 2500                  | 662,5                 | -                      |

|                 |                          |                         |      |                          |                        |            |
|-----------------|--------------------------|-------------------------|------|--------------------------|------------------------|------------|
| $L_{nw, strop}$ | $\Delta L_{nw, podlaha}$ | $L_{nw, strop+podlaha}$ | K    | $L'_{nw, strop+podlaha}$ | $L'_{nw, N}$ (byt/byt) | posouzení  |
| [dB]            | [dB]                     | [dB]                    | [dB] | [dB]                     | [dB]                   | ČSN 730532 |
|                 |                          |                         |      |                          |                        |            |

**STĚNA POROTHERM 30 AKU SYM, 300 mm:**

| VRSTVA                     | TL          | $R_{w, \text{ stěna }}$ | K    | $R'_{w, \text{ stěna }}$ | $R'_{w,N} \text{ (byt/byt)}$ | posouzení  |
|----------------------------|-------------|-------------------------|------|--------------------------|------------------------------|------------|
|                            | [m]         | [dB]                    | [dB] | [dB]                     | [dB]                         | ČSN 730532 |
| Porotherm 30 AKU SYM + om. | 0,3+2x0,015 |                         |      |                          |                              |            |

**STĚNA YTONG P6-650, 300 mm:**

| VRSTVA             | TL         | $R_{w, \text{ stěna }}$ | K    | $R'_{w, \text{ stěna }}$ | $R'_{w,N} \text{ (byt/byt)}$ | posouzení  |
|--------------------|------------|-------------------------|------|--------------------------|------------------------------|------------|
|                    | [m]        | [dB]                    | [dB] | [dB]                     | [dB]                         | ČSN 730532 |
| Ytong P6-650 + om. | 0,3+2x0,01 |                         |      |                          |                              |            |

**STĚNA YTONG P6-650, 300 mm + PŘEDSTĚNA ZE SDK, TL. 15 mm :**

| $m_1'$ (stěna)        | $m_2'$ (sdk)          | d min | d návrh | $f_0$ | $\Delta R_{w, \text{ předstěna }}$ |
|-----------------------|-----------------------|-------|---------|-------|------------------------------------|
| [kg.m <sup>-2</sup> ] | [kg.m <sup>-2</sup> ] | [dB]  | [dB]    | [Hz]  | [dB]                               |
|                       |                       |       |         |       |                                    |

| $R_{w, \text{ stěna+předstěna }}$ | K    | $R'_{w, \text{ stěna+předstěna }}$ | $R'_{w,N} \text{ (byt/byt)}$ | posouzení  |
|-----------------------------------|------|------------------------------------|------------------------------|------------|
| [dB]                              | [dB] | [dB]                               | [dB]                         | ČSN 730532 |
|                                   |      |                                    |                              |            |

**STĚNA ŽB 300 mm:**

| VRSTVA             | TL         | $\rho$                | $m'$                  | $R_{w, \text{ stěna }}$ |
|--------------------|------------|-----------------------|-----------------------|-------------------------|
|                    | [m]        | [kg.m <sup>-3</sup> ] | [kg.m <sup>-2</sup> ] | [dB]                    |
| ŽB stěna 300 + om. | 0,3+2x0,01 | 2500                  | 800                   |                         |

| K    | $R'_{w, \text{ stěna }}$ | $R'_{w,N} \text{ (byt/byt)}$ | posouzení  |
|------|--------------------------|------------------------------|------------|
| [dB] | [dB]                     | [dB]                         | ČSN 730532 |
|      |                          |                              |            |