

# STC Ratings

## Wood Stud Assemblies

### STC ratings of wall assemblies insulated with **NU-WOOL** WALLSEAL® Insulation.

Testing done with full scale assemblies at Riverbank Acoustical Laboratories. Some walls extrapolated from other data.

The diagrams and stated STC ratings listed below are intended to serve as a guide. Construction practices have an influence on final STC ratings. Nu-Wool® Company, Inc. cannot guarantee actual STC ratings. Flanking sound patterns, the integrity of the wall, and floor and ceiling construction are important factors in effective sound control.

### Nu-Wool proprietary firewall designs

- |           |   |  |
|-----------|---|--|
| <b>63</b> | <b>U382:</b> Staggered wood studs 16" o.c.; double layer 5/8" type "C" gypsum board each side; WALLSEAL® 3-1/2" thick                         |  |
| <b>58</b> | <b>U382:</b> Staggered wood studs 16" o.c.; double layer 5/8" type "C" gypsum board one side, single layer other side; WALLSEAL® 3-1/2" thick |  |
| <b>53</b> | <b>U382:</b> Staggered wood studs 16" o.c.; single layer 5/8" type "C" gypsum board each side; WALLSEAL® 3-1/2" thick                         |  |
| <b>58</b> | <b>U369:</b> Staggered wood studs 16" o.c.; double layer 5/8" type "x" gypsum board one side, single layer other side; WALLSEAL® 3-1/2" thick |  |
| <b>51</b> | <b>U360:</b> Staggered wood studs 16" o.c.; single layer 5/8" type "x" gypsum board each side and between studs; WALLSEAL® 3-1/2" thick       |  |

For more information, contact the technical department of Nu-Wool® Company, Inc. at 1-800-748-0128.



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### STC ratings for common wall assemblies

- |           |   |  |
|-----------|---|--|
| <b>66</b> | Double wood studs 16" o.c.; double layer 1/2" type "x" gypsum board each side; WALLSEAL® one side 3-1/2" thick.                                   |  |
| <b>62</b> | Double wood studs 16" o.c.; double layer 1/2" gypsum board one side, single layer other side; both cavities WALLSEAL® to thickness.               |  |
| <b>61</b> | Double wood studs 16" o.c.; single layer 1/2" gypsum board each side; both cavities WALLSEAL® to thickness.                                       |  |
| <b>59</b> | Double wood studs 16" o.c.; double layer 1/2" type "x" gypsum board one side, single layer other side; WALLSEAL® one side 3-1/2" thick.           |  |
| <b>58</b> | Double wood studs 16" o.c.; single layer 1/2" type "x" gypsum board each side; WALLSEAL® one side 3-1/2" thick.                                   |  |
| <b>58</b> | Double wood studs 16" o.c.; single layer 5/8" type "x" gypsum board each side; WALLSEAL® one side 3-1/2" thick.                                   |  |
| <b>58</b> | Single wood studs 16" o.c.; resilient channel one side; double layer 1/2" type "x" gypsum board each side; WALLSEAL® 3-1/2" thick.                |  |
| <b>56</b> | Staggered wood studs 24" o.c.; double layer 5/8" type "x" gypsum board each side; WALLSEAL® one side 3 1/2" thick.                                |  |
| <b>54</b> | Staggered wood studs 24" o.c.; double layer 5/8" type "x" gypsum board one side, single layer other side; WALLSEAL® one side 3-1/2" thick.        |  |
| <b>54</b> | Single wood studs 16" o.c.; resilient channel; single layer 5/8" type "x" gypsum board one side, double layer other side; WALLSEAL® 3-1/2" thick. |  |
| <b>53</b> | Staggered wood studs 16" o.c.; single layer 1/2" gypsum board each side; both cavities WALLSEAL® to thickness.                                    |  |
| <b>52</b> | Staggered wood studs, 16" o.c.; single layer 5/8" type "x" gypsum board each side; WALLSEAL® one side 3-1/2" thick.                               |  |
| <b>51</b> | Single wood studs 16" o.c.; resilient channel one side; single layer 5/8" type "x" gypsum board each side; WALLSEAL® 3-1/2" thick.                |  |
| <b>48</b> | Single wood studs 16" o.c.; resilient channel one side; single layer 1/2" type "x" gypsum board each side; WALLSEAL® 3-1/2" thick.                |  |
| <b>47</b> | Single wood studs 16" o.c.; double layer 1/2" type "x" gypsum board each side, WALLSEAL® 3-1/2" thick.  |  |
| <b>45</b> | Single wood studs 16" o.c.; single layer 5/8" type "x" gypsum board each side; WALLSEAL® 3-1/2" thick.  |  |
| <b>42</b> | Single wood studs 16" o.c.; double layer 1/2" gypsum board one side, single layer 1/2" gypsum board other side; WALLSEAL® 3-1/2" thick.           |  |
| <b>41</b> | Single wood studs 16" o.c.; single layer 1/2" type "x" gypsum board each side; WALLSEAL® 3-1/2" thick   |  |