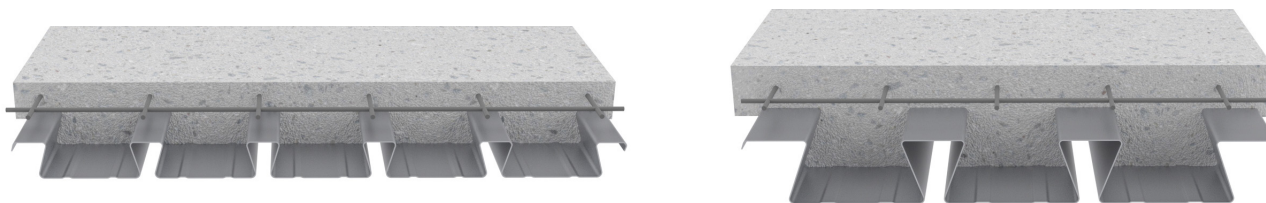


NEXT GENERATION DOVETAIL FORMLOK® DECK-SLABS UL FIRE RATED ASSEMBLIES

USE UL RECOGNIZED VULCRAFT NEXT GENERATION 2" AND 3½" DEEP DOVETAIL FORMLOK COMPOSITE DECK FOR YOUR FIRE RATED ASSEMBLIES



2.0DS-30 FL & 2.0DF-30 FL UL Fire Resistance Ratings^{1,2}

Restrained Assembly Rating (hr)	UL Design No.	Concrete Topping Thickness (in.) based on Unit Weight (pcf)			Minimum Reinforcement ³	Minimum Beam or Joist	Unrestrained Assembly Rating ⁴ (hr)
		LW	SLW	NW			
		112	130	147			
1	D904 or D961	2	---	2¾ ⁵	6x6-6/6 SWG	W8x28, W10x29	¾
2		2½	3	3¼			1
3		3¼	4	4¾			1½
		107-113	130	147-153			
1	D917	2	---	2¾ ⁵	6x6-6/6 SWG	W10x29	¾
2		2½	3	3¼			
3		3¼	4	4¾			
		107-113	130	147-153			
1	D928	2	---	2¾ ⁵	6x6-6/6 SWG	W10x29	¾
2		2½	3	3¼			1
3		3¼	4	4¾			

3.5DS-24 FL & 3.5DF-24 FL UL Fire Resistance Ratings^{1,2}

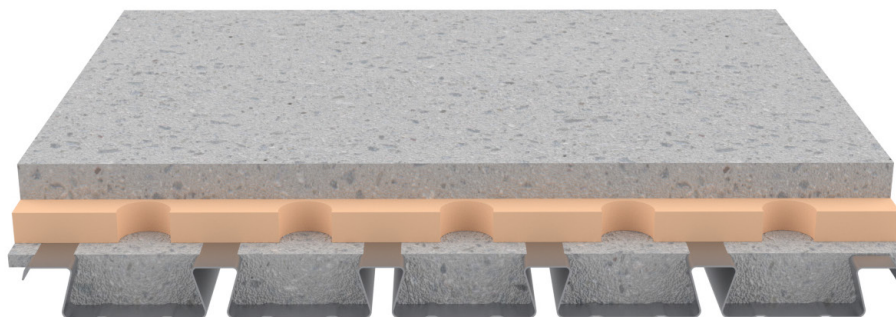
Restrained Assembly Rating (hr)	UL Design No.	Concrete Topping Thickness (in.) based on Unit Weight (pcf)		Minimum Reinforcement ³	Minimum Beam or Joist	Unrestrained Assembly Rating ⁴ (hr)
		LW	NW			
		107-113	147-153			
1½	D947, D964, or D984	2	2			
2		2	2¼	6x6-W1.4xW1.4	W8x28, W10x29	¾
3		2¼	3¾			1½
2	D506	2	2¼	6x6-W1.4xW1.4	W6X9	1

Notes:

1. Steel deck is exposed and does not require SFRM. See the UL design for thickness of SFRM on beams.
2. Dramix® fibers may be used in UL or ULC fire rated assemblies in lieu of WWR. See UL file R13907 for additional information.
3. See specific UL fire-resistance rated assembly for span limitations and construction details.
4. Restrained Assembly Rating is 1½ hr with listed NW concrete thickness.

NEXT GENERATION DOVETAIL ROOF DECK UL FIRE RATED ASSEMBLIES

USE UL RECOGNIZED VULCRAFT NEXT GENERATION 2" AND 3½" DEEP DOVETAIL ROOF DECK FOR YOUR FIRE RATED ASSEMBLIES



2.0DS-30, 2.0DF-30, 3.5DS-24 and 3.5DF-24 UL Fire Resistance Ratings

Restrained Assembly Rating (hr.)	UL Design No.	Unrestrained Assembly Rating (hr.)	Support Type	Fire Protection	Deck Depth	
					2"	3.5"
1, 1½, or 2	P908	0, 1½, or 2	Beams: W6x16, W8x10, W8x18 or W8x28 min., Joists: 10K1, 12J4, 14K4, or 16K3 min., Joist Girders: 20 in. min. depth and 13 lb/lin ft min. weight	Insulating Concrete	✓	✓
1, 1½, or 2	P921	0	Beams: W6x16 or W8x10, Joists: 12K5 or heavier may be used as secondary support, Joist Girders: 20 in. min. depth and 13 lb/lin ft min. weight	Insulating Concrete	✓	✓
1, 1½, or 2	P937	0	Beams: W8x28 min., Joists: 10K1 min.	Insulating Concrete	✓	✓
1, 1½, or 2	P938	0, 1½, or 2	Beams: W6x16, W8x10, W8x18 or W8x28 min., Joists: 10K1, 12J4, 14K4, or 16K3 min., Joist Girders: 20 in. min. depth and 13 lb/lin ft min. weight	Insulating Concrete	✓	✓

Notes:

1. See specific UL fire-resistance rated assembly for span limitations and construction details.

NOTICE: Design defects that could cause injury or death may result from relying on the information in this document without independent verification by a qualified professional. The information in this document is provided "AS IS". Nucor Corporation and its affiliates expressly disclaim: (i) any and all representations, warranties and conditions and (ii) all liability arising out of or related to this document and the information in it.