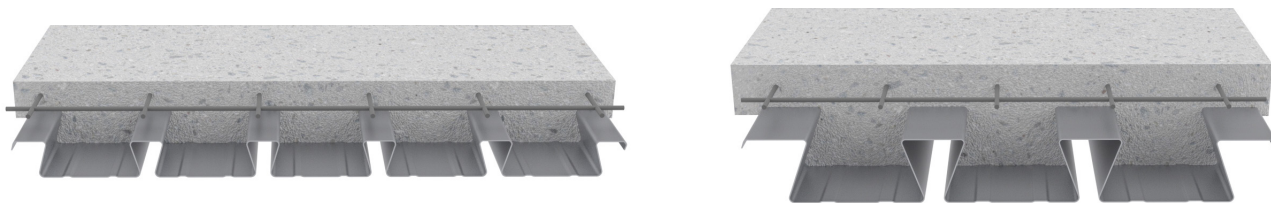


NEXT GENERATION DOVETAIL FORMLOK® DECK-SLABS

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}

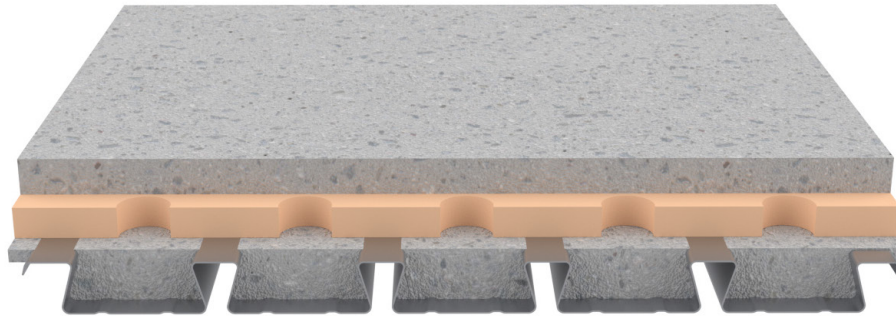
Restrained Assembly Rating (hr)	UL Design No.	Concrete Topping Thickness (in.) based on Unit Weight (pcf)		Minimum Reinforcement ³	Minimum Beam or Joist	Unrestrained Assembly Rating ⁴ (hr)
		LW	NW			
		107-113	147-153			
1½	D947, D964, or D984	2	2			
2		2	2¼	6x6-W1.4xW1.4	W8x28, W10x29	¾
3		2¼	3¾			1½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

Notes:

1. All Dovetail FormLok composite deck assemblies are subject to an upper live load limit of 130 psf.
2. Steel deck is exposed and does not require SFRM. See the UL design for thickness of SFRM on beams.
3. Dramix® fibers may be used in UL or ULC fire rated assemblies in lieu of WWR. See UL file R13907 for additional information.
4. See specific UL fire-resistance rated assembly for span limitations and construction details.
5. 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.